
PRODUCT CATALOGUE

EMERGI-LITE®

A full range of emergency lighting solutions



Emergi-Lite[®]
Expertise, reliability,
and innovation

Emergi-Lite[®] is a
leading provider of
high-performance life
safety equipment.

Table of contents

	Page
Introduction	
Company Profile	2-3
MR16 LED Emergency Lighting	4-5
Nexus® Management System	6-7
Exit and Pictogram signs	
Table of contents	9
Introduction	10-11
EDE Series	12-13
EX30 Series	14-15
EAE Series	16
NEW EAEC Series	17
NEW CM-Edge Series	18
ED Series	20-21
EA Series	22-23
EA Triangular Series	24
LPEX50 Series	26-27
C8SR50 Series	28-29
EAC Series	30-31
LPEX50-P Series	32-33
C8SR50-P Series	34-35
ES Series	36
NEW CM-SS Series	37
EX10 Series	38-39
C8SR10 Series	40
C8ES10 & C8SE10 Series	41
C8ES70 & C8SE70 Series	42-43
ESC Series	44-45
EX10-P & LPEX10-P Series	46-47
SR Series	48
NEW ESC-BLD Series	49
NEW CM-SC Series	50
EP Series	51
Premier™ Series	52-53
Premier™ Picto Combo Series	54-55
Premier™ Exit Combo Series	56-57
CMPS-E Series	58
CMPC-E Series	59
EN10 Series	60-61
Survive-All™ EN Series	62-63
Survive-All™ LPEX600 Series	64-65
Survive-All™ ENC Series	66-67
Survive-All™ LPEX600-N Series	68-69
EH Series	70-71
LPEXHZ Series	72-73
EHC Series	74-75

	Page
Exit and Pictogram signs (continued)	
EXHZ Series	76-77
NEW EX Series	78-79
LPEX-XP Series	80-81
C8SRXP Series	82-83
NEW EXP LED "Picto" Series	84-85
NEW EXP LED "Exit" Series	86-87
NEW EXP LED "Sortie" Series	88-89
ET Series	90
Pendant Kit	91
Special Wording	92
Glossary	93
Battery units	
Table of contents	95
Introduction	96-97
NEW ERAU Series	98-99
NEW EBL Series	100
Provider™ Series	101
Lux-Ray™ LED Series	102-103
Retract-a-Lite™ Series	104-105
Mini Retract-a-Lite™ Series	106-107
Premier™ Series	108-109
MPRE Series	110-111
DEL Series	112-113
ESLT Series	114-115
NEW CMPB-E Series	116
NEW ECB-HO Series	117
NEW JMLC-BLD Series	118
NEW CM-SB Series	119
JMLC Series	120-121
JMC Series	122-123
JMLA Series	124-125
ESL Series	126-127
ESL HP Series	128-129
Distinction™ Series	130-131
Survive-All™ NXM Series	132-133
EHP Series	134-135
NEW EHZ Series	136-137
ESLNX Series	138-139
HZM Series	140-141
IPE-LEDN Series	142
Glossary	143

NEW = New product

	Page
Remote fixtures	
Table of contents	145
Introduction	146
NEW ERAUR Series	148-149
NEW ERL Series	150
Lux-Ray™ LED Series	152-153
Literay Series	154
Retract-a-Lite™ Series	155
Mini Retract-a-Lite™ Series	156-157
EF26/EF26D/EF26DS Series	158
Distinction™ Surface Designer Series	159
Distinction™ EFR Series	160
EF9M Series	161
NEW EF9-BLD Series	162
NEW CM-R Series	163
EF40 & EF40P Series	164
Survive-All™ EF39 & EF39P Series	165
EHPRL Series	166-167
EF41 Series	168
EHZRL Series	169
NEW EFXPR LED Series	170-171
Central systems	
Table of contents	173
Mini-Inverter Series	174-175
What are Emex Central Systems?	176-177
IPS Single Phase Series	178-179
IPS Three Phase Series	180-181
System Options	182
User Interface & Display Functions	183
Central System Request Data Form	184
Options & accessories	
Table of contents	187
EZ2™ Canopy	188
Wire Guards and Mounting Shelves	190-191
ZCB Series	192-193
NEW Nexus®RF	194
NEW Nexus®Pro	195
Technical information	
Table of contents	197
Wire Size Guide	198
Battery Unit Capacity Chart	199
Electrical Code	201-201
Building Code	202-205
Fire & Generator Room Code	206-207
Product Index	208

Partner with Emergi-Lite® for expertise, reliability, and innovation

As a part of ABB, Emergi-Lite® emergency lighting products and services are specifically designed to provide the utmost protection and safety.

We are continuously enhancing our products to meet the evolving needs of our customers by investing in the latest manufacturing technologies as well as developing solutions that maximize efficiency and customer satisfaction. We have also invested in IoT platforms for our emergency lighting that will build a foundation for our future ecosystems taking building safety to the next level.



Emergency lighting experts

Our mechanical, electrical and software engineering teams work together to create unparalleled products through research and innovation. The entire operations team is centralized for maximum collaboration from initial design to final assembly and testing.

Product reliability and efficiency

Quality, safety, ease of installation, and long-term reliability are designed into each product. Our products go through rigorous testing while meeting quality and performance standards at every step of the process from design to production to fulfillment.

Manufacturing Center of Excellence

Most of our life safety equipment is designed, manufactured and distributed from our North American facility located in Montreal, Quebec. With over 150 people on our manufacturing team, we have complete control over lead time, service, and quality.



Bringing peace of mind through reliable safety solutions.

Fast delivery

No need to wait for a large production run or overseas shipment, we produce each product in-house. Our manufacturing capabilities include plastic components, metal binding, circuit boards, and final assembly, including small inverters. We produce precisely what we need without waiting for a large production run or overseas shipment.



Fuelled by the creativity, innovation and commitment of every employee, the Emergi-Lite® facility is a Centre of Excellence in emergency lighting.



Since 2001, the Emergi-Lite® manufacturing facility has been ISO 9001 compliant.

Always at your service

Our customer service team is dedicated to ensuring satisfaction. With comprehensive engineering, manufacturing, and testing resources available at our Center of Excellence, we are committed to providing solutions.



The AOI (automated optical inspection) machine added to our printed circuit board operation is one of the first of its kind in use in North America.



High output MR16 LED

Emergency lighting

MR16 LED Illumination

Light-emitting diode (LED) is becoming the preferred solution in lighting applications. The emergency lighting industry is no exception. Today, virtually every new product introduced to the market includes “white light” LEDs for emergency illumination. Extremely efficient and long-lasting, LED lamps become natural alternatives to incandescent lamps due to three main advantages:

- **Lamp efficacy:** 50–100 lumens per watt compared to 15–30 lumens per watt of the best halogen lamp. Allowing for smaller batteries and units and/or remote capacity
- **Operational life:** 30,000+ hours, equivalent to a lifetime warranty in emergency lighting.
- **Lower lamp temperature:** 80–120°C (176–248°F) is a huge benefit for lighting in hazardous locations.

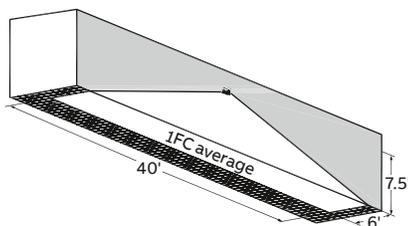
MR16 LED lamp benefits

- CSA C22.2 No. 141 certified.
- Reduces total cost of ownership, uses fewer fixtures due to superior illumination, thus reducing installations costs and future maintenance of the entire system.
- UL-recognized components.
- Available for standard battery voltages 6V, 12V, and 24V as well as 120V operation.
- Energy-efficient LED MR16 lamp provides equivalent lighting performance to a much higher watt halogen MR16 lamp.
- Reduces required battery capacity by 75%, for battery units and remote heads.
- Small profile, compact white lighting is ideal for architectural applications.
- Vibration-resistant LED stands up to industrial environments.
- Ideal for indoor and outdoor use.



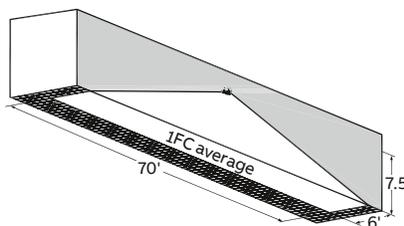
200-220-Lumen 4W MR16 LED

Leading the technology trend, we offer a complete series of 4W MR16 LED lamps available for all the standard battery voltages: 6V, 12V, 24V and 120V. With a luminous flux of typically 200 to 220 lumens, they are available with most emergency heads designed to hold an MR16 lamp and meet the majority of illumination specifications.



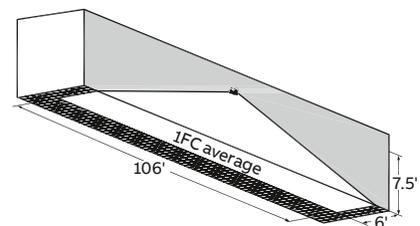
340-Lumen 5W MR16 LED

Keeping pace with technology, in 2012 we introduced a 12V-5W MR16 LED lamp. With a typical luminous flux of 340 lumens, the 12V-5W MR16 LED lamp has the same lighting performance as a 20W high-output halogen MR16. 6V-5W MR16 has been introduced in January 2020. A twin emergency head installed at a height of 7.5ft illuminates 70ft path of egress 70ft.



540-590 Lumen 6W MR16 LED

A 6W MR16 LED lamp delivers up to 590 lumens for an average spacing in emergency lighting of 106 feet with an efficacy of 98.3 Lm/w, it is over 6 times the efficacy of an MR16 35W halogen with a similar light output. This lamp can deliver the highest linear foot of illumination per watt on a path of egress (spacing in ft/watt) 8.83ft compared to 1.37ft for an MR16 35W.



Highly efficient LEDs provide many cost-saving benefits

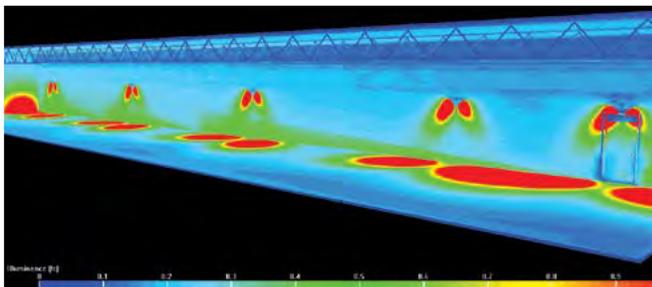
Case study: Fewer MR16 LED units required

Emergency lighting units with MR16 LED lamps provide the same illumination at floor level using significantly fewer units.

- Reduced installation costs due to reduced product and labour requirements.
- Reduced energy costs keeping fewer batteries charged at full capacity to be ready to respond to an emergency at any time.
- Reduced maintenance and testing costs with fewer units to maintain and test in the Emergency Lighting System.
- Reduced lamp replacement costs as LED lamps have a 30,000+ hour lamp life compared to only a few hundred hours typical with incandescent lamps.
- Reduced Environmental Impact, fewer product materials, fewer batteries, less transportation, less packaging, less labour and less waste.

Compare

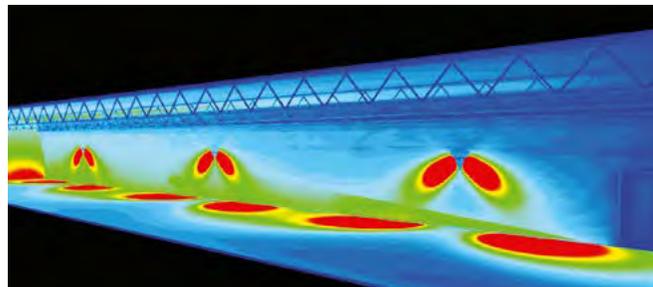
Where the building code requires a minimum of 1 foot-candle and a minimum of 0.1 foot-candle at floor level along the path of egress on a 150' x 9' x 9' corridor with an egress door at one end, a 150' x 6' path of egress, and a 7.5' unit mounting height.



4W MR16 LED lamps

Same standard emergency lighting units 4W MR16 LED lamps

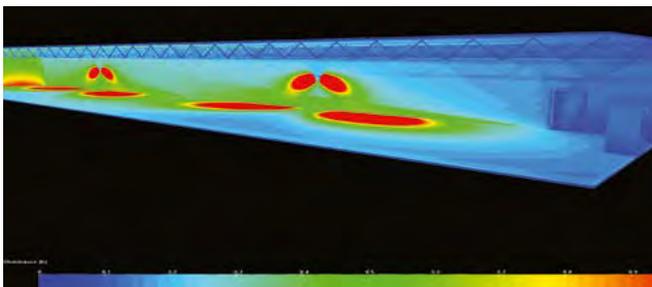
Lamp suffix	Voltage	Wattage	Average lumen
LA	6	4	200
LG	12	4	220
LL	24	4	220
LW	120	4	235
LV	120	4	204



5W MR16 LED lamps

Same standard emergency lighting units 5W MR16 LED lamps

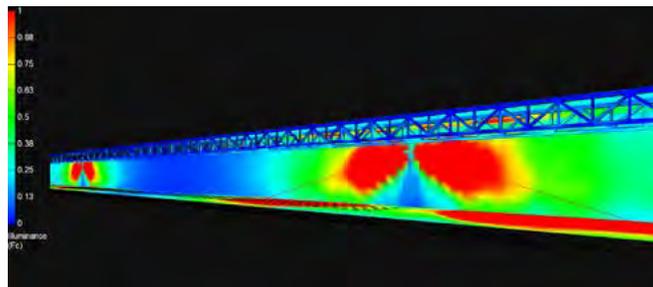
Lamp suffix	Voltage	Wattage	Lumens
LB	6	5	415
LI	12	5	340



6W MR16 LED lamps

Same standard emergency lighting units 6W MR16 LED lamps

Lamp suffix	Voltage	Wattage	Lumens
LJ	12	6	540
LM	24	6	590



6W, 10W and 15W MR16 LED lamps

Same standard emergency lighting units 6W, 10W and 15W MR16 LED lamps

Lamp suffix	Voltage	Wattage	Lumens
L6	12, 24	6	565
L10	12, 24	10	1030
L15	12, 24	15	1320

Nexus®

Emergency lighting monitoring system

Building and Life Safety Codes oblige building owners/managers to ensure the safe evacuation of a building in the event of an emergency.

— 01 Nexus® is a proven system supported by a 5-year warranty, and can contribute to LEED certification and support green building initiatives.

Are you prepared for an emergency?

As with most safety equipment, emergency lighting is not fully appreciated until they are needed. In the interest of public safety, it is imperative to routinely monitor and test emergency lighting to ensure they are fully functional and provide adequate lighting to illuminate the path of egress and guidance to safety. Building owners or managers must meet the outlined requirements for exit signs and emergency lighting equipment, including the following:

- Conduct a functional test every month
- Conduct functional tests annually
- Keep a logbook of maintenance information

Complying with these requirements can be labour-intensive and costly, especially in large buildings where every emergency fixture needs to be tested manually.

Manage testing with Nexus® to save time and costs

Nexus® is a real-time monitoring system that manages the status of your entire emergency lighting system from a central control unit. Nexus® runs diagnostics, performs required monthly and annual functional tests, generate maintenance logs and runs compliance reports. Available in wired or wireless versions, Nexus® helps increase system reliability and performance while reducing the risk of failed inspections. With Nexus®, monthly tests and reports on the status of all emergency lights can be done individually or in groups.

Maximize system availability

By allowing maintenance personnel to easily maintain and monitor an emergency lighting system without having to manually check each unit, Nexus® reduces the hours required to disrupt the power supply for inspections. Nexus® also saves time and operational costs by indicating the location of a faulty unit and reports it instantly without requiring a manual search.

Update status instantly

Nexus® works by communicating with the emergency units and a centrally located controller. Messages are passed between the unit and the controller to instruct them to perform all mandatory testing and for continuous monitoring.



— 01

One building or a group of properties under the same management can be monitored with Nexus®.

Small system example

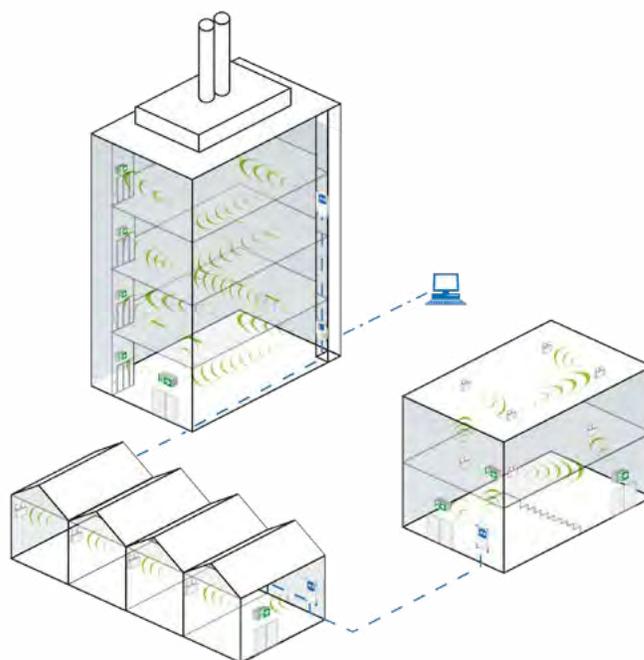
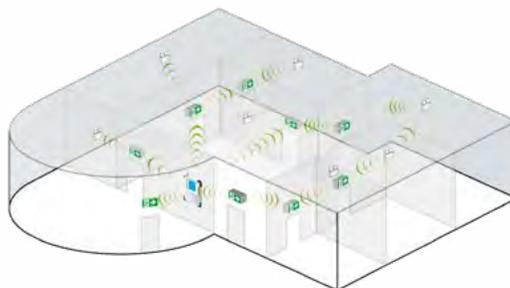
In a system with 100 units or less, it is likely that the only hardware required, besides emergency units, is a controller. All communication would occur wirelessly, and installation is as easy in a non-monitored system.

Building sizing does not restrict Nexus®. The system's flexibility enables different configurations and layouts to be built based on customer needs without a problem as each unit needs to be able to communicate with its neighbouring units and does not need to communicate directly with the controller.

Large system example

The Nexus® RF system has been designed to be extremely flexible and provides for a range of system options. Each large site will need to be assessed for the best system solution with the assistance of ABB technical staff. The basic Nexus® RF system is designed to run on an Ethernet network which is present in most modern buildings.

Site performance will be optimized through the careful selection and router placement to form efficient clusters. Building layout and materials will also play some role in determining the best solution to deliver a highly effective means of testing and maintenance requirements.





Exit & pictogram signs



Table of contents

Exit & pictogram signs

							
Introduction	EDE Series	EX30 Series	EAE Series	EAEC Series	CM-Edge Series	ED Series	EA Series
10	12	14	16	17	18	20	22
							
EA Triangular Series	LPEX50 Series	C8SR50 Series	EAC Series	LPEX50-P Series	C8SR50-P Series	ES Series	CM-SS Series
24	26	28	30	32	34	36	37
							
EX10 Series	C8SR10 Series	C8ES10 & C8SE10 Series	C8ES70 & C8SE70 Series	ESC Series	EX10-P & LPEX10-P Series	SR Series	ESC-BLD Series
38	40	41	42	44	46	48	49
							
CM-SC Series	EP Series	Premier™ Series	Premier™ Picto Combo Series	Premier™ Exit Combo Series	CMPS-E Series	CMPC-E Series	EN10 Series
50	51	52	54	56	58	59	60
							
Survive-All™ EN Series	Survive-All™ LPEX600 Series	Survive-All™ ENC Series	Survive-All™ LPEX600-N Series	EH Series	LPEXHZ Series	EHC Series	EXHZ Series
62	64	66	68	70	72	74	76
							
EX Series	LPEX-XP Series	C8SRXP Series	EXP-LED Picto Series	EXP-LED Exit Series	EXP-LED Sortie Series	ET Series	Pendant Kit
78	80	82	84	86	88	90	91
							
						Special Wording	Glossary
						92	93

 = New product

Exit & pictogram signs overview

Electrical Signs (connected to a source of power) differ from battery units as they must always be illuminated during normal AC operation, and not only upon loss of AC power. This has a direct impact on the acceptable energy consumption referenced in government regulations (National Resources Canada NRCan, CSA C22.2 No. 141), which is a maximum of 5W per legend single or double face.

A legend is defined as a single word, either “SORTIE” or “EXIT” or “PICTOGRAM” There are also bilingual exit signs with: “SORTIE EXIT” or “EXIT SORTIE”, quite common in applications such as airports or federal buildings. A bilingual exit sign is acceptable up to a maximum of 10W. The legend must also meet visibility standards including dimensions, average brightness, uniformity, background contrast ratio. The most popular light source is based upon solid-state LED technology, which is capable of meeting both lumen output and energy efficiency requirements.

Back-lit and edge-lit exit signs

Two different methods are used to illuminate the legend. The most common is found in back-lit signs, which use a light source located behind the legend, illuminated through a diffuser panel. The other method uses a clear, white or mirrored acrylic face panel on which the legend is etched or silkscreened. The light source is installed in the top portion of the panel. Light is transmitted from the top edge of the panel, which is where the “Edge-Lit” Sign gets its name from. In general, back-lit Signs are more economical and provide a more uniform illumination of the legend. On the other hand, acrylic Edge-Lit Signs are considered more high-end, elegant fixtures.

Battery, remote, AC and other power sources

Three types of fixtures are available for emergency lighting applications. The first type is the Self-Powered Sign, with a rechargeable battery for emergency mode operation. Next is the Remote Sign or AC/DC Sign: in addition to a normal AC power supply, it includes a DC input (6VDC, 12VDC, etc.) for remote power supplied by a separate battery backup. Installation of such Signs requires DC wiring between both fixtures. Finally, the AC-only Signs are for applications where emergency power is supplied from an AC Central System. A variation on Sign design uses photo-luminescent materials for the legend (letters and/or background).

According to the National Building Code, photo-luminescent signs must be continuously illuminated by a dedicated light source connected to an emergency power supply.

In addition to electrical Signs, there are power free, self-luminous signs that incorporate radioactive materials such as tritium gas as a light source. Their brightness level is very low, which is 2-3% of the minimum level required for an electrical sign. However, they are safer and easier to install in hazardous/explosion-proof environments such as coal mines, natural gas installations, etc. As these signs are not electrical signs, they are not subject to CSA standards such as C22.2 No. 141.

Combination units

The combination unit or “combo”, includes both a small battery-powered Emergency Lighting unit and an AC/DC Sign. An economical and easy to install alternative (installs to a single electrical box), the combo offers both a Sign indicating the direction of egress as well as emergency lighting on the path of egress.

Explosion-proof environment signs

The CSA C860 standard applies to all Signs, and in all applications with no exceptions. Compliance is required in all cases, even if a solution may be hard to find. For example, equipment for use in hazardous locations, such as areas classified under Class I, Division 1 (or Class I, Zones 0 and 1), defined as locations where flammable gases, vapors or liquids are present frequently or under normal operating conditions.

Required luminaires are designed specifically to meet CSA standards for explosion-proof equipment. Heavy-duty luminaires are rated for lamp wattages ranging from 50-250W. Constructed of die-cast aluminum, the units feature a resistant prismatic glass globe providing hemispherical light distribution. Until now, because of these characteristics, traditional Signs were using 15-25W incandescent lamps to provide sufficient illumination of the legend. Conversely, an LED Sign is typically rectangular and

We provide products that are designed for performance, reliability and cost efficiency by using innovative technology and extensive industry expertise.

relatively thin (4-8cm) with an axial light source consisting of a line of LEDs to provide indirect illumination of the legend through multiple reflections. So, how is it possible to develop an LED Sign that meets NRCan/C22.2 No. 141 using a bulky heavy-duty luminaire dedicated to hazardous locations Class I, Division 1?

We developed a special LED lamp series that is easy to install in the lamp base of explosion-proof type luminaires.

This special LED lamp consumes less than 5W in either AC or DC of high-performance LEDs configured in a unique pattern. Horizontal distribution is 360 degrees radially and vertical distribution is directly focused on the sign legend.

This innovative design meets the visibility criteria on standard size legends while limiting power consumption to between 3 to 4.7W per sign.

LED lamps are dedicated to various voltage ratings: 6V, 12V, 24V or 120V and operate on DC and AC, supplying power to the Sign from emergency lighting unit equipment or central AC or DC systems. Lamps are listed/certified CSA C-US to CSA T.I.L. B-69 and UL1993 standards for LED technology-based lamps or lamps with integral ballast. This further reinforces the assurance of performance and safety of the Signs using these lamps. The new Sign series includes fixtures designed for installation in all hazardous location classifications: Class I Divisions 1 and 2, Groups A, B, C, and D; Class II Divisions 1 and 2, Groups E, F, and G; Class III Divisions 1 and 2. Those specialized in industrial lighting can rest assured that they can specify certified hazardous location equipment also approved and compliant with NRCan/CSA C22.2 No. 141 standards. The new technology also significantly improves the maintained light output of the LED by utilizing materials that operate at lower temperatures than the previous generation of LEDs.

White LEDs

Following the requirements of the National Building Code, the new generation of exit signs has replaced the text legend (EXIT, SORTIE) with a pictogram legend featuring a green running silhouette on a white illuminated background.

Consequently, the legend is now illuminated by white LEDs, which replace the traditional monochrome red or green LEDs.

White LEDs are increasingly being used in the lighting industry. Their operational life is defined by industry standards like LM80, as the time elapsed until the LED luminous flux decreases to 70% of the initial value (life definition: L70). Following the minimum requirements of the LM80 standard, LED manufacturers usually test their products for 6,000 hours (little longer than 8 months) and then predict the total operational life based on statistical methods and extrapolation. The LED chip is based on a compound of three elements: Indium, Gallium, and Nitrogen (InGaN) and generates a monochrome light wave of royal-blue color. The white light emission is obtained by covering the chip with a layer containing mainly phosphor and three other elements: Yttrium, Aluminum, and Garnet silicate minerals (YAG). The InGaN-YAG technology has an estimated operational life of minimum of 50,000 hours before the light output decreases to 70% of the initial level.

Furthermore, the LEDs are powered by an ABB patented electronic circuit for constant direct current (CDC), specially designed to drive the LEDs for extended operational life.

To validate the design: in-house LED life tests commenced early in 2009, one year ahead of the adoption of the pictogram exit sign by the National Building Code. Data collected for 45,000 hours (five years+) of continuous operation indicate that LED light depreciation is less than 5% of the initial levels in 2009. This enables us to raise the statistical prediction of our LED life to at least 90,000 hours (over 10 years) of continuous operation to the L70 level.

The outstanding test results with the InGaN-YAG technology and patented LED drivers have allowed us to manufacture pictogram signs with maintained lighting performance. By design, the initial luminance levels of the legend exceed by 50% to 100% the minimum requirements of standard CSA C22.2 No.141-15. So, even after 10 years of continuous use, the projected luminance levels of the pictogram legend will still be compliant with the CSA standard of visibility.

EDE Series

Die-cast aluminum pictogram edge-lit sign



Features

- Self-powered models provide minimum 120 minutes of emergency lighting
- Die-cast aluminum construction
- Modular design offers great choice of architectural profiles
- Universal die-cast back-box for surface or semi-recessed mounting on ceilings or walls
- LED strip module can be rotated in the unit for either wall or ceiling mount
- Flat die-cast trim plate and galvanized steel back-box for recessed ceiling mount
- Clear acrylic panel with pictogram legend
- Comes standard with double-face panels for use in single-face and double-face applications
- White LED light source
- Universal AC input: two-wire 120 to 347VAC; universal DC input: two-wire 6 to 24VDC
- Energy efficient – consumes less than 2.5W in AC and DC-remote modes
- Meets or exceeds CSA 22.2 No.141-15
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® EDE Series** of die-cast pictogram edge-lit signs.

When specified for surface mount, the unit shall come standard with a trim plate, trim ring, back box and canopy made of die-cast aluminum with _____ finish. The trim plate shall have a _____ profile and allow for wall or ceiling mount installation. The trim ring shall allow for semi-recessed installation in walls or ceilings with cavity. The canopy shall allow for wall, end, or ceiling mount.

When specified for recessed ceiling-mount, the unit shall come standard with a flat trim plate of die-cast aluminum with _____ finish, a back box of galvanized steel, and a hardware kit for back box installation between ceiling joists. The back box shall be provided with conduit knock-outs at the top, back and end.

All edge-lit units shall have the trim plate snap and lock in the housing with torsion spring retainers, thereby eliminating any visible screws or hardware. The legend shall be printed on a clear acrylic panel. The panel shall come standard with double-face legend, for single-face and double-face applications. The light source shall be long-life white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The edge-lit sign shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 2.5W and universal 2-wire DC input voltage from 6 to 24VDC at less than 2.5W. The edge-lit sign in a self-powered configuration shall use a sealed nickel-cadmium battery of 2.4V nominal voltage and shall stay illuminated during emergency operation for at least two hours upon AC failure.

When specified, the self-powered unit shall include non-audible auto-test functions, managed by a micro-controller: it shall execute automatic tests for 5 minutes every 30 days, 30 minutes every 60 days and two hours annually. When a fault is detected a red flashing LED shall identify the failure type: battery, charger circuitry, or LED lamps.

The edge-lit sign shall be listed CSA 22.2 No.141-15.

The equipment shall be **Emergi-Lite®** model: _____ .

Power consumption

Model		AC specs		DC specs
AC-only	120 to 347VAC	Less than 2.5W	-	-
AC/DC standard	120 to 347VAC	Less than 2.5W	6 to 24VDC	Less than 2.5W
Self-powered	120 to 347VAC	Less than 3.5W	Nickel-cadmium battery	Minimum 2 hours
Self-powered diagnostic	120/347VAC	Less than 3.5W	Nickel-cadmium battery	Minimum 2 hours

Housing colour



Brushed aluminum



Black



Chrome



Factory white



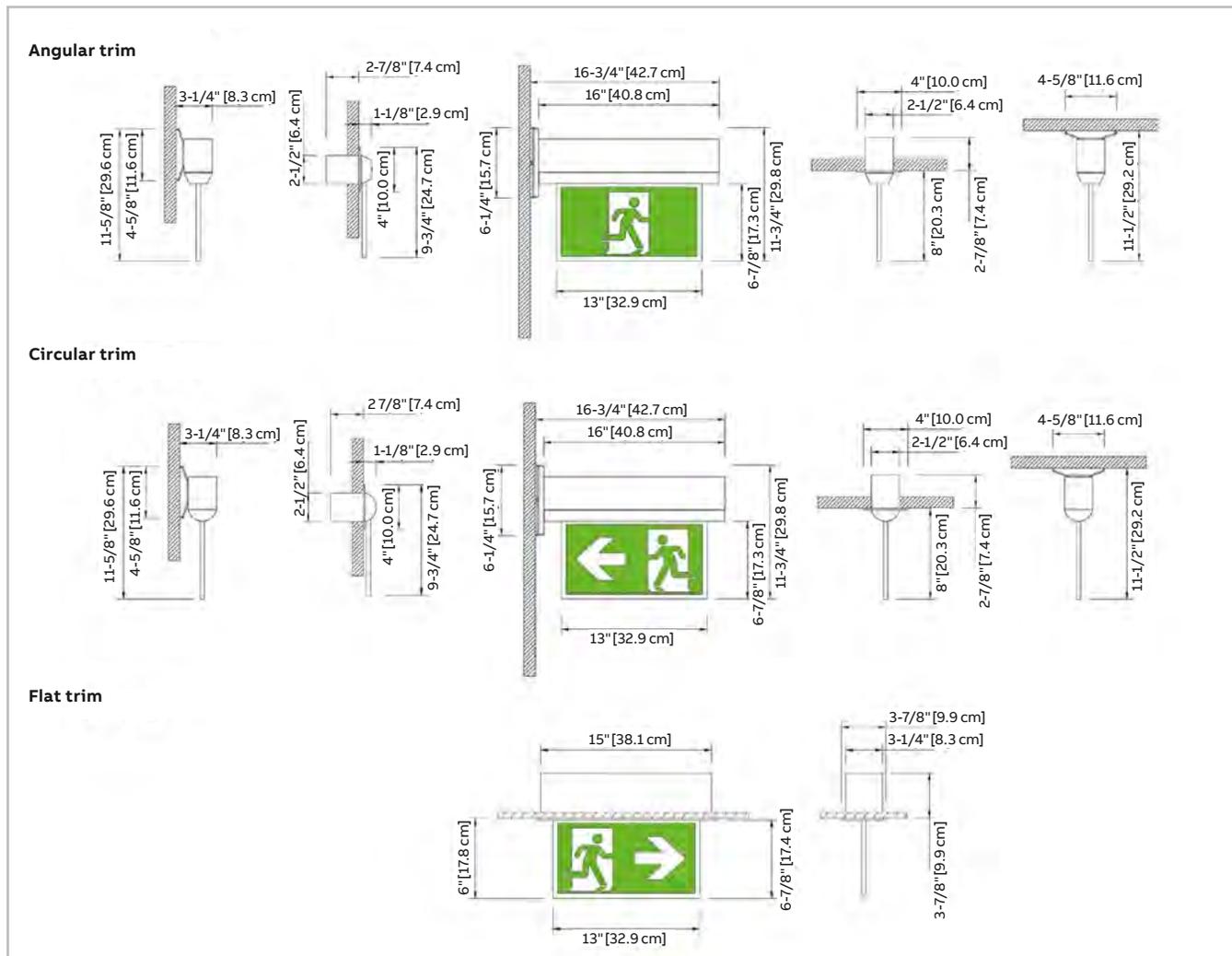
Bronze

EDE Series

Die-cast aluminum pictogram edge-lit sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Faces/arrow	Colour	Trim	Voltage	Options
EDE= die-cast edge-lit pictogram sign	1= one face, no arrows A= double face, arrow left or right L= arrow left, single face R= arrow right, single face _U9= arrow up ¹ _D9= arrow down ¹ _U4= arrow up 45° ¹ _D4= arrow down 45° ¹	A= brushed aluminum B= black C= chrome W= factory white Z= bronze	A= angular C= circular F= flat (fully recessed)	AC= AC only, 120 to 347VAC ID= self-powered (non-audible), 120/347VAC ID2= self-powered (non-audible), 120/277VAC NEX= Nexus® system interface ¹ NEXRF= wireless Nexus® system interface ¹ U= 120 to 347VAC, 6 to 24VDC U48= 120 to 347VAC, 48VDC UI= self-powered, 120 to 347VAC	CL= special panel LP= panel shipped separately X= backbox shipped separately

¹Indicates 1 or 2 faces

Example: EDE2ACU

¹Consult your sales representative for options available with the Nexus® system.

Unlike EXIT signs, the pictogram sign is not available in double arrow configurations.

EX30 Series

Die-cast edge-lit exit sign



Design upgrade

Introducing new features:

- Easier installation: component-free back-box housing and canopy can be installed in advance, like a regular junction box.
- 20 – 30% less power consumption: max. 1.4W (AC-only models) and max. 2.5W (self-powered)
- Bi-color LED pilot light allows visual diagnostic without need to open the unit (self-test and diagnostic option)
- Listed by CSA
- Also available with white LEDs for custom-design legends: pictograms, special wording, etc. (ask our sales representatives)

Features

- Die-cast aluminum construction
- Modular design for universal mounting
- Trim plate choices: pyramid or round for universal mounting and flat (recessed ceiling)
- Component-free back-box ready to pre-install
- LED strip module can be rotated in the unit for either wall or ceiling mount
- U-shaped clear acrylic panel with laser-etched contour for legend letters
- Long-life LED light source; red LEDs of ALINGAP technology
- Two-wire universal AC input: 120 to 347VAC 50/60Hz
- Sealed, maintenance-free nickel-cadmium battery
- Meets or exceeds CSA 22.2 No.141-10
- **Warranty details at: www.emergi-lite.ca**

nexus® 



Typical specifications

Supply and install the **Emergi-Lite® EX30 Series** of die-cast edge-lit exit signs.

The unit specified for universal mounting shall come standard with a trim plate, trim ring, back box and canopy all made of die-cast aluminum with _____ finish. The trim plate shall have a _____ profile and allow for wall or ceiling mount installation. The trim ring shall allow for recessed installation in walls or ceilings with cavity. The canopy shall allow for wall, end, or ceiling mount. The back box shall be provided with conduit knock-outs at the top, back and end.

The unit specified for recessed ceiling shall come standard with a flat trim plate of die-cast aluminum with _____ finish, and a back box of 20-gauge galvanized steel. The back box shall be provided with conduit knock-outs at the top, back and end.

All models shall be provided with a hardware kit including two 27" adjustable bar hangers for back box recessed installation. The unit shall have the trim plate snap and lock in the housing with torsion spring retainers, thereby eliminating any visible screws or hardware. The legend shall be printed on a clear acrylic panel. The panel shall have a U-shape and the legend shall have precision etched 6" high and 3/4" stroke red letters with laser-edged contour and with a white, clear or mirror background. The light source shall be long-life light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. Red LED technology shall be ALINGAP. The unit shall operate with two-wire universal AC input voltage from 120 to 347VAC and two-wire universal DC input from 6 to 24VDC, each input at less than 1.4W.

The edge-lit sign in a self-powered configuration shall use a sealed nickel-cadmium battery and shall stay illuminated during emergency operation for at least 90 minutes upon AC failure. The self-powered unit with self-test and silent diagnostic functions shall be managed by a micro-controller: it shall execute automatic tests for one minute every 30 days, 30 minutes every 60 days and 90 minutes annually. A diagnostic circuit shall continuously monitor the performance of the battery, charger module and LED lamps. When a fault is detected the pilot light shall change colour from green to red and flash with a specific code. The red light is steady-on in case of battery disconnect; it will flash with one blink for battery failure, two blinks for charger failure and four blinks for LED lamp failure. A label with the diagnostic legend shall be visible next to the pilot light.

The edge-lit sign shall be certified CSA C22.2 No.141 and CSA-C860.

The exit sign shall be **Emergi-Lite®** model: _____.

Power consumption and unit rating

Model	AC specs			DC specs
AC-only	120 to 347VAC	Less than 1.4W	–	–
AC/DC - remote	120 to 347VAC	Less than 1.4W	6 to 24VDC	Less than 1.4W
Self-powered	120 to 347VAC	Less than 2.3W	Nickel-cadmium battery	Minimum 90 minutes
Self-powered diagnostic	120/347VAC	Less than 2.3W	Nickel-cadmium battery	Minimum 90 minutes

Housing colour



Black



Brushed aluminum



Bronze



Chrome



Factory white

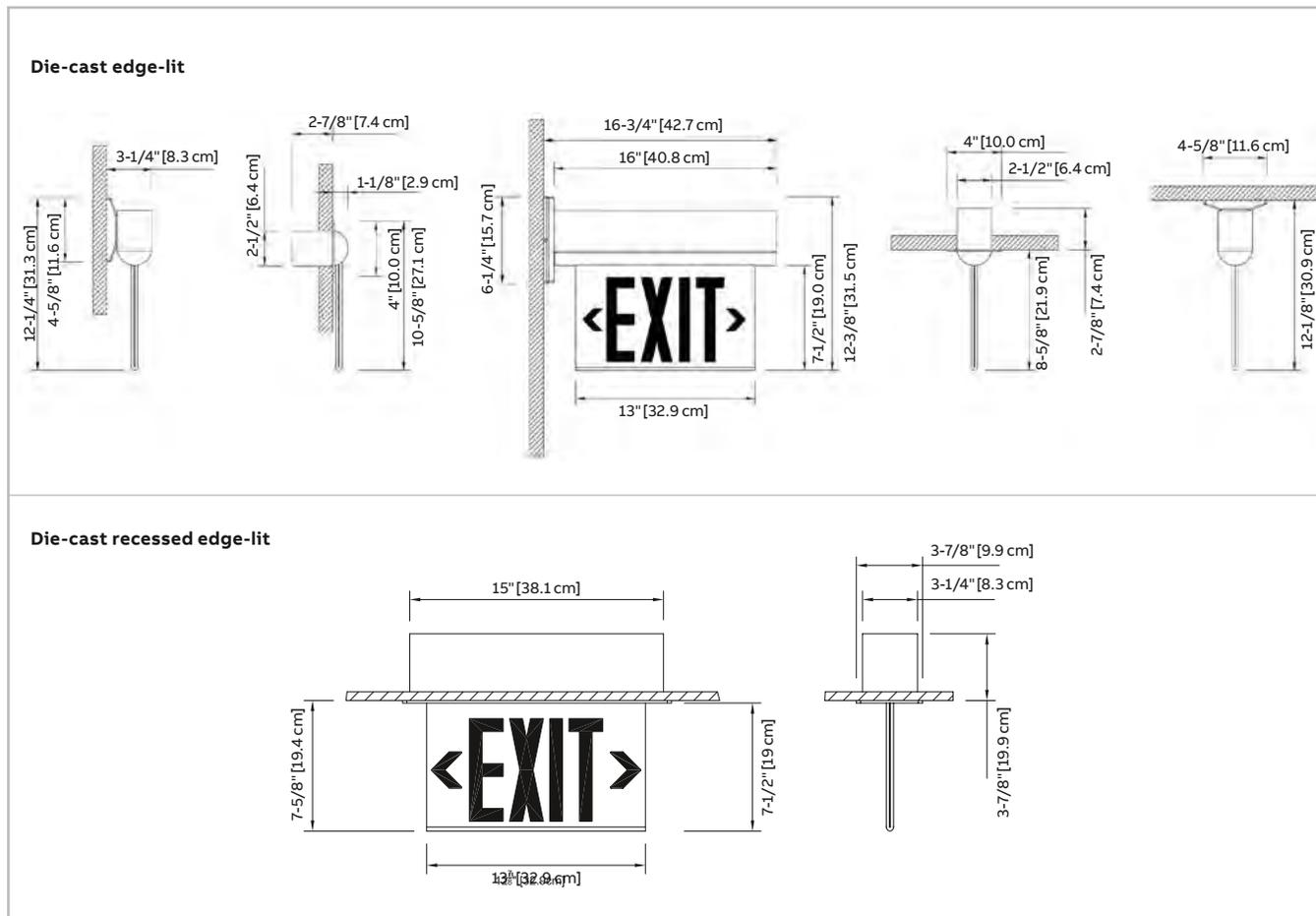
EMERGI-LITE

EX30 Series

Die-cast edge-lit exit sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Faces	Housing colour	Function
EX3	1= single face 2= double face	B= black BA= brushed aluminum BR= bronze CH= chrome W= factory white	A= AC only, 120 to 347VAC D= self-powered, 120 to 347VAC ¹ D2= self-powered diagnostic, 120/277VAC I= self-powered diagnostic, 120/347VAC NEX= NEXUS® system interface ² NEXRF= wireless NEXUS® system interface ² U=120 to 347VAC, 6 to 24VDC

¹Self-powered (90 min time base)

²Consult your sales representative for options available with the NEXUS® system.

Legend colour	Background colour	Chevrons	Trim options
G= green R= red	C= clear single face M= mirror W= white	A= one chevron, double face AL= chevron left ¹ AR= chevron right ¹ DA= double chevron N= no chevrons ¹	A= angular, universal mount C= circular, universal mount F= flat trim, ceiling mount, recessed only

Example: EX31WURWA

¹Not available on double face

EAE Series

Aluminum slim edge-lit pictogram sign



Features

- Slim-profile extruded aluminum housing
- Low-profile E22 die-cast aluminum canopy
- Universal surface mounting – wall, ceiling or end mount
- Click-to-open housing door allows easy access to the panel and electrical wiring
- Extruded acrylic panel with pictogram legend
- Comes with double-face panels for use in single-face and double-face applications
- Long-life white LED light source
- Meets or exceeds CSA.222 No.141-15
- Universal AC input: two-wire 120 to 347VAC; standard DC input: two-wire 6 to 24VDC
- Energy efficient – consumes less than 3W in AC or DC-remote mode
- Self-powered models provide minimum two hours of emergency lighting
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**

Power consumption and unit rating



Model	AC specs		DC specs	
AC-only	120 to 347VAC	< 3W	-	-
AC/DC	120/347VAC	< 2W	6 - 48VDC	< 1.5W
Standard	120 to 347VAC	< 3W	6 to 24VDC	< 2.5W
AC/48VDC	120 to 347VAC	< 3W	48VDC	2W
AC/120VDC	120 to 347VAC	< 3W	120VDC	4.7W
Two-wire 120V AC/DC	120VAC	< 3.5W	120VDC	< 3.5W
Self-powered	120 to 347VAC	< 4W	Ni-cd battery	Min. 2 hrs.

Ordering information

Series	Faces/arrow	Colour	Voltage	Options
EAE= extruded aluminum edge-lit pictogram sign	1= single, no arrow A= double faces, arrow left or right L= single face, left arrow R= single face, right arrow _U9= arrow up ¹ _D9= arrow down ¹ _U4= arrow up 45° ¹ _D4= arrow down 45° ¹	B= black OW= off-white TA= textured aluminum	2120 = 2 wires 120VAC/VDC AC = 120 to 347VAC only U = 120 to 347VAC; 6 to 24VDC U120 = 120 to 347VAC; 120VDC U48 = 120 to 347VAC; 48VDC UI = Self-powered, 120 to 347VAC ¹	LP = Panel shipped separately ¹

Example: EAE20WAC

¹Indicates 1 or 2 faces

¹Self-powered (120 min. time base)

¹Order panel separately

Typical specifications

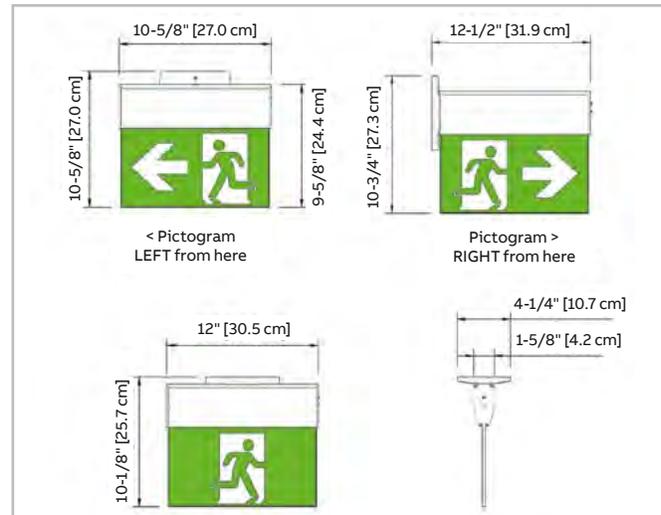
Supply and install the **Emergi-Lite® EAE Series** slim-profile pictogram edge-lit sign. The unit shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 3W and universal 2-wire DC input voltage from 6 to 24VDC at less than 2.5W. The housing assembly shall be constructed of extruded aluminum with textured finish and colour. The canopy shall be of die-cast aluminum and allow for wall, end, or ceiling mount. The legend shall be printed on a pure-acrylic panel. The panel shall come standard with double-face legend, for single-face and double-face applications. The light source shall be long-life white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The pictogram edge-lit sign in a self-powered configuration shall use a sealed nickel-cadmium battery of 2.4V nominal voltage and shall stay illuminated during emergency operation for at least two hours upon AC failure.

The pictogram edge-lit sign shall be listed CSA 22.2 No. 141-15.

The equipment shall be **Emergi-Lite®** model: _____.

Dimensions

Dimensions are approximate and subject to change.



New product

EAEC Series

Pictogram extruded aluminum edge-lit combo



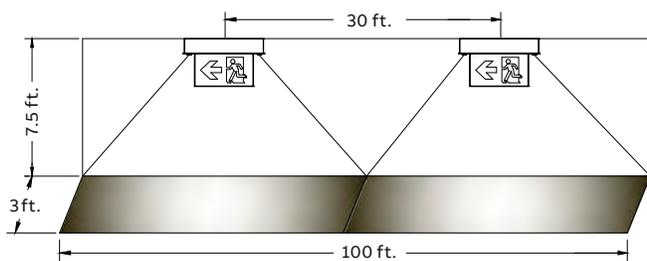
Features

- Extruded aluminum trim plate
- Universal wall and ceiling surface or recessed mounting
- Includes pictogram panels for single and double face applications
- High power LED lamps
- Lamp heads are fully adjustable
- High temperature long life Ni-MH battery
- 120/347VAC 60Hz
- CSA C22.2 no.141-15 approved
- Standard with diagnostics
- Unit has a one-year limited warranty

Warranty details at: www.emergi-lite.ca

Photometric performance

Spacing center-to-center (feet)	
Series	7.5' mounting height
EAEC-2H0	30'



Power consumption

Model	AC specs	DC specs
EAEC-2H0	120/347VAC, 60 Hz, 3W	Ni-MH battery Minimum 90 minutes

Ordering information

Series	Face/arrow (universal mounting)	Colour	Lamp
EAEC	Blank= universal faces	Blank= factory white	-2H0= 2 high output LED lights

Example: EAEC-2H0

Dimensions

Dimensions are approximate and subject to change.

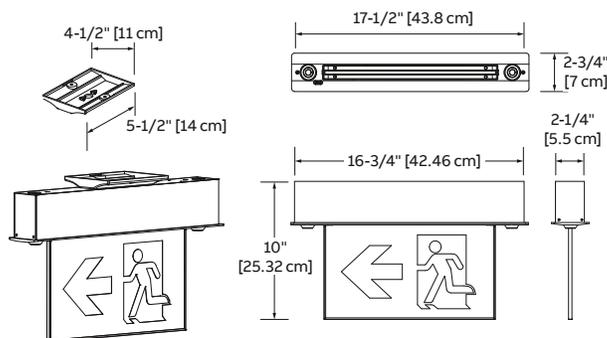


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Pictogram STRAIGHT from here

Pictogram > RIGHT from here

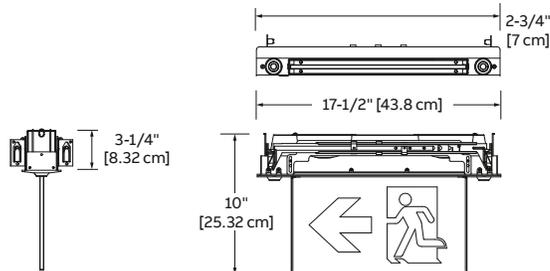
Surface mount



Option 1

Option 2

Recessed mount



New product

CM-Edge Series

Aluminum edge-lit pictogram sign

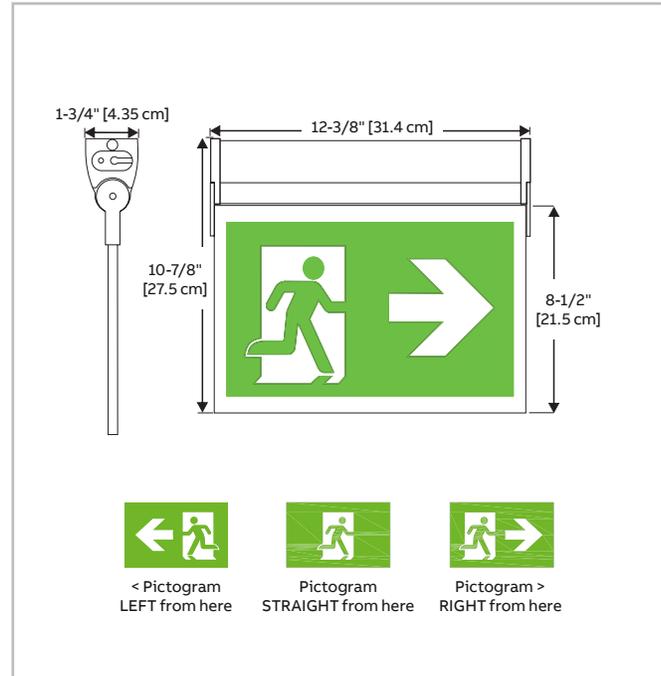


Features

- Aluminum frame and polycarbonate panels illuminated by high efficiency LEDs
- Universal side, wall and ceiling mount
- Universal single and double face
- 3 pictogram panels included: 1 with no arrow and 2 with arrows
- 120-347VAC 50/60Hz input
- 3.6V Nickel-cadmium battery offering 120 minutes of emergency lighting
- Red LED charger monitor and momentary test switch (self-powered model)
- CSA C22.2 no.141-15 certified
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs		
	Input wattage (AC/SP)	Current (AC/SP)	Efficiency (AC/SP)
CM-EDGE-E	120V, 50/60Hz	2W/3W	0.01A/0.24A
	277V, 50/60Hz	2W/3W	0.007/0.014A
	347V, 50/60Hz	3W/4W	0.01A/0.017A

Ordering information

Series	Voltage	Brand
CM-EDGE	-AC= 120VAC-347VAC -SP=120VAC-347VAC, self-powered (120 minutes)	-E= Emergi-Lite®

Example: CM-EDGE-AC-E

EMERGI-LITE



ED Series

Die-cast pictogram sign



Features

- Slim contoured body design
- Single & double face models supplied with two pictogram films, universal face models supplied with three pictogram films for directional selection
- Durable powder-coated die-cast construction in a variety of finishes
- Slim-line die-cast canopy for ceiling and end mounting
- Universal mounting, wall, end, or ceiling
- Dual voltage input: 120/277VAC 60Hz or 120/347VAC 60Hz
- Low power consumption: less than 3.5W
- Maintenance-free, long life sealed nickel-cadmium battery delivers minimum 120 minutes of back-up lighting
- Optional vandal-proof shield and tamper-proof screws
- Special wording available (CSA C22.2 No. 250.0)
- Meets or exceeds CSA 22.2 No. 141-15
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Stylish and built of die-cast aluminum, the new **Emergi-Lite® ED Series** offers superior workmanship, versatile mounting capabilities and economical, long-lasting LED performance.

Supply and install the **ED Series** pictogram sign. The faceplate(s) and the back plate shall snap together and be made of die-cast aluminum. No screws are necessary to hold the faceplate(s) or the back plate to the housing. The light source shall be light emitting diodes (LED). The LED strip shall provide illumination in normal and emergency operation and shall be mounted inside the pictogram sign on a plastic frame/reflector.

The equipment in a self-powered configuration shall use a sealed nickel-cadmium battery of 2.4V nominal voltage. The equipment shall recharge the battery in 24 hours and stay illuminated at least for a minimum 120 minutes upon AC failure. The equipment shall operate with a dual-voltage input of 120/277VAC 60Hz or 120/347VAC 60Hz with less than 3.5W of consumption.

When specified, the self-powered model equipped with advanced diagnostic shall self-test by simulating a power failure for one minute every 30 days, 30 minutes every 6 months and 120 minutes annually. A diagnostic circuit shall continuously monitor the performance of the battery, charger module and LED strip. Upon failure detection the system shall display the error on the AC pilot lamp, which will change color and will flash with a specific code.

The pictogram sign shall be CSA 22.2 No.141-15 certified.

The pictogram sign shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

Power consumption and unit rating

Model	AC specs		DC specs	
AC only	120/277VAC or 120/347VAC	Less than 2.5W	-	-
AC/DC standard	120/277VAC or 120/347VAC	Less than 2.5W	6 to 48VDC	Less than 2W
Self-powered	120/277VAC or 120/347VAC	Less than 3.5W	Ni-Cd battery	Minimum 120 minutes
Self-powered with diagnostic	120/277VAC or 120/347VAC	Less than 3.5W	Ni-Cd battery	Minimum 120 minutes

Housing colour



Black



Brushed aluminum



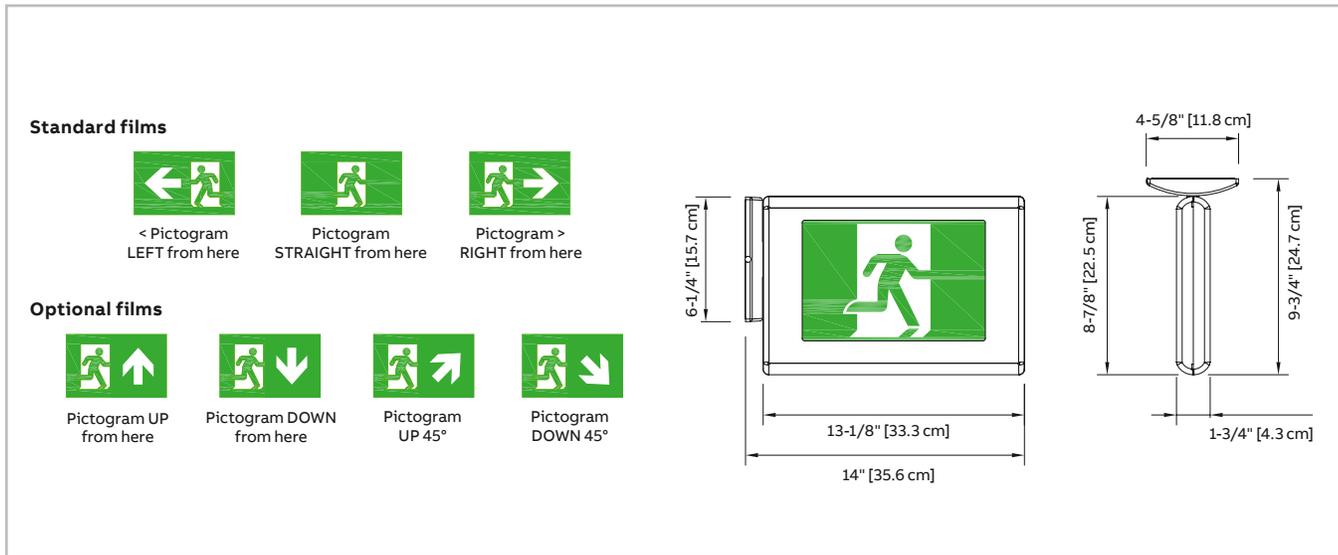
Factory white

ED Series

Die-cast pictogram sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series/enclosure	Faces/mounting	Arrow configuration	Housing/faceplate color
ED= die-cast pictogram	1= single face, universal mount 2= double face, universal mount 3= universal face, universal mount ¹	Blank= standard film ¹ D4= arrow down 45° D9= arrow down U4= arrow up 45° U9= arrow up	BA= black/brushed aluminum BB= black/black WA= factory white/ brushed aluminum WW= factory white/ factory white
	¹ Only available with standard film. Not available with Nexus®	¹ See features for standard film details	
Circuit type	Voltage	Options	
AC= AC only I= self-powered ID= self-powered diagnostic audible IDN= self-powered diagnostic non-audible NEX= Nexus® wired system interface NEXRF= Nexus® wireless system interface UD= AC & 6 to 48VDC	2= 120/277VAC 3= 120/347VAC	CL= special wording ¹ TP= tamper-proof screws ² VR= vandal resistant shield and tamper-proof screws ¹	

Example: ED1BBIDN3

¹Not available universal face
²Only available with single or double face

EA Series

Extruded aluminum pictogram sign



Features

- Durable extruded, one-piece aluminum housing and faceplates
- White LED light source
- Supplied standard with two pictogram films per face, for direction selection
- Meets or exceeds CSA 22.2 No.141-10 standard for pictogram signs
- Universal AC input: two-wire 120 to 347VAC; standard DC input: two-wire 6 to 24VDC
- Energy efficient – consumes less than 2.5W in AC or DC-remote mode
- Self-powered model gives standard two hours of back-up lighting
- Universal mounting – end, wall or ceiling
- Easy access to wiring entry for all mounting options
- Comes standard with the **Emergi-Lite®** EZ2 canopy for quick and easy installation
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**

Typical specifications

Supply and install the **Emergi-Lite® EA Series** pictogram signs. The equipment shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 2.5W and universal 2-wire DC input voltage from 6 to 24VDC at less than 1.5W for single and double face signs. The equipment shall be suitable for wall, end, or ceiling mount. The housing shall be constructed of rugged extruded aluminum and have a maximum depth of 2-1/2". The faceplate(s) shall be constructed of extruded aluminum and shall incorporate a protective clear polycarbonate panel. Each faceplate shall come standard with two legend films for pictogram and direction selection. The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The pictogram sign in a self-powered configuration shall use a sealed nickel-cadmium battery of 2.4V nominal voltage and shall stay illuminated during emergency operation for at least two hours upon AC failure. The pictogram sign shall meet CSA 22.2 No.141-10.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount



Power consumption and unit rating

Model	AC specs	DC specs
AC-only	120 to 347VAC Less than 2.5W	–
AC/DC standard	120 to 347VAC Less than 2.5W	6 to 24VDC Less than 1.5W
AC/special DC	120 to 347VAC Less than 2.5W	36, 48, 120VDC Less than 2.5W
Two-wire 120V AC/DC	120VAC Less than 2.5W	120VDC Less than 2.5W
Self-powered	120 to 347VAC Less than 3W	Ni-Cd battery Minimum 2 hours

Housing colour



Brushed aluminum



Black



Grey



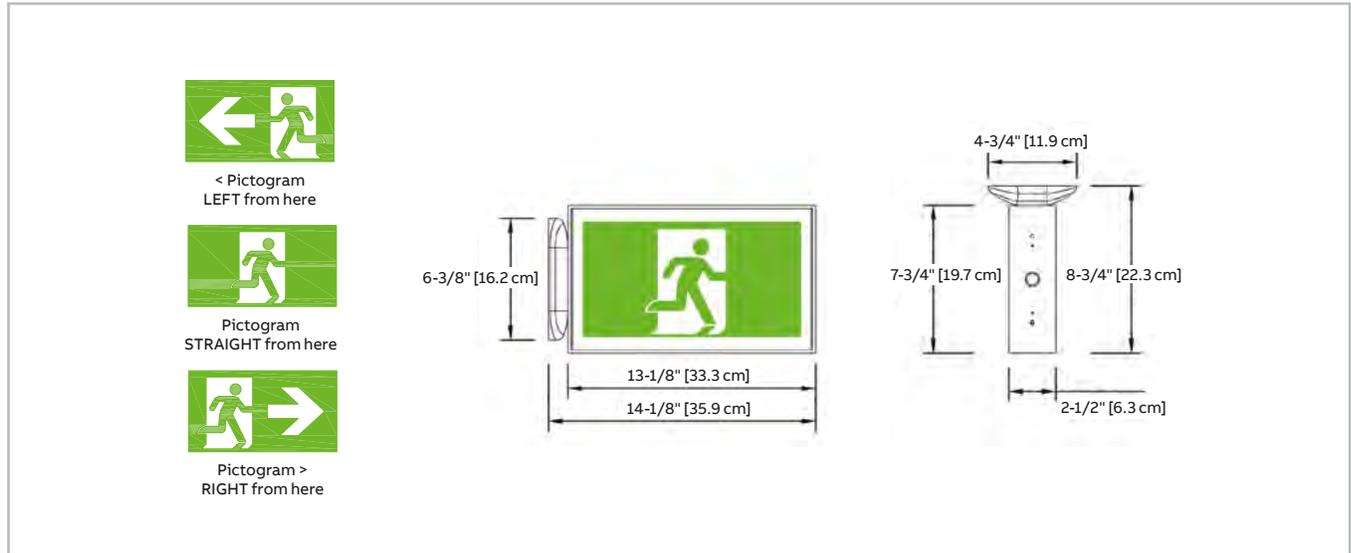
Factory white

EA Series

Extruded aluminum pictogram sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Faces/mounting	Colours	Voltage	Options
EA= pictogram sign	1= single face, universal mount	A= brushed aluminum B= black	2120= 2-wires 120VAC/VDC I= 120 to 347VAC; self- powered/2 hours	CL= special wording ¹ CLX2= special wording 2 LED stripes ¹
	2= double face, universal mount	G= grey W= factory white	IDN= self-powered diagnostics Ni-Cd,120/347VAC, non-audible	D4= arrow down 45° D9= arrow down
	3= universal face, universal mount	Other colours available	NEX= NEXUS® system interface ¹ NEXRF= wireless NEXUS® system interface ¹ U= 120 to 347VAC; 6 to 24VDC	TP= tamper-proof screws ¹ U9= arrow up U4= arrow up 45°
			U00= 120 to 347VAC only U36= 120 to 347VAC; 36VDC U48= 120 to 347VAC; 48VDC U120= 120 to 347VAC; 120VDC	VR= vandal-resistant shield and tamper-proof screws ¹

Example: EA1WUTP

¹Not all options available with Nexus® system. Please consult your sales representative.

¹990.0119-E= tamper-proof bit Specify single or double face only.

EA Triangular Series

Extruded aluminum pictogram sign



Features

- Long-life white LED light sources is warranted for ten (10) years
- Supplied standard with two pictogram films, for direction selection
- Universal AC input: two-wire 120 to 347VAC; standard DC input: two-wire 6 to 24VDC
- Energy efficient – consumes less than 2.5W in AC or DC-remote mode per face
- Easy access to wiring entry for all mounting options
- Special wording available (CSA C22.2 No. 250.0)
- Meets or exceeds CSA 22.2 No.141-15
- **Warranty details at: www.emergi-lite.ca**

Typical specifications

Supply and install the **Emergi-Lite® EA Triangular Series** pictogram signs.

The equipment shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 2.5W and universal 2-wire DC input voltage from 6 to 24VDC at less than 1.5W per face. The equipment shall be suitable for wall or pendant, or ceiling mount. The housing shall be constructed of rugged extruded aluminum. The faceplate(s) shall be constructed of extruded aluminum and shall incorporate a protective clear polycarbonate panel. Each faceplate shall come standard with two legend films for pictogram and direction selection.

The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation.

The pictogram sign shall meet CSA 22.2 No.141-15.

The equipment shall be **Emergi-Lite®** model: _____.

Power consumption (per face)

Model	AC specs		DC specs	
AC/DC standard	120 to 347VAC	< 2.5W	6 to 24VDC	< 1.5W

Dimensions

Dimensions are approximate and subject to change.



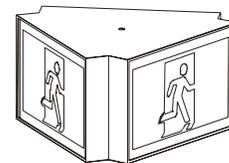
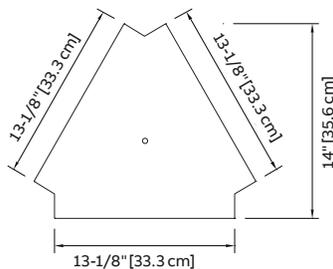
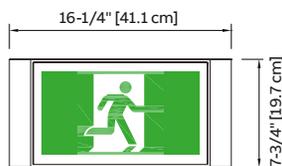
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Ordering information

Series	Faces/mounting	Colour	Voltage	Options
EA= pictogram sign	T2S= triangular 2 sided, wall and pendant mount only T3S= triangular 3 sided, pendant mount only	W= factory white	UNIV= 120 to 347VAC; 6 to 24VDC	CL= special wording D4= arrow down 45° D9= arrow down TP= tamper-proof screws ¹ U4= arrow up 45° U9= arrow up

Example: EAT2SWUNIVTP

¹990.0119-E= tamper-proof bit (sold separately)



LPEX50 Series

Extruded aluminum exit sign



Features

- Durable, extruded, one-piece aluminum housing
- Long-life, energy-efficient **ALINGAP** technology red LED light source completely enclosed in acrylic module
- Single illumination module lights both single and double face exit signs
- Highly energy efficient – consumes less than 2.5W in AC or DC mode
- Normal AC and emergency DC operation – 120/277/347V AC input; 6 to 24V DC input
- Comes with the **Emergi-Lite®** EZ2 canopy for quick and easy installation
- Also available with power pack; see LPEX50-P catalogue sheet
- CSA certified, meets or exceeds CSA 22.2 No. 141-15 requirements
- **Warranty details at: www.emergi-lite.ca/**



Power consumption and unit rating

Model		AC specs		DC specs
AC/ standard DC, red	120/277/347VAC	Less than 1.5W	6 to 24VDC	Less than 1.5W
AC/ special DC, red	120/277/347VAC	Less than 1.5W	36 or 48 or 120VDC	Less than 2.5W
Self-powered, red	120 to 347VAC	Less than 3W	Ni-Cd battery	Minimum 90 minutes
AC/ standard DC, green	120 to 347VAC	Less than 1.5W	6 to 24VDC	Less than 1.5W
Self-powered, green	120 to 347VAC	Less than 3W	Ni-Cd battery	Minimum 90 minutes

Typical specifications

Supply and install the **Emergi-Lite® LPEX50 Series** LED exit signs. The equipment shall operate with universal AC input voltage of 120VAC, 277VAC or 347VAC at less than 1.5W and universal two-wire DC input voltage from 6VDC to 24VDC at less than 1.5W for single or double face signs.

The housing shall be constructed of rugged extruded aluminum and have a maximum depth of 2-1/2". The faceplate(s) shall be constructed of extruded aluminum and come standard with knockout chevrons.

The light source shall be light emitting diodes (LED). The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. The red LED technology shall be **ALINGAP**. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The exit sign in a self-powered configuration shall stay illuminated during emergency operation for at least 90 minutes upon AC failure.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No.141-15.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

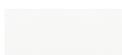
Housing colour



Black



Brushed aluminum



Polar white



Textured aluminum



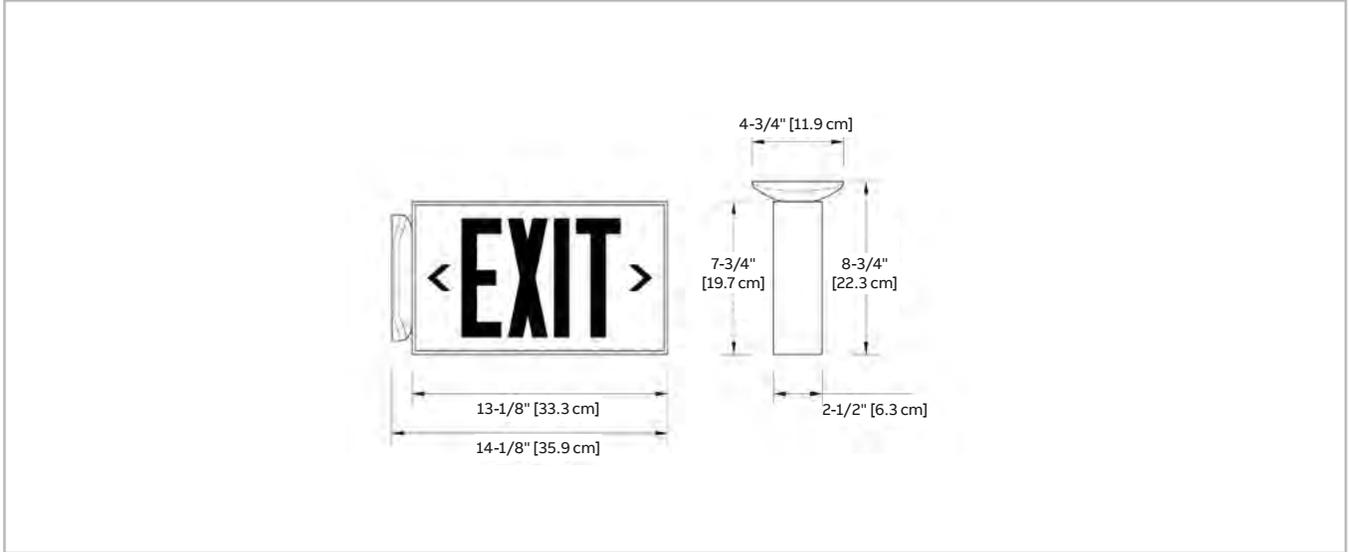
Factory white

LPEX50 Series

Extruded aluminum exit sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Faces	Colour	Voltage	Options
LPEX5= LED EXIT	2= single face, universal mount	B= black	-EM120-2W= 120VAC, 120VDC 2 wires	-G= green legend
LPCL5= special wording	3= double face, universal mount	BA= brushed aluminum PW= polar white TA= textured aluminum W= factory white	-I= self-powered, 120 to 347VAC -U= 120/277/347VAC, 6 to 24VDC -U36= 120/277/347VAC - 36VDC -U48= 120/277/347VAC - 48VDC -U120= 120/277/347VAC - 120VDC	-TP= tamper-proof screws ¹ -VRTP= vandal resistant shield with tamper-proof screws ¹ -X2= special wording, two LED

Example: LPEX52W-U-VRTP

¹990.0119-E= tamper-proof bit
(sold separately)

C8SR50 Series

Extruded aluminum “sortie” sign



Features

- Durable, extruded, one-piece aluminum housing
- Long life **ALINGAP** technology LED light source is completely enclosed in acrylic module
- Single illumination module lights both single and double face exit signs
- Highly energy efficient, consumes a maximum of 3W
- Normal AC and emergency DC operation – 120V to 347VAC; 6V to 24VDC input
- Also available with power pack; see C8SR50-P catalogue sheet
- CSA certified, meets or exceeds CSA 22.2 No. 141 requirements
- Includes **Emergi-Lite**® EZ2 mounting bracket included, for quick and easy installation
- **Warranty details at: www.emergi-lite.ca/**



Typical specifications

Supply and install the **Emergi-Lite**® **C8SR50 Series** LED “SORTIE” exit signs. The equipment shall operate with universal two-wire AC input voltage of 120VAC to 347VAC at less than 1.5W and universal two-wire DC input voltage from 6VDC to 24VDC at less than 1.5W for single or double face signs.

The housing shall be constructed of rugged extruded aluminum and have a maximum depth of 2-1/2". The faceplate(s) shall be constructed of extruded aluminum and come standard with knockout chevrons.

The light source shall be light emitting diodes (LED). The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. The red LED technology shall be ALINGAP. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The exit sign in a self-powered configuration shall stay illuminated during emergency operation for at least 60 minutes upon AC failure.

The exit sign shall be CSA-C860 approved.

The equipment shall be **Emergi-Lite**® model: _____.

Wire guards

Ordering code	Description
460.0057-E	Wall mount
460.0048-E	End mount
460.0058-E	Ceiling mount

Power consumption and unit rating

Model	AC specs	DC specs
AC/ standard DC, red	120 to 347VAC Less than 1.5W	6 to 24VDC Less than 1.5W
AC/ special DC, red	120/277/347VAC Less than 1.5W	36 or 48 or 120VDC Less than 3W
Self-powered, red	120 to 347VAC Less than 3W	Nickel-cadmium battery Min. 60 or 120 minutes

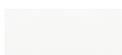
Housing colour



Black



Brushed aluminum



Polar white



Textured aluminum



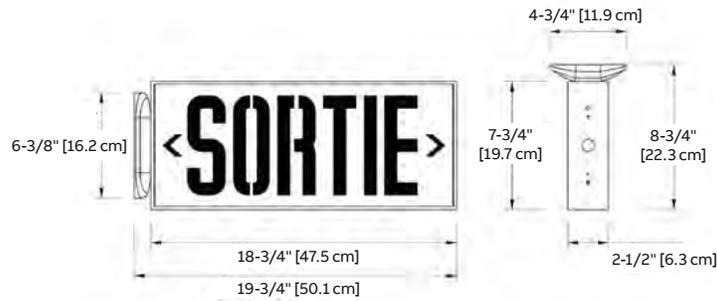
Factory white

C8SR50 Series

Extruded aluminum “sortie” sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Faces	Colour	Voltage	Options
C8SR5 = aluminum SORTIE	2 = single face, universal mount	B = black BA = brushed aluminum	-EM120-2W = 120VAC, 120VDC 2 wires -I = self-powered, 120 to 347VAC (60 minutes)	-G = green legend -TP = tamper-proof screws ¹ -VRTP = vandal resistant shield with tamper-proof screws ¹
C8CL5 = special wording	3 = double face, universal mount	PW = polar white TA = textured aluminum W = factory white	-I2 = self-powered, 120 to 347VAC (120 minutes) -U = 120/277/347VAC 6 to 24VDC -U36 = 120/277/347VAC - 36VDC -U48 = 120/277/347VAC - 48VDC -U120 = 120/277/347VAC - 120VDC	-X2 = special wording, two LED strips

Example: C8SR52W-U

¹990.0119-E= tamper-proof bit
(sold separately)

EAC Series

Extruded aluminum combination unit



Features

- Solid extruded aluminum construction, painted factory white
- Universal mounting: end, wall or ceiling
- Meets or exceeds CSA 22.2 No.141-10 standard for unit equipment and pictogram safety signs
- Legend illuminated by long-life white LED's
- Comes standard with two pictogram films per face, for direction selection
- 5W LED emergency lights provide 70' of egress illumination on a 6-foot wide path
- Sealed, maintenance-free lead-calcium battery
- Remote load capacity: 70' up to 350' of egress illumination when using LED remote heads
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® EAC Series** combination emergency light battery unit and the pictogram sign. The unit shall be suitable for universal mounting: wall, end, or ceiling. The unit shall include a power pack made of steel and a legend housing including a one-piece extruded aluminum frame. The legend housing shall have a maximum depth of 2-1/2". The faceplate(s) shall be of extruded aluminum and shall incorporate a protective clear polycarbonate panel. Each faceplate shall come standard with two legend films for pictogram and direction selection. The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The power pack shall be complete unit equipment with battery charger and rechargeable battery. The battery shall be maintenance-free, sealed Lead-Calcium. In case of AC power failure the equipment shall provide minimum 30 minutes of emergency lighting. The rated DC power available for emergency lights shall be 27W or up to 80W, as specified. The emergency heads shall require no tools to adjust and aim. The heads shall be made of durable thermoplastic construction as otherwise specified.

Units with "auto-diagnostic option" shall include a micro-controller circuit to monitor all the critical functions of the equipment and execute periodical tests of one minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. In case of equipment malfunction, an LED-based diagnostic display shall generate a service alarm and indicate the cause of failure: battery, charger circuit, emergency lamps or pictogram sign lamps.

The equipment shall meet or exceed the requirements of CSA 22.2 No.141-10 standard.

The equipment shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0081-E	Wall mount
460.0060-E	Ceiling mount

Housing colour



Black



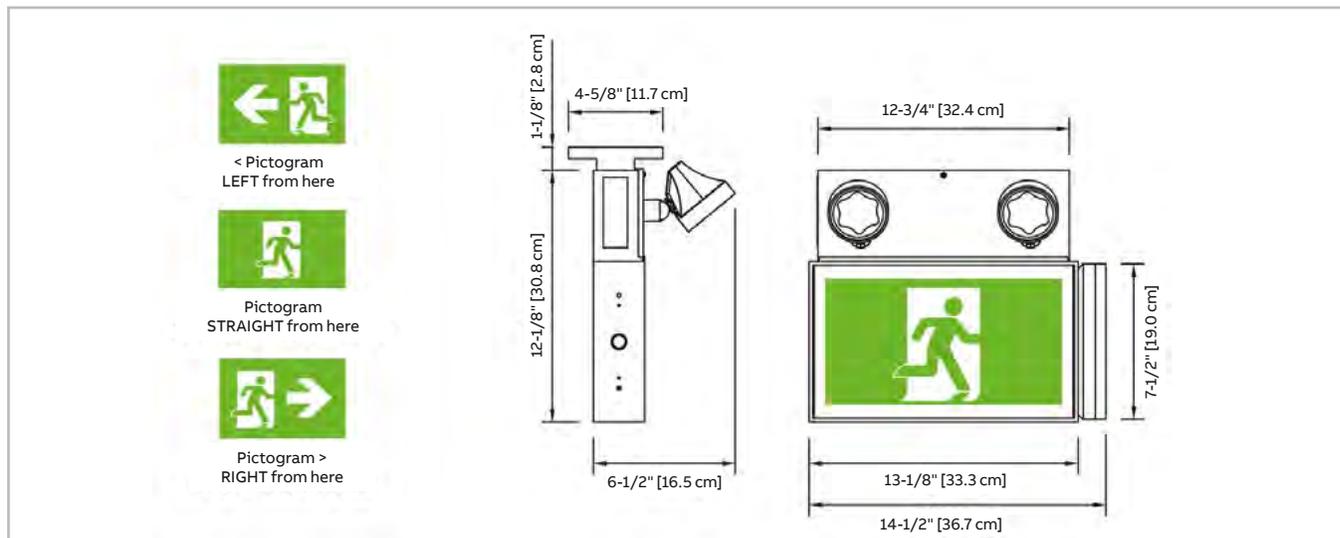
Factory white

EAC Series

Extruded aluminum combination unit

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity					
		30 min	1H00	1H30	2H00	4H00	
Pictogram module	120/347VAC	Less than 1.5W	-	-	-	-	-
EAC-627			27	16	11	9	-
EAC-640	120/347VAC	0.15/0.05 A	40	23	16	13	-
EAC-672			72	42	30	24	12
EAC-1250	120/347VAC	0.25/0.09 A	50	29	21	16	8
EAC-1280			80	46	32	27	13

Ordering information

Series	Faces/mounting	Colour	Power emergency lights	Heads
EAC= pictogram aluminum combination unit	1= single face, universal mounting	B= black W= factory white	627= 6V-27W 640= 6V-40W 672= 6V-72W 1250= 12V-50W 1280= 12V-80W	Blank= no heads 1= one head 2= two heads
	2= double face, universal mounting			
	Lamp style and wattage	Voltage	Options	
	Blank= no heads LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W	Blank= 120/347VAC -2= 120/277 input	D3= time delay (15 minutes) ¹ D4= arrow down 45° D9= arrow down NEX= NEXUS® system interface ² NEXRF= wireless NEXUS® system interface ² -TP= tamper-proof screws ³ U= auto-diagnostics ² U4= arrow up 45° U9= arrow up UN= auto-diagnostics, non-audible ²	

Example: EAC1W6272LAD3

¹Available with auto-diagnostics or NEXUS® only

²Not available with 6V-72W. Not all options available with NEXUS® system interface. Please consult your sales representative.

³990.0119-E= tamper-proof bit (sold separately)

LPEX50-P Series

Extruded aluminum combination unit - 6/12V



Features

Exit Sign

- Extruded aluminum faceplate
- Universal, field-selectable chevrons (knockout)
- **ALINGAP** LED technology

Power Pack

- Completely self-contained unit with rechargeable sealed lead battery
- Lamp heads require no tools to adjust or aim
- Meets or exceeds CSA 22.2 No. 141 requirements
- **Warranty details at: www.emergi-lite.ca/**



nexus®

Typical specifications

Supply and install the **Emergi-Lite® LPEX50-P** LED exit sign and power pack combination series. The exit housing shall be constructed of rugged extruded aluminum. The faceplate shall be constructed of extruded aluminum. The exit sign shall have a maximum depth of 2-1/2". The faceplate(s) shall come standard with knockout chevrons. The light source shall be light emitting diodes (LED). The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The power pack shall be a completely self-contained emergency unit with its own charger and rechargeable battery. The housing shall be made of steel, painted factory white. The unit shall be designed to furnish exit illumination from the normal AC source. When a power failure occurs the mounted heads along with the exit sign are illuminated in emergency mode for a minimum of 30 minutes. The power pack is furnished with a test switch and high charge pilot light and is available as either 18, 36 or 72W. The heads shall require no tools to adjust and aim. The heads will be constructed of a durable thermoplastic construction and use 6V, 4W LED lamps or as otherwise specified.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No. 141.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0081-E	Wall mount
460.0060-E	Ceiling mount

Power consumption

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
Exit sign module	Less than 1.5W	-	-	-	-	-
LPX5-P1	120/347VAC	18	10	7	6	3
LPX5-P3		36	21	15	12	6
LPX5-P3A		72	42	30	24	12
LPX5-P7		36	21	15	12	6
LPX5-P7A		72	42	30	24	12

Housing colour



Black



Brushed aluminum



Textured aluminum



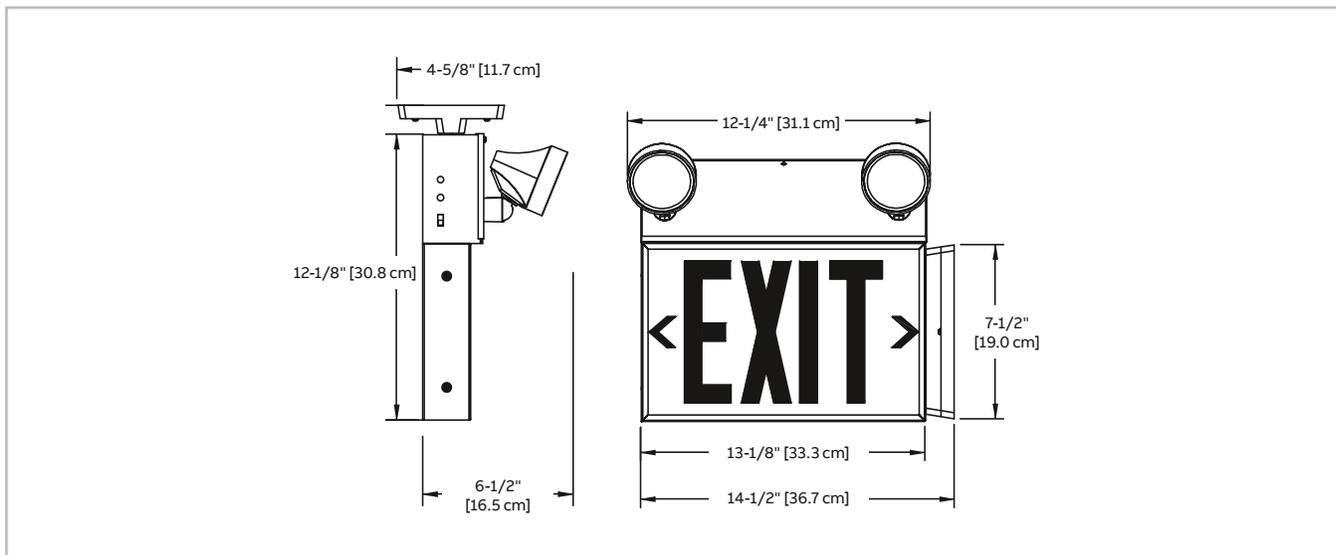
Factory white

LPEX50-P Series

Extruded aluminum combination unit - 6/12V

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Colour	Voltage	Powerpack
LPEX52= single face	B= black	Blank= 120/347VAC	-P1= 6V-18W
LPEX53= double face	BA= brushed aluminum ¹	-2= 277VAC	-P3= 6V-36W
	TA= textured aluminum ¹		-P3A= 12V-36W
	W= factory white		-P7= 6V-72W
	¹ Black heads		-P7A= 12V-72W
Options	Number of heads	Lamp style and wattage	
Blank= no options	/0= no heads	LA= MR16 LED, 6V-4W	
D= time delay (15 min.)	/1= one head	LB= MR16 LED, 6V-5W	
G= green legend	/2= two heads	LG= MR16 LED, 12V-4W	
NEX= NEXUS® system interface ²		LI= MR16 LED, 12V-5W	
NEXRF= wireless NEXUS® system interface ²		LJ= MR16 LED, 12V-6W	
U= auto-diagnostics ³			
UN= auto-diagnostics, non-audible ³			

Example: LPEX52W-P3/2LB

²Not all options available with NEXUS® system.

Please consult your sales representative.

³Not available for 6V-72W

C8SR50-P Series

Extruded aluminum combination unit - 6/12V



Features

- Rugged extruded aluminum housing with a maximum depth of 2-1/2"
- Extruded aluminum faceplate
- White finish standard
- Standard field-selectable knockout chevrons
- Long life, energy-efficient LED light source, mounted inside the exit housing, not on the faceplate.
- **ALINGAP** technology LED
- NEXUS® compatible (for more information on NEXUS®, please consult your sales representative)
- Completely self-contained unit with rechargeable sealed lead- acid battery
- Lamp heads require no tools to adjust or aim
- Provides a minimum of 30 minutes of illumination (lamp heads and exit sign) in emergency mode
- CSA certified, meets or exceeds CSA 22.2 No. 141. requirements
- **Warranty details at: www.emergi-lite.ca/**



nexus®

Typical specifications

Supply and install the **Emergi-Lite® C8SR50-P** LED "SORTIE" exit sign with power pack combination series. The exit housing and the faceplate(s) shall be constructed of rugged extruded aluminum. The exit sign shall have a maximum depth of 2-1/2". The faceplate(s) shall come standard with knockout chevrons.

The light source shall be light emitting diodes (LED). Red LED technology shall be **ALINGAP**. The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The power pack shall be a completely self-contained emergency unit with its own charger and rechargeable battery. The housing shall be made of steel. The unit shall be designed to furnish exit illumination from the normal AC source. When a power failure occurs, the mounted heads along with the exit sign are illuminated in emergency mode for a minimum of 30 minutes. The power pack is furnished with a test switch and high charge pilot light and is available as either 18, 36 or 72W. The heads shall require no tools to adjust and aim. The heads will be constructed of polycarbonate and include 6V, 4W LED lamps or as otherwise specified.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No.141.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0081-E	Wall mount
460.0060-E	Ceiling mount

Power consumption

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
Sortie sign module	Less than 2W	-	-	-	-	-
C8SR5= 6V-18W	120/347VAC	18	10	7	6	3
C8SR5= 6V-36W		36	21	15	12	6
C8SR5= 12V-36W		72	42	30	24	12
C8SR5= 6V-72W		36	21	15	12	6
C8SR5= 12V-72W		72	42	30	24	12

Housing colour



Black



Brushed aluminum



Textured aluminum



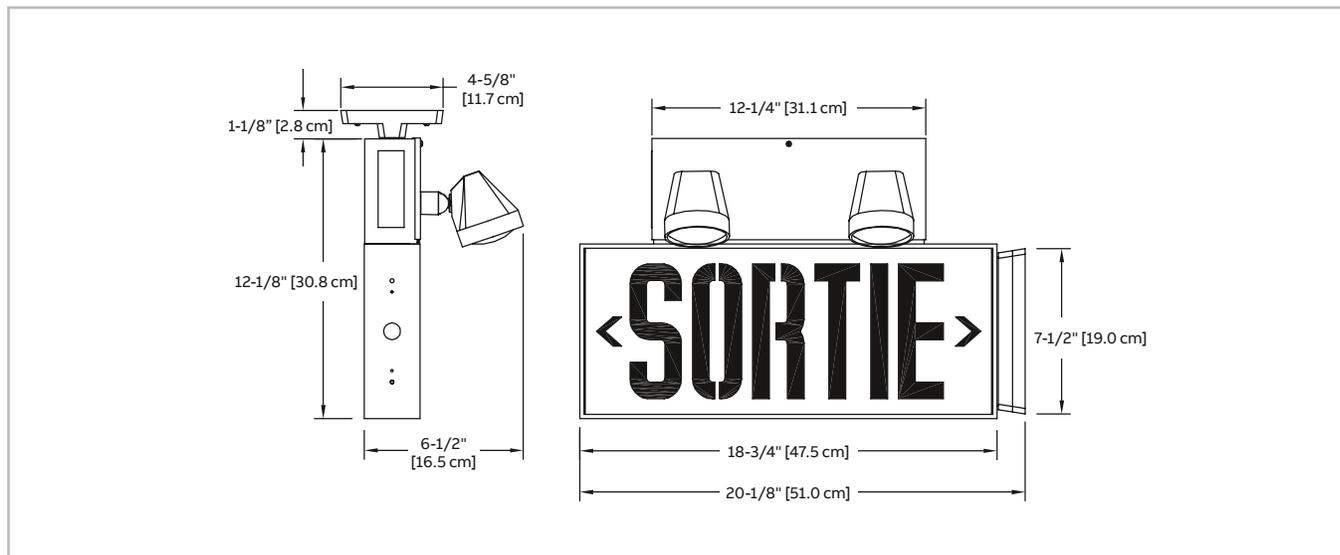
Factory white

C8SR50-P Series

Extruded aluminum combination unit - 6/12V

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Housing colour	Voltage	Powerpack
C8SR52= single face	B= black	Blank= 120/347VAC	-P1= 6V-18W
C8SR53= double face	BA= brushed aluminum ¹	-2= 277VAC	-P3= 6V-36W
	TA= textured aluminum ¹		-P3A= 12V-36W
	W= factory white		-P7= 6V-72W
	¹ Black heads		-P7A= 12V-72W
Options	Number of heads	Lamp style and wattage	
Blank= no options	/0= no heads	LA= MR16 LED, 6V-4W	
D= time delay (15 min.)	/1= one head	LB= MR16 LED, 6V-5W	
NEX= NEXUS [®] system interface ¹	/2= two heads	LG= MR16 LED, 12V-4W	
NEXRF= wireless NEXUS [®] system interface ¹		LI= MR16 LED, 12V-5W	
U= auto-diagnostics ²		LJ= MR16 LED, 12V-6W	
UN= auto-diagnostics, non-audible ²			

Example: C8SR52W-P1D/O

¹Not all options available with NEXUS[®] system.

Please consult your sales representative.

²Not available for 6V-72W

ES Series

All metal pictogram sign



Features

- Metal construction using Canadian cold-rolled steel
- Based on a modular design, this product comes pre-assembled for quick, easy installation
- Long-life white LED light source warranted for 10 years
- Two-wire universal AC input: 120 to 347VAC; two-wire standard DC input: 6 to 24VDC
- Energy efficient – consumes less than 2.5W in AC mode and only 1W in DC-remote
- Self-powered model delivers standard two hours of back-up lighting
- Universal mounting – end, wall or ceiling
- Easy access to wiring entry for all mounting options
- Canopy mounting system designed specifically for ease of installation
- Meets or exceeds CSA 22.2 No.141-15
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**



Power consumption

Model	AC specs	DC specs
AC only	120 to 347VAC < 2.5W	-
AC/DC standard	120 to 347VAC < 2.5W	6 to 24VDC < 1W
AC/special DC	120 to 347VAC < 2.5W	36, 48, 120VDC < 2.5W
Two-wire 120V AC/DC	120VAC < 2.5W	120VDC < 2.5W
Self-powered	120 to 347VAC < 2.5W	Ni-Cd battery Min. 2 hrs.

Ordering information

Series	Faces/mounting	Colour	Voltage	Options
ES= steel	1= single face	B= black	Z120 = 2-wires 120VAC/VDC	D4 = arrow down 45°
pictogram	universal mounting	G= grey	I = self-powered, 120 to 347VAC	D9 = arrow down
exit sign	2= double face	W= factory white	NEXP = Nexus®Pro IoT	TP = tamper-proof screws ¹
	universal mounting		U = 120 to 347VAC; 6 to 24VDC	U4 = arrow up 45°
	3= universal face, universal mounting		U00 = 120 to 347VAC only	U9 = arrow up
			U36 = 120 to 347VAC; 36VDC	VR = vandal resistant shield and tamper-proof screws ¹
			U48 = 120 to 347VAC; 48VDC	X = 1 LED strip (special wording)
			U120 = 120 to 347VAC; 120VDC	X2 = 2 LED strips (special wording)

Example: ES1WUVR

Typical specifications

Supply and install the **Emergi-Lite® ES Series** pictogram signs. The equipment shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 2.5W and universal 2-wire DC input voltage from 6 to 24VDC at 1W consumption for single and double face signs.

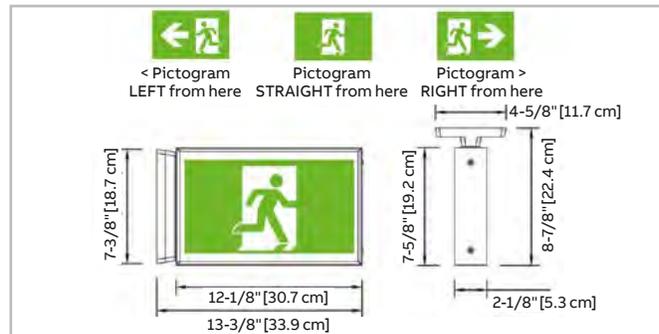
The sign shall be suitable for wall, end, or ceiling mount. The frame and back plate shall each be of one-piece steel construction. The faceplate(s) shall be constructed of robust clear polycarbonate panels with an opaque border coloured factory-white. The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The pictogram sign in a self-powered configuration shall use a sealed nickel-cadmium battery of 2.4V nominal voltage and shall stay illuminated during emergency operation for at least two hours upon AC failure.

The exit sign shall be listed CSA 22.2 No.141-15.

The equipment shall be **Emergi-Lite®** model: _____

Dimensions

Dimensions are approximate and subject to change.



Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

New product**CM-SS Series**

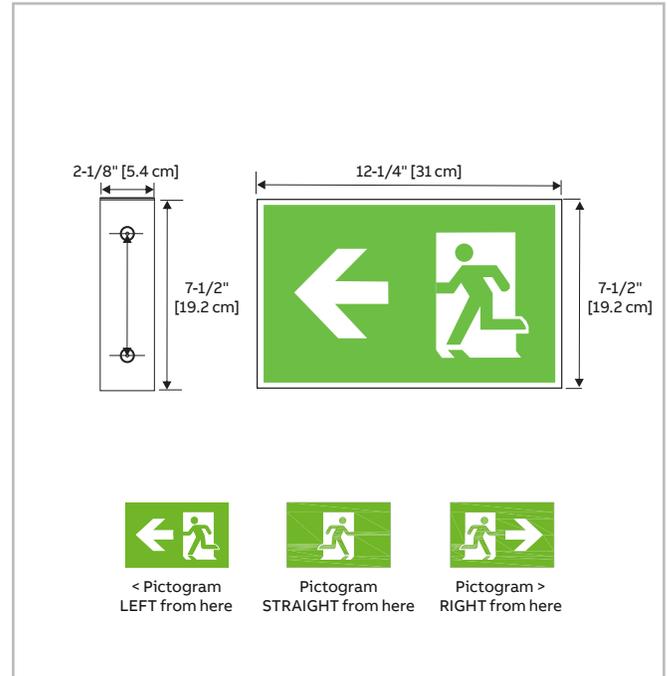
Steel pictogram sign

**Features**

- Steel housing and polycarbonate panel illuminated by high efficiency LEDs
- Universal side, wall and ceiling mount
- Universal single and double face
- 3 pictogram panels included: 1 with no arrow and 2 with arrows
- 120-347VAC 50/60Hz input
- Nickel-cadmium battery offering 120 minutes of emergency lighting
- Red LED charger monitor and momentary test switch (self-powered model)
- CSA C22.2 no.141-15 certified
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.

**Power consumption and unit rating**

Model	AC specs		
	Input wattage (AC/SP)	Current (AC/SP)	Efficiency (AC/SP)
CM-SS-E	120V, 50/60Hz	2W/3W	0.01A/0.02A
	277V, 50/60Hz	2.1W/3.2W	0.009A/0.013A
	347V, 50/60Hz	3W/4W	0.01A/0.017A

Ordering information

Series	Voltage	Brand
CM-SS	-AC= 120VAC-347VAC -SP=120VAC-347VAC, self-powered (120 minutes)	-E= Emergi-Lite®

Example: CM-SS-AC-E

EX10 Series

All metal exit sign



Features

- Two-wire universal AC input
- Pre-assembled for quick, easy installation
- Universal mounting – end, wall or ceiling
- Supplied with two stencil plates, red diffusing lenses and backplate
- Easy access to wiring entry for all mounting options
- Canopy mounting system designed specifically for ease of installation
- Universal, field-selectable chevrons (knockout)
- Energy efficient – consumes less than 3W in AC or DC mode
- Normal AC and emergency DC operation – 120 to 347VAC input; 6 to 24V DC input
- Long life energy-efficient ALINGAP technology LED light source
- Available with power pack; see EX10-P catalogue sheet
- CSA certified, meets or exceeds CSA 22.2 No. 141-15. requirements
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**

Typical specifications

Supply and install the **Emergi-Lite® EX10 Series** exit signs. The equipment shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 1.5W and universal 2-wire DC input voltage from 6 to 24VDC at less than 1.5W for single and double face signs. The sign shall be suitable for wall, end, or ceiling mount. The faceplates shall be constructed of steel and shall come standard with knockout chevrons. The frame shall be of one-piece steel construction.

The light source shall be light-emitting diodes (LED). The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. Red LEDs shall be of **ALINGAP** technology.

An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The exit sign in a self-powered configuration shall stay illuminated during emergency operation for at least 90 minutes upon AC failure.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No.141.

The equipment shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount



Housing colour



Black



Textured aluminum



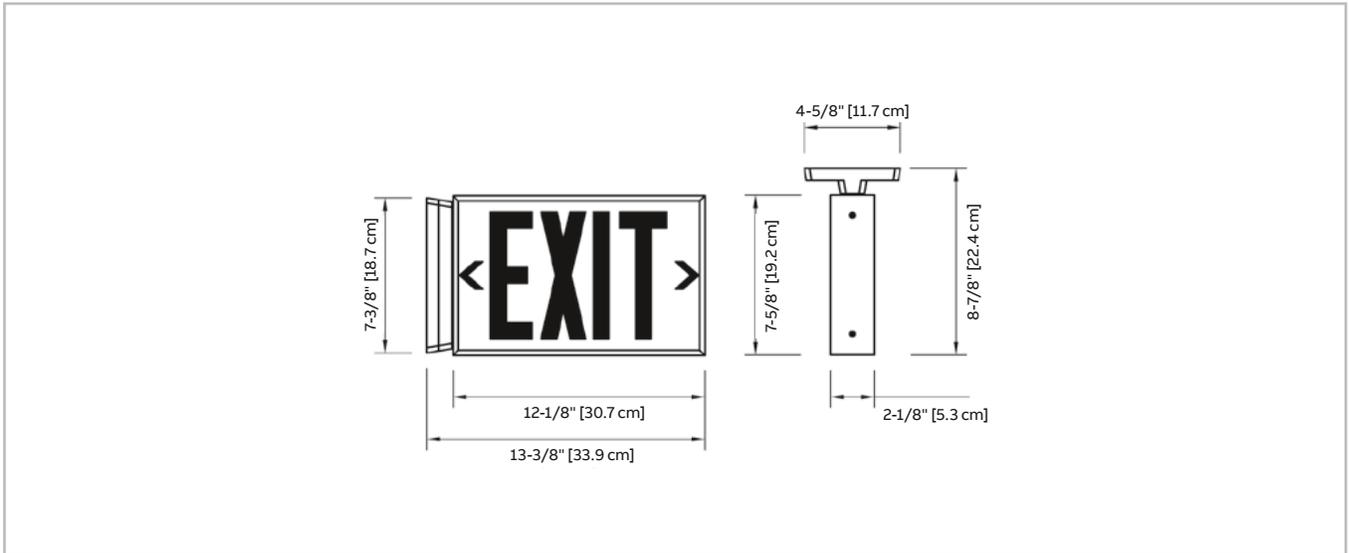
Factory white

EX10 Series

All metal exit sign

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model		AC specs		DC specs
AC-only, red	120 to 347VAC	Less than 1.5W	-	-
AC/DC standard, red	120 to 347VAC	Less than 1.5W	6 to 24VDC	Less than 1.5W
AC/special DC, red	120/277/347VAC	Less than 3W	36 or 48 or 120VDC	Less than 2.5W
Self-powered red	120 to 347VAC	Less than 3W	Ni-Cd battery	Min. 60 min.
AC-only, green	120 to 347VAC	Less than 1.5W	-	-
AC/DC standard, green	120 to 347VAC	Less than 1.5W	6 to 24VDC	Less than 2.5W
Self-powered green	120 to 347VAC	Less than 3W	Ni-Cd battery	Min. 90 min.

Ordering information

Series	Colour	Power source and voltage	Options
CL10= special wording	B = black TA = textured aluminum	-EM120-2W = 120VAC, 120VDC, 2 wires ¹ -I = self-powered, 120 to 347VAC	-G = green legend -TP = tamper-proof screws ¹
EX10= LED EXIT sign/ universal mount	W = factory white	-IDN2 = self-powered diagnostic, Ni-Cd 120/277VAC, (90 min.) -IDN3 = self-powered diagnostic, Ni-Cd 120/347VAC, (90 min.) -U = universal voltage, 120 to 347VAC, 6 to 24VDC -U00 = 120 to 347VAC, no DC2 -U36 = 120/277/347VAC, 36VDC ¹ -U48 = 120/277/347VAC, 48VDC ¹ -U120 = 120/347VAC, 120VDC ¹	-VRTP1 = vandal resistant shield with tamper-proof screws, single face ¹ -VRTP2 = vandal resistant shield with tamper-proof screws, double face ¹ -X2 = 2 LED strips (special wording)

Other colours available. For more information, please consult your sales representative

¹For green legend, consult your sales representative.

²Supply as single face

¹990.0119-E= tamper-proof bit (sold separately)

Example: EX10W-U

C8SR10 Series

All metal “Sortie” sign



Features

- Metal construction using Canadian cold-rolled steel with baked enamel finish – will not yellow
- Metal legend panel with red letter panel
- Universal mounting – end, wall or ceiling
- Easy access to wiring entry for all mounting options
- Canopy mounting system designed specifically for ease of installation
- Standard field-selectable directional knockout chevrons
- Long life, energy efficient **ALINGAP** technology light source
- Energy efficient – consumes less than 3W
- Normal AC and emergency DC operation – 120V to 347VAC and 6V to 24VDC input
- CSA certified, meets or exceeds CSA 22.2 No. 141. requirements
- Metal construction using Canadian cold-rolled steel
- Long-life, energy-efficient **ALINGAP** technology LED light source completely enclosed in acrylic module
- Also available with power pack; see SR catalogue sheet
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**

Power consumption



Model	AC specs		DC specs	
AC/DC standard, red	120 to 347VAC	< 1.5W	6 to 24VDC	< 1.5W
Self-powered red	120 to 347VAC	< 3W	Ni-cd battery	60 min.
Self-powered red	120 to 347VAC	< 3W	Ni-cd battery	90 min.

Ordering information

Series	Colour	Supply and voltage	Options
C8CL10 = special wording	B = black TA = textured aluminum	-I = self-powered 120 to 347VAC (60 minutes) -I2 = self-powered 120 to 347VAC (120 minutes)	-TP = tamper-proof screws ¹ -VRTP1 = vandal resistant shield with tamper-proof screws, single face ¹
C8SR10 = universal mounting LED SORTIE	W = factory white Other colours available.	-U = 120/347VAC, 6 to 24VDC	-VRTP2 = vandal resistant shield with tamper-proof screws, double face ¹ -X2 = 2 LED strips (special wording)

Example: C8SR10W-U-TP

¹990.0119-E= tamper-proof bit (sold separately)

Typical specifications

Supply and install the **Emergi-Lite® C8SR10 Series** LED “SORTIE” exit signs. The equipment shall operate with universal two-wire AC input voltage of 120VAC to 347VAC at less than 1.5W and universal two-wire DC input voltage from 6VDC to 24VDC at less than 1.5W for single or double face signs.

The sign shall be suitable for wall, end or ceiling mount. The faceplates shall be constructed of steel and shall come standard with knockout chevrons. The frame shall be of a one-piece steel construction.

The light source shall be light emitting diodes (LED). The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face.

Red LED technology shall be **ALINGAP**. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination.

The exit sign in a self-powered configuration shall stay illuminated during emergency operation for at least 60 minutes upon AC failure.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No. 141.

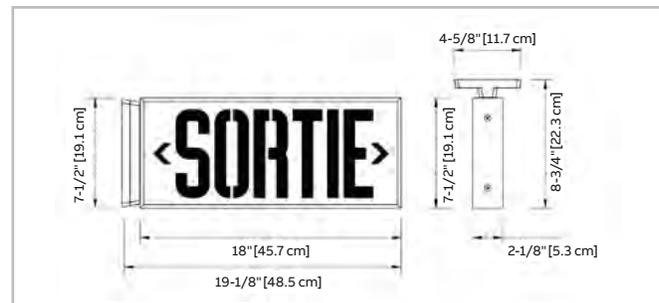
The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0057-E	Wall mount
460.0048-E	End mount
460.0058-E	Ceiling mount

Dimensions

Dimensions are approximate and subject to change.



C8ES10 & C8SE10 Series

Bilingual steel sign



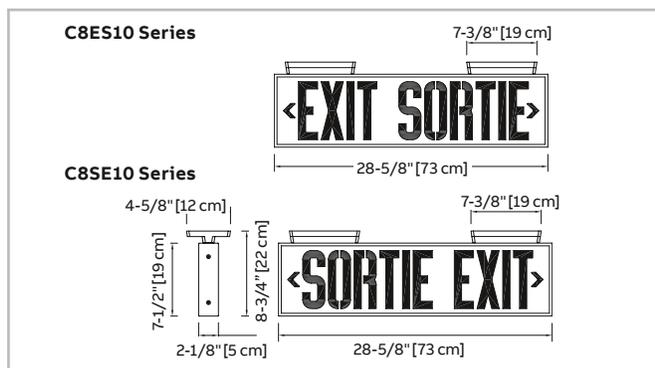
Features

- Single illumination module lights both single and double face exit signs
- Highly energy efficient – consumes a maximum of 5.5W in AC or DC mode
- Normal AC and emergency DC operation – 120 to 347V AC input; 6 to 24V DC input
- Meets or exceeds CSA 22.2 No. 141 requirements
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**



Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Supply and install the **Emergi-Lite® bilingual C8ES10 or C8SE10 Series** LED exit sign. The equipment shall operate with universal AC input voltage of 120 to 347VAC at less than 3W and universal two-wire DC input voltage from 6VDC to 24VDC at less than 3.5W for single and double face signs. The frame shall be of one-piece steel construction and have a maximum depth of 2-1/8". The faceplate(s) shall be steel and come standard with knockout chevrons. The equipment shall have two (2) canopies that shall fasten for installation in ceiling-mount applications. The light source shall be light emitting diodes (LED). The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. Red LED technology shall be **ALINGAP**. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination.

The exit sign in a self-powered configuration shall stay illuminated during emergency operation for at least minutes upon AC failure.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No.141.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0059-E	Wall mount
460.0092-E	Ceiling mount

Power consumption and unit rating

Model	AC specs	DC specs
AC/DC standard, red	120 to 347VAC < 3W	6 to 24VDC < 3.5W
AC/special DC, red	120/277/347VAC < 5W	36, 48 or 120VDC < 5W
Self-powered red	120 to 347VAC < 6W	Ni-cd battery Min. 60 or 120 minutes

Ordering information

Series	Lettering	Faces	Colour	Power source and voltage	Options
C8= LED C860 approved	CL= special wording ES= EXIT SORTIE 6" letters SE= SORTIE EXIT 6" letters	12= single face 13= double face	B= black TG= textured grey W= factory white	-EM120-2M= 120VAC, 120VDC, 2 wires -I= 120 to 347VAC, self-powered, (60 minutes) -I2= 120 to 347VAC self-powered, (120 minutes) -U= 120 to 347VAC, 6 to 24 VDC -U36= 120/277/347VAC - 36VDC -U48= 120/277/347VAC - 48VDC -U120= 120/277/347VAC - 120VDC	Blank= 2 canopies supplied -TP= tamper-proof screws ¹ -VRTP= vandal resistant shield with tamper-proof screws ¹ -X2= 2 LED strips (special wording)

Example: C8ES12W-U-VRTP

¹990.0119-E= tamper-proof bit (sold separately)

C8ES70 & C8SE70 Series

Bilingual extruded aluminum exit sign



Features

- Durable, extruded, one-piece aluminum housing
- Long-life, energy-efficient **ALINGAP** technology red LED light source completely enclosed in acrylic module
- Single illumination module lights both single and double face exit signs
- Highly energy efficient, consumes a maximum of 5.5W in AC or DC mode (standard model)
- Normal AC and emergency DC operation – 120V to 347VAC and 6V to 24VDC input
- CSA certified, meets or exceeds CSA 22.2 No. 141 requirements
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® bilingual C8ES70 or C8SE70 Series LED** exit sign. The equipment shall operate with universal AC input voltage of 120 to 347VAC at less than 2W and universal two-wire DC input voltage from 6VDC to 24VDC at less than 3.5W for single and double face signs. The housing shall be constructed of rugged extruded aluminum and have a maximum depth of 2-1/2". The faceplate(s) shall be constructed of extruded aluminum and come standard with knockout chevrons. The equipment shall have three (3) canopies that shall fasten for installation in either ceiling- or wall-mount applications. The light source shall be light emitting diodes (LED).

The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. Red LED technology shall be **ALINGAP** An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination.

The exit sign in a self-powered configuration shall be equipped with a nickel-cadmium battery and shall stay illuminated during emergency operation for at least 60 minutes upon AC failure.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No. 141.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0059-E	Wall mount
460.0092-E	Ceiling mount

Power consumption and unit rating

Model	AC specs		DC specs	
AC/ standard DC, red	120 to 347VAC	Less than 3W	6 to 24VDC	Less than 3.5W
AC/ special DC, red	120/277/347VAC	Less than 5.5W	36 or 48 or 120VDC	Less than 5.5W
Self-powered, red	120/347VAC	Less than 6W	Nickel-cadmium battery	Min. 60 or 120 minutes

Housing colour



Black



Brushed aluminum



Textured aluminum



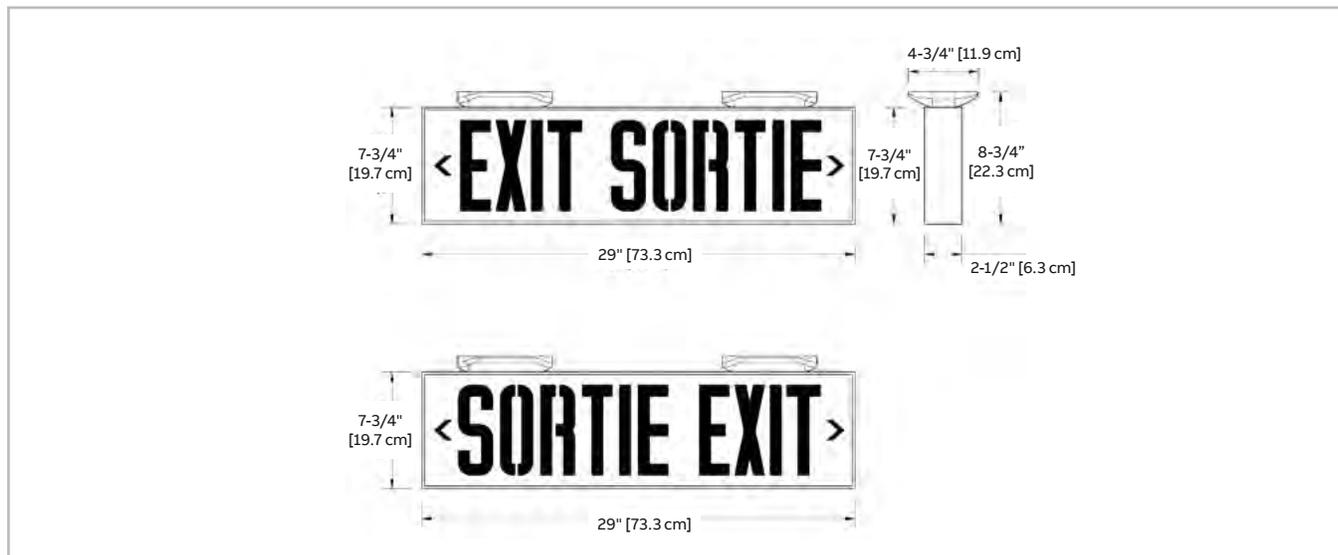
Factory white

C8ES70 & C8SE70 Series

Bilingual extruded aluminum exit sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Light source	Lettering	Face	Colour	Power source and voltage	Options
C8= LED	ES= exit sortie 6" letters SE= sortie exit 6" letters	72= single face 73= double face	B= black BA= brushed aluminum TA= textured aluminum W= factory white	-EM120-2M= 120VAC, 120VDC, 2 wires -I= 120 to 347VAC, self-powered, (60 minutes) -I2= 120 to 347VAC self-powered, (120 minutes) -U= 120 to 347VAC, 6 to 24VDC -U36= 120/277/347VAC - 36VDC -U48= 120/277/347VAC - 48VDC -U120= 120/277/347VAC - 120VDC	-TP= tamper-proof screws ¹ -VRTP= polycarbonate shield with tamper-proof screws ¹ -3C= 3 canopies

Example: C8ES72W-U-TP

¹990.0119-E= tamper-proof bit (sold separately)

ESC Series

Steel pictogram combination unit



Features

- Universal mounting: end, wall or ceiling
- Long-life white LED light sources is warranted for 10 years
- Sealed, maintenance-free, 6V or 12V lead-calcium battery
- Remote load capacity: 80W up to 560' of egress illumination when using LED remote heads
- Meets or exceeds CSA 22.2 No.141-15
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus Nexus®Pro



Typical specifications

Supply and install **Emergi-Lite® ESC Series** combination emergency light battery unit and pictogram sign. The unit shall be made of solid steel sheet metal and be suitable for universal mounting: wall, end, or ceiling. The legend housing shall have a maximum depth of 2-1/8". The legend face plate(s) shall be constructed of robust clear polycarbonate panel(s) with an opaque border coloured factorywhite.

The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The power pack shall include one circuit board with test switch and pilot light for battery charger and legend LED driver. The unit shall include one 6V, maintenance-free, sealed lead-calcium battery and shall provide minimum 30 minutes of emergency lighting upon AC power failure. The electrical power available for emergency lights shall be 28W or up to 72W, for 6V and 50W or up to 80W for 12V, as specified. The emergency heads shall require no tools to adjust and aim. The equipment shall meet or exceed the requirements of CSA 22.2 No.141-15 standard.

The equipment shall be **Emergi-Lite®** model: _____

Wire guards

Ordering code	Description
460.0081-E	Wall mount
460.0060-E	Ceiling mount

Power consumption and unit rating

Model	AC specs	Emergency power available for lamps				
		30 min	1H00	1H30	2H00	4H00
Pictogram module	Less than 1.5W	-	-	-	-	-
ESC28	120/347VAC	28	16	12	9	-
ESC44		44	26	18	15	7
ESC-1250		50	29	21	16	8
ESC-1280		80	46	32	27	13
		0.25/0.09 A				

Housing colour



Black



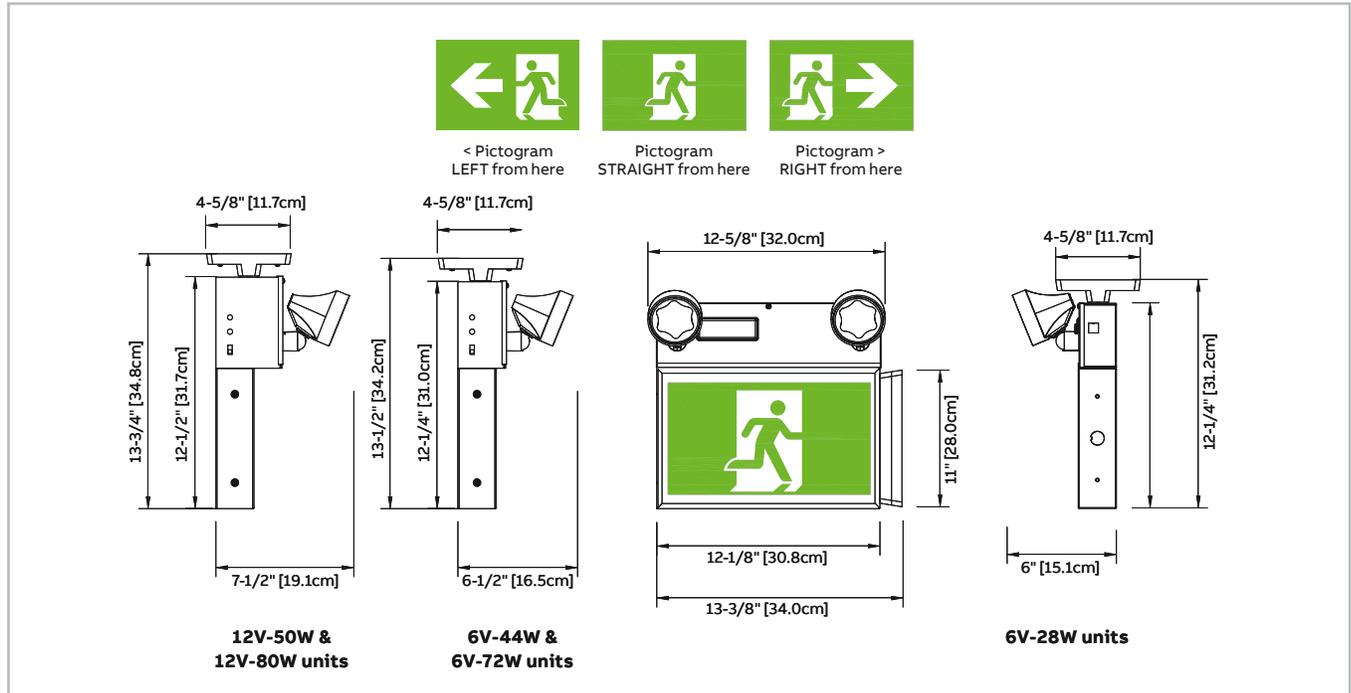
Factory white

ESC Series

Steel pictogram combination unit

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Power em. lights	Colour	Heads	Head style/wattage	Voltage	Options
ESC= pictogram steel combo exit sign	28= 6V-28W	B= black	Blank= no heads	Blank= no heads	Blank= 120/347VAC	D3= time delay (15 minutes)
	44= 6V-44W	W= factory white	1= one head	LA= MR16 LED, 6V-4W	-2= 120/277VAC input	D4= arrow down 45°
	1250= 12V-50W		2= two heads	LB= MR16 LED, 6V-5W		D9= arrow down
	1280= 12V-80W			LG= MR16 LED, 12V-4W		DF= double face sign
				LI= MR16 LED, 12V-5W		NEX= NEXUS® system interface ¹
				LJ= MR16 LED, 12V-6W		NEXP= NEXUS®Pro IoT ¹
						NEXRF= wireless NEXUS® system interface ¹
						-TP= tamper-proof screws ²
						U= auto-diagnostics ¹
						U9= arrow up
						U4= arrow up 45°
						UN= auto-diagnostics, non audible ¹

Example: ESC28W2LA

¹Minimum lamp load required: 20% of unit capacity
²990.0119-E= tamper-proof bit (sold separately)

EX10-P & LPEX10-P Series

Metal combination unit



Features

- Dual input voltages 120/347VAC
- Comes pre-assembled for quick, easy installation
- Universal mounting – end, wall or ceiling
- Easy access to wiring entry for all mounting options
- Canopy mounting system designed specifically for ease of installation
- Universal fields-selectable chevrons (knock out)
- Energy efficient – complete unit consumes less than 5W
- CSA certified, meets or exceeds CSA 22.2 No. 141 requirements
- Long life, energy-efficient LED light source, mounted inside the exit housing, not on the faceplate
- **Warranty details at: www.emergi-lite.ca**



Extra faceplates

Ordering code	Description
005406-E	Factory white faceplate + red diffuser
005407-E	Black faceplate + red diffuser
005408-E	Silver grey faceplate + red diffuser
005409-E	Factory white faceplate + green diffuser
005410-E	Black faceplate + green diffuser
005411-E	Silver grey faceplate + green diffuser

Power consumption

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
Exit sign module	Less than 1.5W	-	-	-	-	-
EX10-P	12/347VAC	28	16	12	9	-
EX10-P4		44	26	18	15	7
EX10-P7		72	42	30	24	12
LPEX10-P3A	Less than 5W	76	21	15	12	6
LPEX10-P7A	Less than 5W	72	42	30	24	12

Housing colour



Black



Grey



Factory white

Typical specifications

Supply and install the **Emergi-Lite® EX10-P & LPEX10-P Series** LED exit sign and power pack combination series. The exit housing and faceplates shall be constructed of steel. The exit sign shall have a maximum depth of 2-1/2". The faceplate(s) shall come standard with knockout chevrons. The light source for the exit sign shall be light-emitting diodes (LED). The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. Red LEDs shall be of **ALINGAP** technology. An LED sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The power pack shall be a completely self-contained emergency unit with its own charger and rechargeable battery. The housing shall be made of steel. The power pack shall include a test switch and high charge pilot light. The equipment shall be designed to furnish exit illumination from the normal AC source. When a power failure occurs the exit sign along with the emergency heads shall illuminate for a minimum of 30 minutes. The power available for emergency lights shall be 28W or as otherwise specified. The heads shall require no tools to adjust and aim. The heads will be of a durable thermoplastic construction and use 6V, 9W and 12V, 9W lamps or as otherwise specified.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No. 141.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

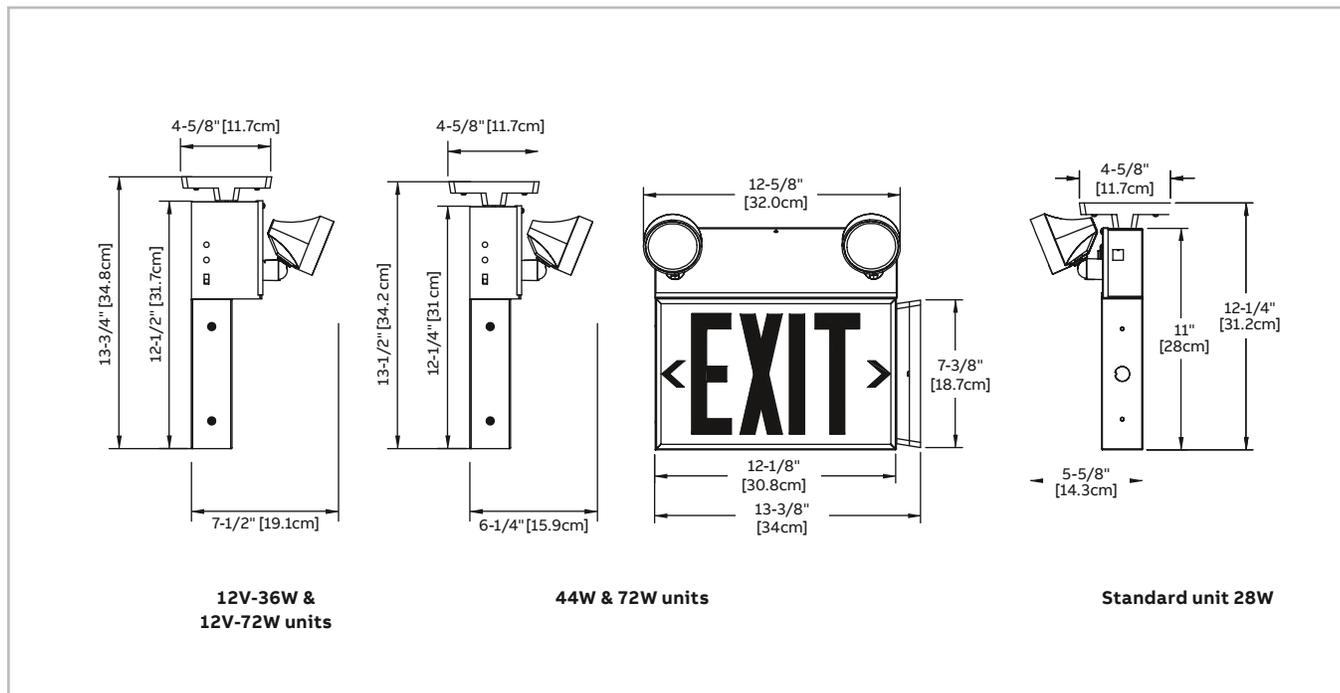
Ordering code	Description
460.0081-E	Wall mount
460.0060-E	Ceiling mount

EX10-P & LPEX10-P Series

Metal combination unit

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Colour	Voltage	Powerpack	Charger type	Options	# of heads	Head style/wattage
6 volts	EX10= B= black G= grey ¹ W= factory white	Blank= 120/347VAC -2= 120/277VAC	-P= 6V-28W -P4= 6V-44W -P7= 6V-72W	Blank= standard NEX= NEXUS® system interface ¹ NEXRF= wireless NEXUS® system interface ¹	Blank= no options D= time delay (15 minutes) G= green legend TP= tamper-proof screws*	/0= no heads /1= one head /2= two heads	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W
12 volts	LPEX10= B= black G= grey ¹ W= factory white	Blank= 120/347VAC -2= 120/277VAC	-P3A= 12V-36W -P7A= 12V-72W	Blank= standard NEX= NEXUS® system interface NEXRF= wireless NEXUS® system interface U= auto-diagnostics UN= auto-diagnostics, non-audible	Blank= no options D= time delay (15 minutes) G= green legend TP= tamper-proof screws ¹	/0= no heads /1= one head /2= two heads	LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W
Example: EX10W-P4/2LB							¹ 990.0119-E= tamper-proof bit (sold separately)

SR Series

All metal “Sortie” combination unit

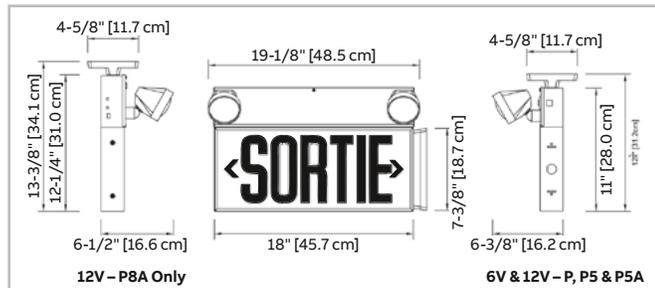


Features

- Pre-assembled for ease of installation
- Metal housing with baked enamel finish – will not yellow
- Easy access to wiring entry
- Exit sign with long life, **ALINGAP** LED light source
- Energy efficient, consumes less than 3W in stand-by mode
- Power pack comes with premium lead-calcium battery
- Other colours and options are available upon request
- CSA certified, meets or exceeds CSA 22.2 No. 141 requirements
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
Sortie sign module	Less than 2W	-	-	-	-	-
R27= 6V-27W	0.25/0.08 A	27	15	12	9	-
R50= 6V-50W	0.25/0.08 A	50	30	20	16	8
12R50= 12V-50W	0.25/0.08 A	50	30	20	16	8
12R80= 12V-80W	0.25/0.08 A	80	45	36	27	12

Ordering information

Series	Colour	Voltage	Voltage/supply	Options	# of heads	Head style/ wattage
SR10= universal steel mount canopy with two faceplates	B= black TA= textured aluminum ¹	Blank= 120/347VAC	-P= 6V-27W -P5= 6V-50W -P5A= 12V-50W -P8A= 12V-80W	Blank= no options D3= time delay (15 minutes) -TP= tamper-proof screws ¹	/0= no heads /1= one head /2= two heads	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W

Example: SR12W-P/0

¹Black heads

¹990.0119-E= tamper-proof bit (sold separately)

Typical specifications

Supply and install the **Emergi-Lite® SR Series** LED “SORTIE” exit sign with power pack series. The exit housing and the faceplate(s) shall be constructed of steel. The exit sign shall have a maximum depth of 2-1/2". The faceplate(s) shall come standard with knockout chevrons.

The light source shall be light emitting diodes (LED). Red LED technology shall be **ALINGAP**. The LED lamps shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing, not on the face. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination.

The power pack shall be a completely self-contained emergency unit with its own charger and rechargeable battery. The housing shall be made of steel. The unit shall be designed to furnish exit illumination from the normal AC source. When a power failure occurs, the mounted heads along with the exit sign are illuminated in emergency mode for a minimum of 30 minutes. The power pack shall be furnished with a test switch and high charge pilot light.

The heads shall require no tools to adjust and aim. The heads will be constructed of durable thermoplastic and use 6V, 4W lamps or as otherwise specified.

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No.141.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0078-E	Wall mount
460.0060-E	Ceiling mount

New product

ESC-BLD Series

Steel combination unit

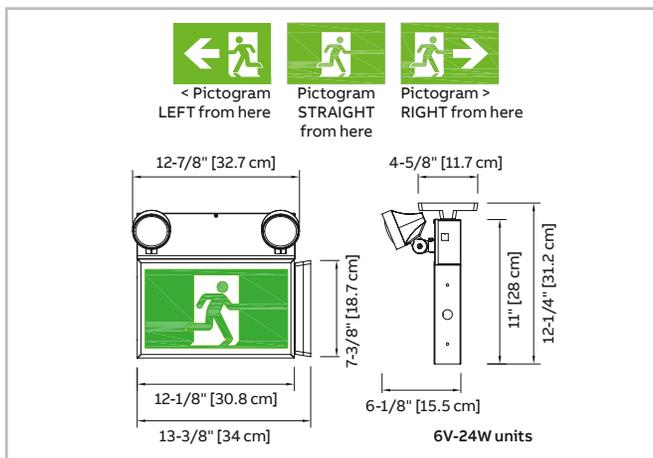


Features

- “Built-in” 3W LED heads
- Universal mounting: end, wall or ceiling
- Meets or exceeds CSA 22.2 No.141-15 standard for unit equipment and pictogram signs
- Sealed, maintenance-free, 6V lead-calcium battery
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Supply and install **Emergi-Lite® ESC-BLD Series** combination emergency light battery unit and pictogram sign. The unit shall be made of solid steel sheet metal and be suitable for universal mounting: wall, end, or ceiling. The legend housing shall have a maximum depth of 2-1/8". The legend faceplate(s) shall be constructed of robust clear polycarbonate panel(s) with an opaque border coloured factory-white. The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The power pack shall include one circuit board with test switch and pilot light for battery charger and legend LED driver. The unit shall include one 6V, maintenance-free, sealed lead-calcium battery and shall provide minimum 30 minutes of emergency lighting upon AC power failure. The electrical power available for emergency lights shall be 24W.

The equipment shall meet or exceed the requirements of CSA 22.2 No.141-15 standard.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0081-E	Wall mount
460.0060-E	Ceiling mount

Power consumption and unit rating

Model	AC specs	Emergency power available for lamps					
		30 min	1H00	1H30	2H00	4H00	
Pictogram module	120/347VAC	Less than 1.5W	-	-	-	-	
ESC24		0.13/0.05 A	24	14	10	8	4

Ordering information

Series	Voltage/capacity	Colour	Heads	Head style & power	Options
ESC= pictogram steel combo sign	24= 6V-24W	W= factory white	1= one head 2= two heads	BLD= built-in LED	-2= 120/277VAC input DF= double face sign

Example: ESC24W2BLD

New product

CM-SC Series

Steel pictogram combination unit

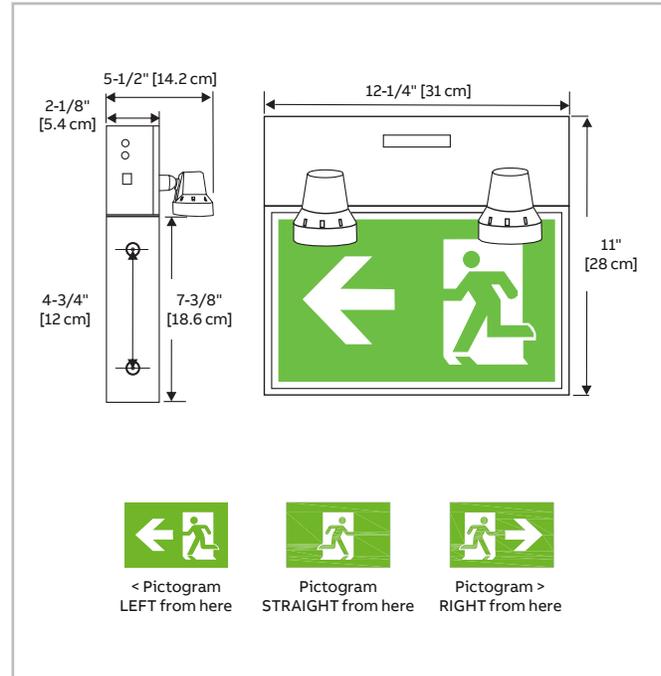


Features

- Steel housing with thermoplastic fully adjustable 2W LED heads
- Universal ceiling, side or wall mount
- Universal single and double face
- 3 pictogram panels included: 1 with no arrow and 2 with arrows
- Can power CM-R1 and CM-R2 remote fixtures only
- 120VAC-347VAC, 50/60Hz input
- Lead-acid battery provides minimum 120 minutes of emergency lighting
- Red LED charger monitor
- CSA C22.2 no.141-10 listed
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs			
	Wattage	Current	Efficiency	
CM-SC-E	120V, 50/60Hz	3.2W	0.03A	0.97P
	277V, 50/60Hz	6.5W	0.025A	0.92PF
	347V, 50/60Hz	3.6W	0.01A	0.92P

Ordering information

Series	Voltage	Brand
CM-SC	Blank= 120VAC-347VAC	-E= Emergi-Lite®

Example: CM-SC-E

EP Series

All-plastic commercial-grade pictogram sign, universal-mount and snap-fit



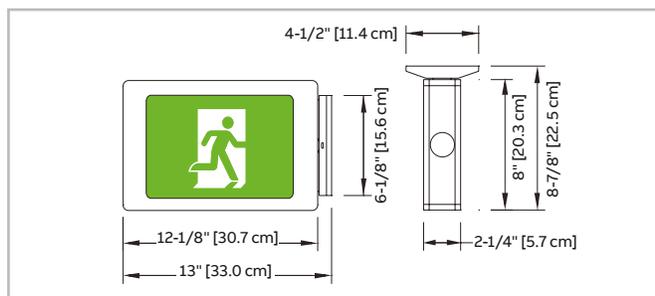
Features

The **Emergi-Lite® EP Series** is a compact pictogram sign with an all-in-one, snap-fit design. Easy to install and affordable, the **EP Series** pictogram sign is ideally suited for commercial applications, especially those in which large numbers of pictogram signs are required.

- Durable, factory white, thermoplastic housing
- Universal mounting: wall-, end-, or ceiling-mount
- Long-life white LED light source
- Certified CSA 22.2 No.141-10 for pictogram safety signs
- Two-wire universal AC input: 120 to 347VAC; two-wire standard DC input: 6 to 24VDC
- Energy efficient – consumes less than 2.5W in AC mode and only 1W in DC-remote
- Self-powered model delivers standard two hours of back-up lighting
- Optional vandal-proof shield and tamper-proof screws
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Supply and install the **Emergi-Lite® EP** pictogram sign. The equipment shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 2.5W and universal 2-wire DC input voltage from 6 to 24VDC at 1W consumption for single and double face signs. The sign shall come standard with a canopy and shall be suitable for wall, end, or ceiling mounting. The frame, faceplates, back plate and canopy shall each be constructed of a one-piece UV-stabilized thermoplastic material colored factory white. The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The equipment in a self-powered configuration shall use a sealed nickel-cadmium battery of 2.4V nominal voltage. The equipment shall recharge the battery in 24 hours and stay illuminated at least two hours upon AC failure.

The pictogram sign shall be listed to the CSA 22.2 No.141-10 standard.

The equipment shall be **Emergi-Lite®** model: _____.

Power consumption and unit rating

Model	AC specs		DC specs	
AC only	120 to 347VAC	< 2.5W	–	–
AC/DC standard	120 to 347VAC	< 2.5W	6 to 24VDC	< 1.5W
AC/special DC	120 to 347VAC	< 2.5W	36, 48, 120VDC	< 2.5W
Two-wire 120V AC/DC	120VAC	< 2.5W	120VDC	< 2.5W
Self-powered	120 to 347VAC	< 3W	Ni-cd battery	Min. 2 hrs.

Housing colour

Black

Factory white

Ordering information

Series	Faces/mounting	Enclosure colour	Voltage	Options
EP= plastic sign	1= single face, universal mounting 2= double face, universal mounting 3= universal face, universal mounting	B= black W= factory white	24= 2-wire 6 to 24VDC 2120= 2-wire 120VAC/VDC I= 120 to 347VAC; self-powered U= universal 120 to 347VAC; 6 to 24VDC U00= 120 to 347VAC only U36= 120 to 347VAC; 36VDC U48= 120 to 347VAC; 48VDC U120= 347VAC; 120VDC	CL= special wording D4= arrow down 45° D9= arrow down TP= tamper-proof screws ¹ U4= arrow up 45° U9= arrow up VR= vandal resistant shield with tamper-proof screws ¹ ¹ 990.0119-E= tamper-proof bit (sold separately) Specify single or double face only.

Example: EP1WUVR

Premier™ Series

Thermoplastic exit sign



Typical specifications

Supply and install the **Emergi-Lite® Premier™ Series** exit sign. The standard equipment shall operate with a dual-voltage input of 120/347VAC with less than 2W of consumption and a universal two-wire DC input voltage from 6VDC to 48VDC at less than 2.5W for single and double face signs. The exit shall be suitable for wall, end, or ceiling mount. The faceplate shall be constructed of durable high impact thermoplastic. No screws are necessary to hold the faceplate or the back plate to the housing. The faceplates shall come standard with snap in/out chevrons. The frame shall consist of one-piece factory white thermoplastic. The light source shall be light emitting diodes (LEDs). The LEDs shall provide illumination in normal and emergency operation and shall be mounted inside the exit housing. Red LED technology shall be **ALINGAP**. An LED-sensitive diffuser shall be mounted in front of the LEDs to provide the 6" high by 3/4" stroke letters with even illumination. The exit sign shall be C860 approved. The exit sign in a self-powered configuration shall be equipped with a sealed, maintenance-free nickel-cadmium battery. The equipment shall recharge the battery in 24 hours and stay illuminated at least 90 minutes upon AC failure. The self-powered model equipped with advanced diagnostic shall self-test by simulating a power failure for one minute every 30 days, 30 minutes every 60 days and 90 minutes every 360 days. A diagnostic circuit shall continuously monitor the performance of the battery, charger module and LED lamps. Upon failure detection the system shall display the error on the AC pilot lamp, which will change color from green to red and will flash with a specific code. The red light shall be steady-on in case of "Battery Disconnect"; it shall flash with one blink for "Battery failure", two blinks for "Charger failure" and four blinks for "LED lamp failure. A label with the diagnostic legend shall be visible next to the pilot light.

The equipment shall be **Emergi-Lite®** model: _____ .

Features

- Durable, injection-molded, thermoplastic housing
- Long-life, energy-efficient **ALINGAP** LED light source
- Universal mounting - supplied standard with two stencil plates, red diffusing lens and backplate
- Universal, field-selectable snap in/out chevrons
- Available for wall, end or ceiling mounting
- Energy efficient – consumes less than 3.5W
- Normal AC and emergency DC operation with dual AC input of 120V/347V and universal DC input of 6V to 48V
- Comes with the **Emergi-Lite®** EZ2 canopy for quick and easy installation – see page 40 for more information
- CSA certified, meets or exceeds CSA 22.2 No. 141 requirements
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Premier™ family



Premier™ Combo Series

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

Power consumption and unit rating

Model	AC specs	DC specs
AC only	120/347VAC Less than 2.5W	-
AC/DC remote	120/347VAC Less than 2W	6 to 48VDC Less than 1.5W
Self-powered	120/347VAC Less than 3.5W	Nickel-cadmium battery Minimum 90 minutes
Self-powered with diagnostic	120/347VAC Less than 3W	Nickel-cadmium battery Minimum 90 minutes

Housing colour



Black



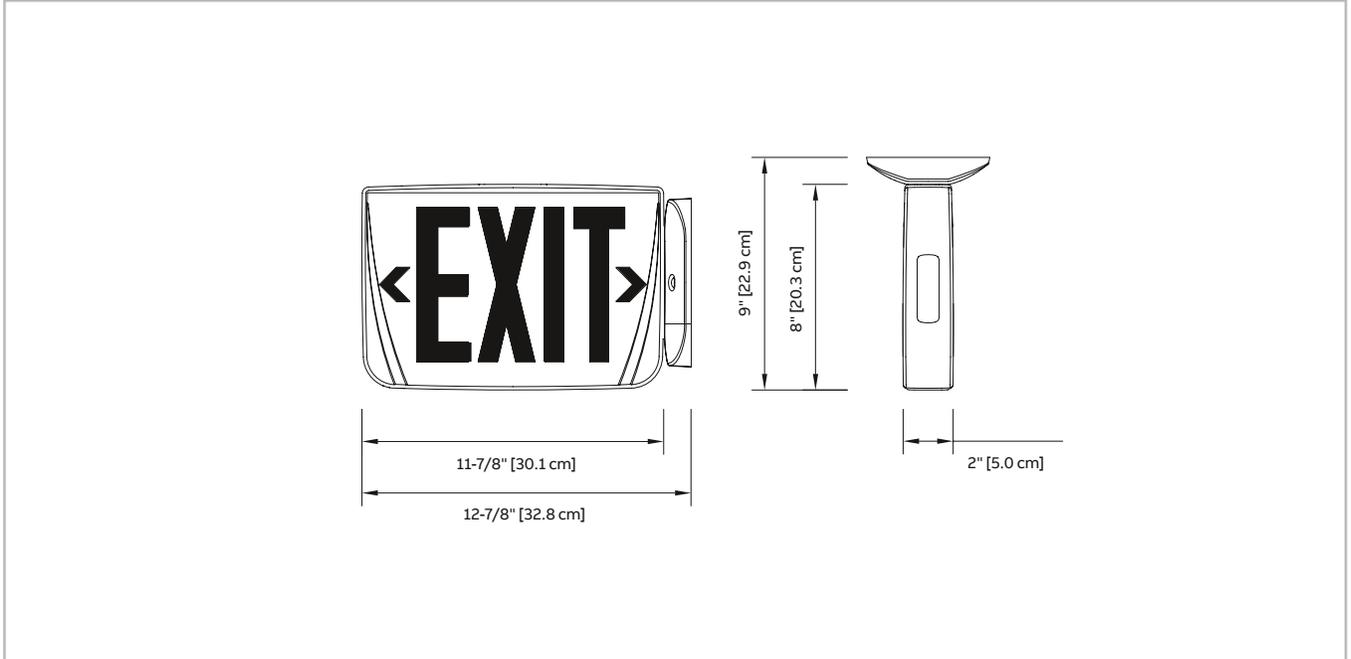
Factory white

Premier™ Series

Thermoplastic exit sign

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Colour	Unit capacity	Voltage	Legend colour	Options
PRE= LED plastic universal exit sign	B= black W= factory white	AC= AC only AC2CI= AC dual circuit (2X 120V) IN= self-powered Ni-Cd IDN= self-powered with self diagnostics nickel-cadmium NEX= NEXUS® system interface¹ NEXRF= wireless NEXUS® system interface¹ UD= 120/277 or 120/347VAC & 6 to 48VDC	Blank= dual AC circuit only 2= 120/277VAC 3= 120/347VAC	R= red R1= red single face¹ R2= red double face¹ G= green G1= green single face¹ G2= green double face¹	BA= brushed aluminum stencil SW1= special wording TP= tamper-proof screws¹ VRTP= polycarbonate shield with tamper-proof screws¹

Example: PREWAC2R

¹Not all options available with NEXUS® system. Please consult your sales representative.

¹Specify number of faces for TP & VRTP

¹990.0119-E= tamper-proof bit (sold separately) Specify single or double face.

Premier™ Series

Thermoplastic pictogram combination unit



Features

The **Premier™ Series** of combination units (unit equipment and pictogram sign) are designed to complement designer's look and ease of installation with performance and cost-competitiveness.

- One-pack combination of battery unit and pictogram sign, a compact and contemporary design
- Durable injection-molded thermoplastic housing with push-to-snap design
- Available in single or double face configurations both with means for ceiling mounting
- Supplied standard with two (single face) or three pictogram films (universal face) for direction selection
- Two LED lamps, shielded by a clear polycarbonate cover
- Twin LED lights provide up to 89 feet of egress illumination on a 6-foot wide path
- Sealed, maintenance-free, Lead-Calcium or Nickel-Metal-Hydride batteries
- Remote load capacity: one unit equipment with LED remote lights covers up to 712 feet (217m) of egress illumination
- Dual voltage input: 120/347VAC or 120/277VAC
- Comes standard with non-audible auto-diagnostics
- Optional vandal-resistant shield with tamper-proof screws
- Certified CSA C22.2 No.141
- Optional: Nexus® Compatible
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Power consumption

Model	AC specs	Wattage capacity					
		30 min	1H00	1H30	2H00	4H00	
Pictogram sign module	120/347VAC	Less than 4W	-	-	-	-	-
L2	120/347VAC	0.12/0.04 A	25	15	12	8	-
L5			50	30	24	16	8
L5A			50	30	24	16	8
H5A	120/347VAC	0.24/0.08 A	50	36	24	18	9

Housing colour



Black



Factory white

Typical specifications

Supply and install the **Emergi-Lite® Premier™ Series** combination of unit equipment and pictogram sign. The unit frame and faceplates shall be made of injection-molded thermoplastic. The faceplates shall feature a uniformly illuminated legend. The light source shall be long-life white light-emitting diodes (LED). The unit shall be equipped with two emergency heads with tool-less adjustable swivels and long-life LED lamps of _____ V and _____ W. Each lamp shall be protected by a snap-on, shock-absorbent, transparent polycarbonate cover.

The AC input voltage shall be standard 120/347VAC 60Hz. The unit shall be equipped with a test switch and a green pilot light, located on the faceplate above the pictogram legend. The battery charger shall be driven by a micro-controller. All electronic circuitry (charger, LED driver, signage LED's) shall be installed on a single printed circuit board PCB. The unit equipped with self-testing/self-diagnostic features shall automatically self test for one minute every 30 days, 10 minutes in the 6th month and 30 minutes annually. When a fault is detected, the bi-color pilot-light shall turn from green to red and shall flash following a particular code. The code description shall be displayed on a label next to the pilot light to identify the failure type: battery, charger circuitry, LED lamps for signage, or emergency lights.

The combination unit shall meet or exceed the standard CSA C22.2 No.141-10.

The pictogram combo unit shall be **Emergi-Lite®** model:

Wire guards

Ordering code	
460.0078-E	Wall mount

Premier™ family



Premier™ Exit Series



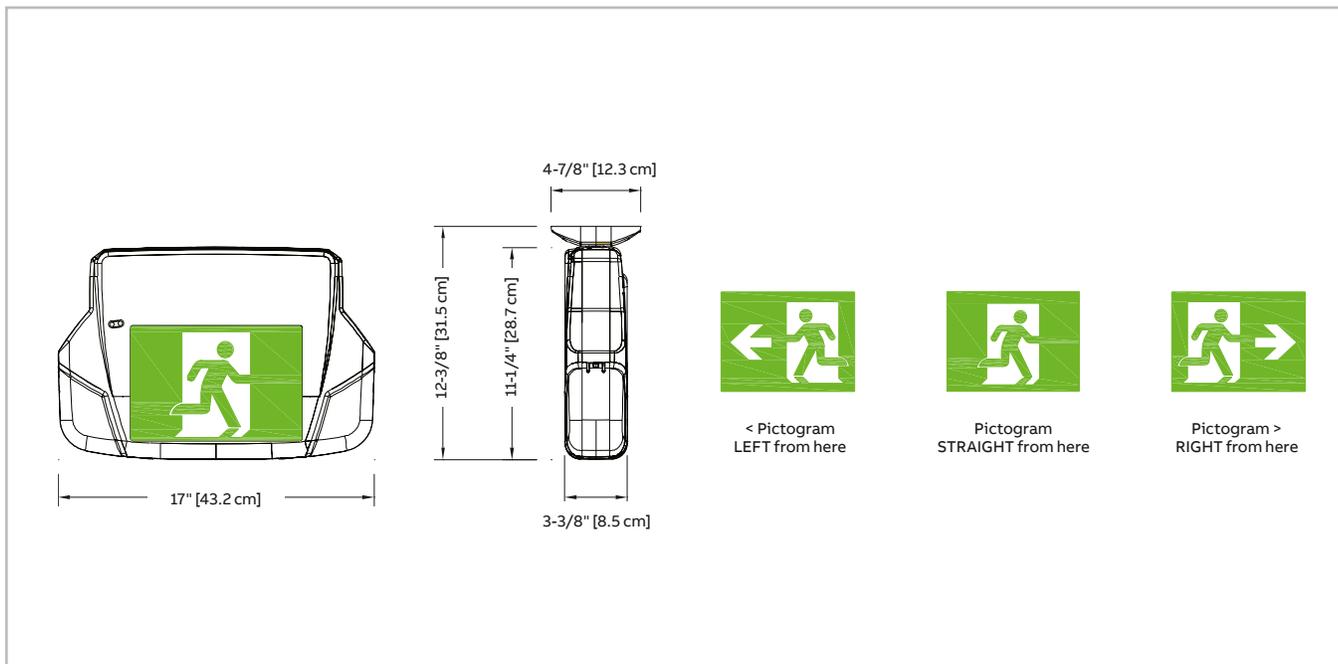
Premier™ Combo Series

Premier™ Series

Thermoplastic pictogram combination unit

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Colour	Voltage	Powerpack	Charger type
PREP1= single face ceiling or wall mount	B= black W= factory white	2= 120/277VAC 3= 120/347VAC	-H5A= 12V-50W NiMH -L2= 6V-25W lead- calcium -L5= 6V-50W lead- calcium -L5A= 12V-50W lead- calcium	Blank= auto-diagnostics, non audible NEX= NEXUS® system interface NEXRF= wireless NEXUS® system interface U= auto-diagnostics, audible
PREP1N= single face wall mount (less canopy)				
PREP2= double face ceiling mount				
PREPU= universal, 2 faces backplate and canopy				

Options	# of heads	Head style/wattage
Blank= no options	/0= no heads	LA= MR16 LED, 6V-4W
D3= time delay (15 minutes)	/2= two heads	LB= MR16 LED, 6V-5W
D4= arrow down 45°		LG= MR16 LED, 12V-4W
D9= arrow down		LI= MR16 LED, 12V-5W
TP= tamper-proof screws ¹		LJ= MR16 LED, 12V-6W
U4= arrow up 45°		
U9= arrow up		
VR= polycarbonate shield with tamper-proof screws ¹		

Example: PREPW-L2/2LA

¹091957-E= tamper-proof bit (sold separately)
VR + TP not available with PREPU

Premier™ Series

Thermoplastic combination unit



Features

The **Premier™ Series** of combination units (emergency light battery unit with an exit sign) are designed with aesthetics, ease of installation and performance in mind.

- One-pack combination of battery unit and exit sign, a compact and contemporary design
- Durable injection-molded thermoplastic housing with push-to-snap design
- Available in single or double face configurations both with means for ceiling mounting
- Comes with the **Emergi-Lite® Premier™ EZ2** canopy and field-selectable snap chevrons for quick and easy installation
- Exit sign module illuminated by long-life **ALINGAP** red LEDs
- Two LED lamps, shielded by a clear polycarbonate cover
- LED lamps with life expectancy 50,000+ hours
- Sealed, maintenance-free, lead-calcium or nickel-metal-hydrate batteries
- Dual voltage input: 120/347VAC or 120/277VAC.
- Optional vandal-resistant shield with tamper-proof screws
- Certified CSA C22.2 No.141
- Optional advance diagnostics circuitry available
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Premier™ family



Premier™ Exit Series

Power consumption

Model	AC specs	Wattage capacity					
		30 min	1H00	1H30	2H00	4H00	
Exit sign module	120/347VAC	Less than 2W	-	-	-	-	-
L2	120/347VAC	0.11/0.04 A	20	15	12	8	-
L5			50	30	24	16	8
L5A			50	30	24	16	8
H5A	120/347VAC	0.22/0.08 A	50	36	24	18	9

Typical specifications

Supply and install the **Emergi-Lite® Premier™ Series** combination emergency light battery unit and exit sign. The standard equipment shall operate with a dual voltage input of 120/347VAC. The unit shall be suitable for wall or ceiling mount.

The unit frame and faceplates shall be made of injection-molded durable high-impact thermoplastic and come standard with snap in/out chevrons. No screws are necessary to hold the faceplate or backplate to the housing. The one-piece thermoplastic frame is molded in white (optional black). The faceplates shall feature a uniformly illuminated legend. The light source shall be light emitting diodes (LED) and shall provide illumination in normal and emergency operation and shall be mounted inside the combination housing. Red LED technology shall be **ALINGAP**. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination.

The unit shall be equipped with two emergency heads with tool-less adjustable swivels (lamps of 12W or less) and long-life LED type lamp _____ V and _____ W. Each lamp shall be protected by a snap-on, shock- absorbent, transparent polycarbonate cover.

The unit shall be equipped with a test switch and a green pilot light, located on the faceplate above the EXIT legend. The battery charger shall be driven by a micro-controller. All electronic circuitry (charger, LED driver, LED's) shall be installed on a single printed circuit board PCB.

The unit equipped with self-testing / self-diagnostic features shall automatically self test for one minute every 30 days, 10 minutes in the 6th month and 30 minutes annually. When a fault is detected, the bi-color pilot light shall turn from green to red and shall flash, identifying the source of the failure: battery, charger circuitry, lamp load, LED strip. The exit sign module shall be CSA-C860 approved.

The combo unit shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code

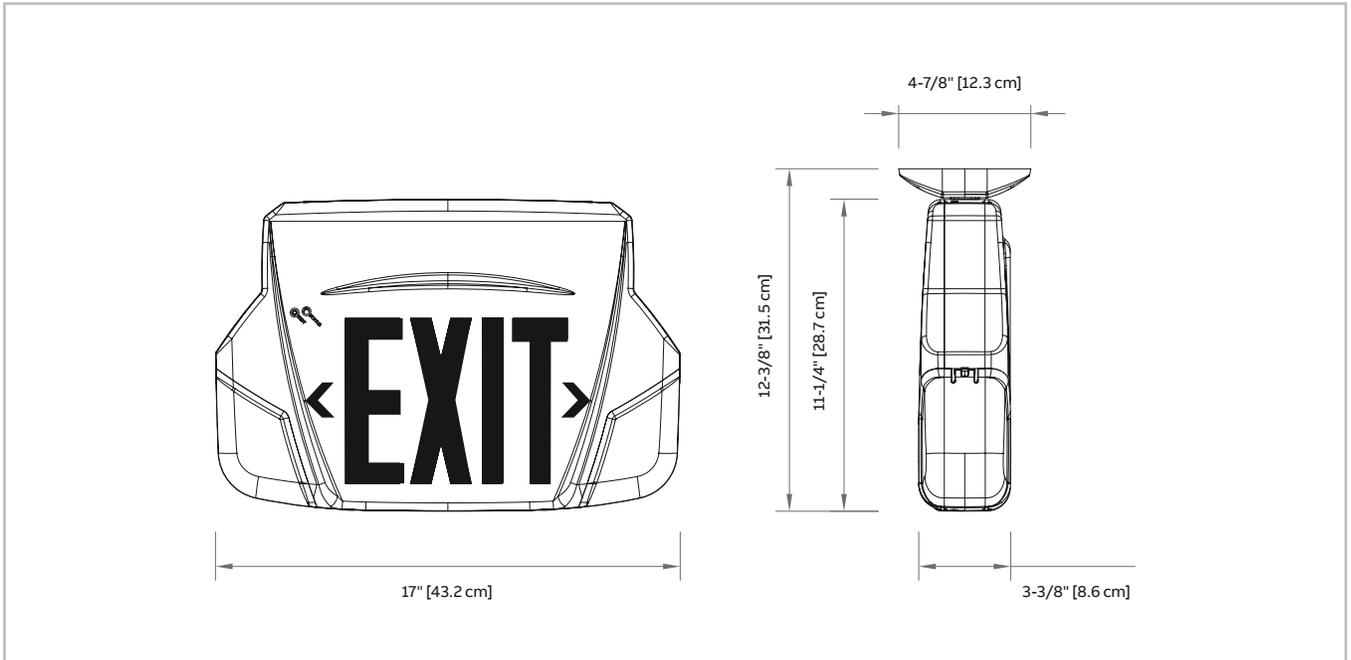
460.0078-E Wall mount

Premier™ Series

Thermoplastic combination unit

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Colour	Voltage	Powerpack	Legend
PRE1 = single face ceiling or wall mount	B = black W = factory white	2 = 120/277VAC 3 = 120/347VAC	-L2 = 6V-20W Lead cal -L5 = 6V-50W Lead cal -L5A = 12V-50W Lead cal -H5A = 12V-50W NiMH	Blank = red legend G = green legend
PRE1N = single face wall mount (less canopy)				
PRE2 = double face ceiling mount				
PREU = universal, 2 faces backplate and canopy				

Options	# of heads	Head style/wattage
BA = brushed aluminum exit stencil	/0 = no heads	LA = MR16 LED, 6V-4W
Blank = no options	/2 = two heads	LB = MR16 LED, 6V-5W
D3 = time delay (15 minutes)		LG = MR16 LED, 12V-4W
NEX = NEXUS® system interface ¹		LI = MR16 LED, 12V-5W
NEXRF = wireless NEXUS® system interface ¹		LJ = MR16 LED, 12V-6W
-TP = tamper-proof screws ²		
U = auto-diagnostics		
UD = auto-diagnostics, non-audible		
-VR = polycarbonate shield with tamper-proof screws ²		

¹Not all options available with NEXUS® system.

Please consult your sales representative

²**091957-E**= tamper-proof bit (sold separately)

Example: **PRE1W3-L2/2LB**

VR is not available with PREU

CMPS-E Series

Thermoplastic pictogram sign



Features

- Energy efficient, long-life white LEDs consuming 1.5W at normal operation
- 120/277/347VAC Input
- Universal single and double face
- Automatic, temperature compensated, pulse type charger
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection
- Battery lock-out prevents discharge during installation
- Comes standard with three pictogram legends for direction selection
- Red LED charger monitor
- Injection-molded off-white thermoplastic ABS housing
- Fast and easy installation with snap-together design
- Ceiling, wall or end mount installation
- CSA C22.2 no.141-10 listed
- Selection of self-powered using a 3.6V Ni-Cd battery and AC model
- **Warranty details at: www.emergi-lite.ca/**

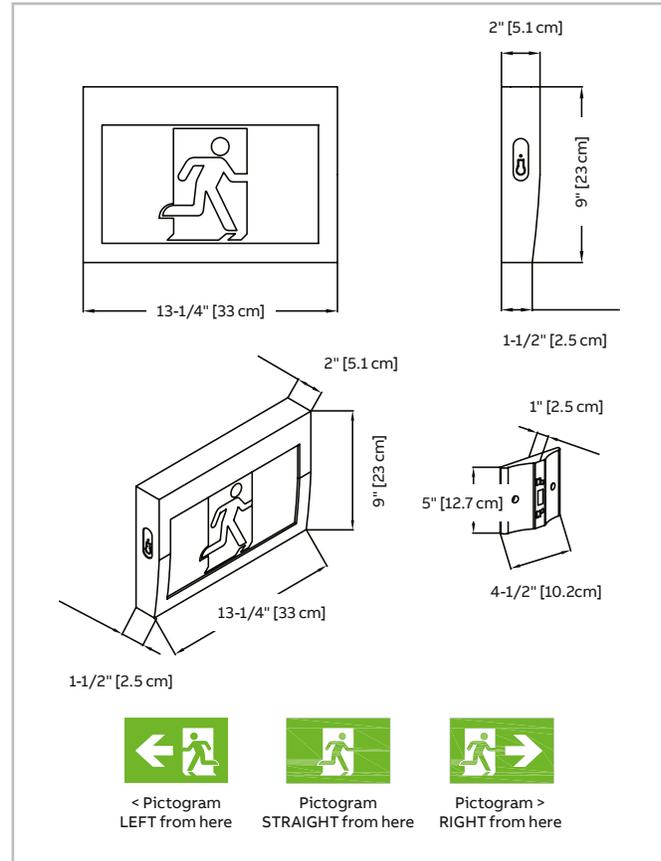


Power consumption and unit rating

Series	Model	AC specs			
		Wattage	Current	Efficiency	
CM-PS	AC-remote	120V, 50/60 Hz	1.5W	0.01A	0.96PF
		277V, 50/60 Hz	2W	0.01A	0.92PF
		347V, 50/60 Hz	2.4W	0.01A	0.91PF
	Self-powered	120V, 50/60 Hz	2.5W	0.24A	0.98PF
		277V, 50/60 Hz	3W	0.014A	0.93PF
		347V, 50/60 Hz	3.5W	0.017A	0.92PF

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Voltage	Brand
CM-PS	-AC= 120/277/347VAC -SP= 120/277/347VAC, self-powered (120 mins.)	-E= Emergi-Lite®

Example: CM-PS-AC-E

CMPC-E Series

Thermoplastic pictogram combo unit



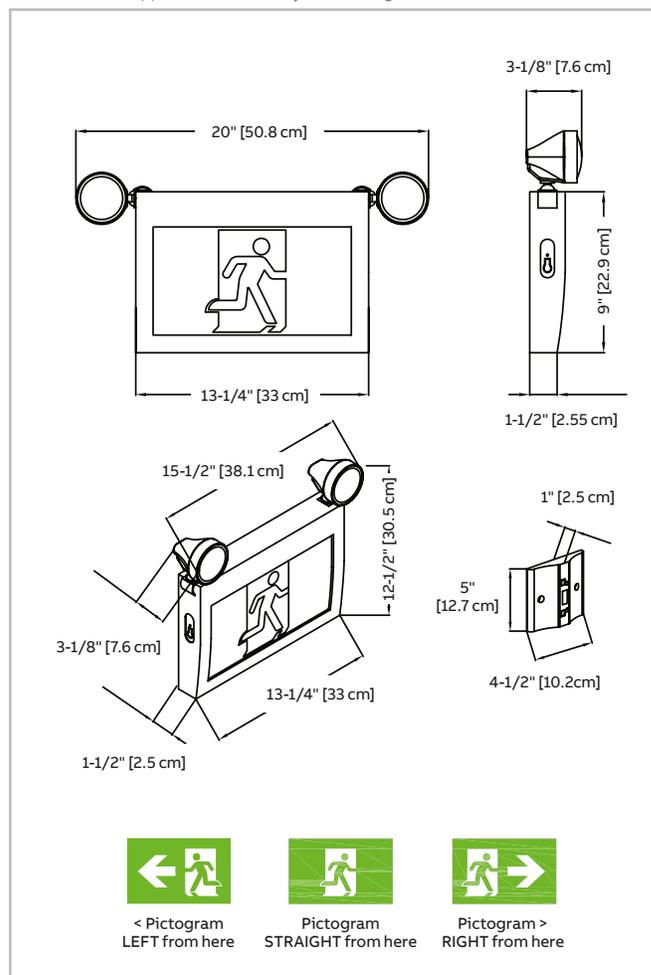
Features

- Energy efficient, long-life white LEDs consuming 2.5W at normal operation
- 120/277/347VAC Input
- Universal single and double face
- Automatic, temperature compensated, pulse type charger
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection
- Battery lock-out prevents discharge during installation
- Comes standard with three pictogram legends for direction selection
- Red LED charger monitor
- Injection-molded off-white thermoplastic ABS housing
- Fast and easy installation with snap-together design
- Ceiling, wall or end mount installation
- CSA C22.2 no.141-10 listed
- 3.6V nickel-cadmium battery provides minimum 120 minutes of emergency lighting
- Fully adjustable LED glare-free lens
- 3.6V-2W long life LED light source
- Adjustable light heads for forward or backward lighting
- **Warranty details at: www.emergi-lite.ca/**



Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Series	AC specs			
	Wattage	Current	Efficiency	
CM-PC	120V, 50/60 Hz	2.5W	0.24A	0.98PF
	277V, 50/60 Hz	3W	0.014A	0.93PF
	347V, 50/60 Hz	3.5W	0.017A	0.92PF

Ordering information

Series	Voltage
CM-PC-E	Blank= 120/277/347VAC

Example: CM-PC-E

EN10 Series

NEMA-3R rated pictogram sign – 10" legend



Features

- NEMA-3R rated
- Gasketed fiberglass housing designed specifically for industrial applications
- Sealed, vandal-resistant polycarbonate faceplate
- Suitable for cold-weather: -20°C (-4°F) for AC/DC
- Wall or ceiling mounting; wall or ceiling brackets available for easy installation
- Normal AC and emergency DC operation 120 to 347VAC input; 6 to 24 DC input
- Certified for 160' viewing distance. Ideal for large facilities with high ceilings
- Supplied standard with two pictogram films for direction selection
- Meets or exceeds CSA C22.2 No.141-15
- **Warranty details at: www.emergi-lite.ca**

Typical specifications

Supply and install **Emergi-Lite® EN10 Series** LED pictogram sign. The equipment shall be NEMA-3R rated and operate with universal two-wire AC input voltage from 120VAC to 347VAC at less than 3W per face and universal two-wire DC input voltage from 6VDC to 24VDC at less than 3W per face. The housing shall be of grey fiberglass, gasketed, specially designed for industrial environment. The sealed front cover shall be constructed of heavy duty vandal-resistant transparent polycarbonate of 4mm thickness and shall be bent around the back box for increased rigidity. The front cover will feature an illuminated legend with a running man pictogram.

The equipment shall be suitable for wall or ceiling mount and be designed specifically for high abuse areas, wet locations, and dust and oil-tight applications.

The equipment shall be NEMA-3R and CSA 22.2 No.141-15 standard.

The equipment shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0103-E	Wall mount
460.0104-E	Ceiling mount

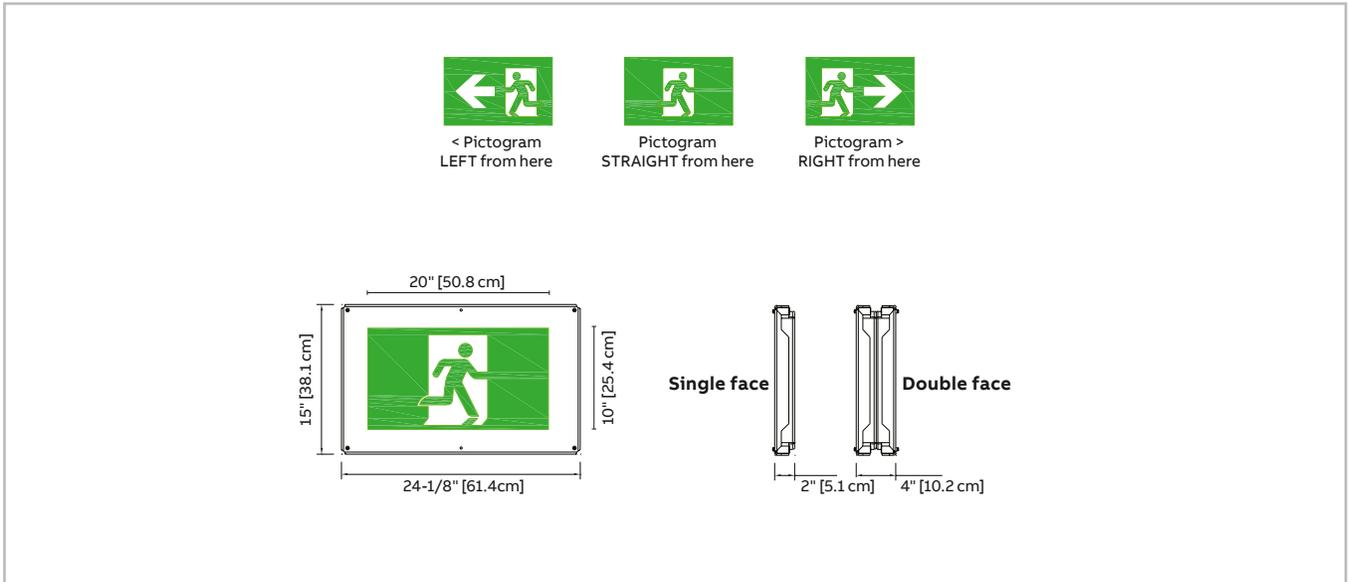


EN10 Series

NEMA-3R rated pictogram sign – 10" legend

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	Ambient temperature	AC specs (single face) ¹			DC specs	
AC-only	-40°C ... +40°C	120 to 347VAC	0.06 to 0.18 A	Less than 3W	–	–
AC/DC	-40°C ... +40°C	120 to 347VAC	0.06 to 0.18 A	Less than 3 W	6 to 24VDC	Less than 3 W
Self-powered	25°C ± 5°C	120 to 347VAC	0.13 to 0.38 A	Less than 7 W	Ni-Cd battery	120 minutes

¹X2 for double face

Ordering information

Series	Faces	Voltage	Options
EN10= 10" pictogram NEMA-3R sign	1= Single face 2= Double face	I= self-powered 120 to 347VAC (25°C ± 5°C), 120 minutes U= 120 to 347VAC, 6 to 24 VDC (-40 to +40°C) U00= AC only 120 to 347VAC (-40 to +40°C)	U4= arrow up 45° U9= arrow up D4= arrow down 45° D9= arrow down
Example: EN102U00			

Survive-All™ EN Series

NEMA-4X & NSF certified pictogram sign



Features

- NEMA-4X certified
- NSF compliant for food processing
- Polymeric enclosure is fully gasketed around lens and canopy to secure against water leaks
- Sealed, heavy-duty, vandal-resistant polycarbonate faceplate
- Universal mounting: wall-, end-, or ceiling-mount
- Suitable for cold weather: -40°C for AC/DC and -20°C for self-powered models (option: -CW)
- Tamper-resistant, concealed test switch with magnetic action
- Long-life white LED light source is warrantied for 10 years
- Supplied standard with two pictogram films per face, for direction selection
- Universal AC input: two-wire 120 to 347VAC; standard DC input: two-wire 6 to 24VDC
- Energy efficient – consumes less than 2.5W in AC or DC-remote mode
- Self-powered models deliver two hours of back-up lighting
- Meets or exceeds CSA 22.2 No.141-15
- Special wording available (CSA C22.2 No. 250.0)
- **Warranty details at: www.emergi-lite.ca**

nexus® Nexus®Pro



NEMA-4X



Typical specifications

Supply and install the **Emergi-Lite® Survive-All™ EN Series** pictogram signs. The equipment shall be certified for NEMA- 4X and designed specifically for high abuse areas, wet locations, and cold weather applications. The equipment frame shall be of industrial grade polyvinyl chloride with a gasket around lenses and canopy.

The faceplate(s) shall be constructed of heavy-duty vandal-resistant polycarbonate and feature an even illuminated legend. Each faceplate shall come standard with two legend films for pictogram and direction selection. The light source shall be white light-emitting diodes (LED). The pictogram sign shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 2.5W and universal 2-wire DC input voltage from 6 to 24VDC at less than 1W for single and double face signs.

The self-powered model shall include a concealed green pilot light and magnet-sensitive test switch, shall use a sealed nickel-cadmium battery of 2.4V nominal voltage and shall stay illuminated during emergency operation for at least two hours upon AC failure. When specified, the self-powered model shall include auto-test functions: it shall execute automatic tests for 5 minutes every 30 days, 30 minutes every 60 days and two hours annually. When a fault is detected, the bi-colour pilot light shall turn from green to red and flash following a particular code.

The code description shall be visible on a label next to the pilot light to identify the failure type: battery, charger circuitry, or LED lamps.

The pictogram sign shall be listed CSA 22.2 No.141-15 standard. The equipment shall be **Emergi-Lite®** model: _____

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

Survive-All™ NEMA 4X & NSF certified family



ENC Series



NXM Series



EF39 & EF39P Series

Housing colour



Black



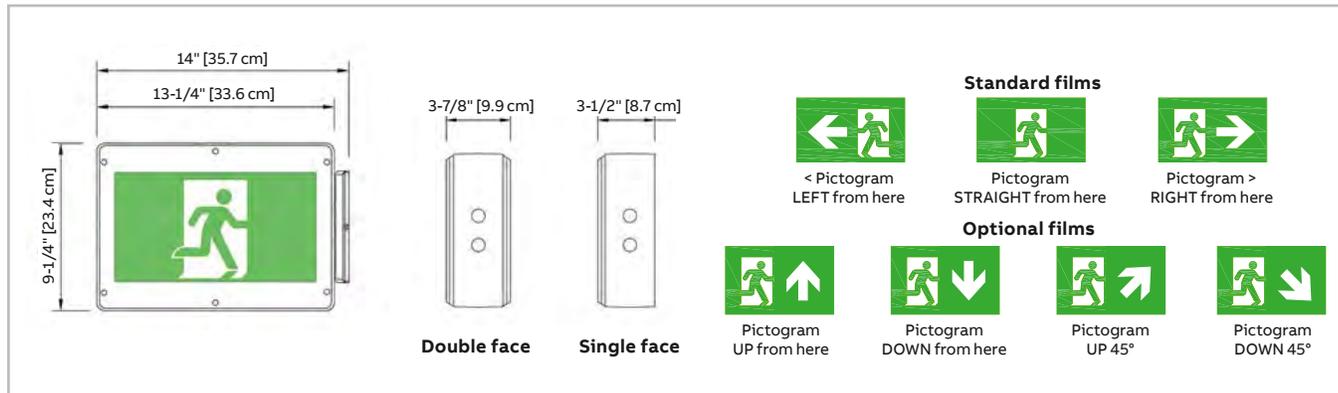
Factory white

Survive-All™ EN Series

NEMA-4X & NSF certified pictogram sign

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model		AC specs		DC specs
AC-only	120 to 347VAC	Less than 2.5W	-	-
AC/DC standard	120 to 347VAC	Less than 2.5W	6 to 24VDC	Less than 1W
AC/special DC	120 to 347VAC	Less than 2.5W	36, 48, 120VDC	Less than 2.5W
Two-wire 120V AC/DC	120VAC	Less than 2.5W	120VDC	Less than 2.5W
Self-powered	120 to 347VAC	Less than 3W	Nickel-cadmium battery	Min. 2 hours
Auto diagnostics	120 to 347VAC	Less than 3.5W	Nickel-cadmium battery	Min. 2 hours

Ordering information

Series	Faces/ mounting	Arrow configuration	Colour	Voltage	Options
EN= NEMA-4X & NSF pictogram exit sign ¹	1= single face 2= double face	Blank= standard film ¹ D4= arrow down 45° D9= arrow down U4= arrow up 45° U9= arrow up	B= black W= factory white	EM120-2W= 2-wires 120VAC/VDC I= self-powered, 120 to 347VAC ¹ ID= self-powered diagnostic, non-audible, Ni-Cd, 120/347VAC ID2= self-powered diagnostic, non-audible, Ni-Cd, 120/277VAC NEX= NEXUS® system interface, 120/347VAC NEXP= NEXUS®Pro IoT NEXRF= wireless NEXUS® system interface, 120/347VAC U= universal, 120 to 347VAC; 6 to 24VDC U00= 120 to 347VAC only U36= 120 to 347VAC; 36VDC U48= 120 to 347VAC; 48VDC U120= 120 to 347VAC; 120VDC	CL= special wording CW= cold-weather ¹

¹NEMA 4X certified for wall and ceiling only

¹-20°C for self-powered with diagnostics & Nexus®, -40°C for Universal 120-347VAC 6-48VDC

Example: EN1WSIDCW

¹See features for standard film details

¹Not available with CW

Survive-All™ LPEX600 Series

Polyvinyl chloride exit sign



Features

- NEMA-4X certified
- NSF certified for food processing
- Polyvinyl chloride enclosure is fully gasketed around lens and canopy to prevent water infiltration
- Sealed faceplate of heavy-duty, vandal-resistant polycarbonate with evenly illuminated legend
- Universal mounting: wall-, end-, or ceiling-mount
- Suitable for cold weather: -40°C on non self-powered sign and -20°C on self-powered ("CW" option)
- Tamper-resistant magnetic test switch
- Self-diagnostic circuitry standard on all self-powered models
- Energy efficient – consumes less than 3W in AC or DC mode
- Normal AC and emergency DC operation – 120 to 347V universal AC dual tap; 6 to 48V universal DC
- NEXUS® compatible
- Meets or exceeds CSA 22.2 No. 141.
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-Lite® Survive-All™ LPEX600 Series** LED exit signs. The equipment shall operate with universal two-wire AC input voltage from 120VAC to 347VAC at less than 3W and universal two-wire DC input voltage from 6VDC to 48VDC at less than 2W for single and double face signs. The equipment frame shall be of industrial grade polyvinyl chloride with a gasket around lenses and canopy designed specifically for hostile environments. The faceplate(s) shall be constructed of heavy-duty vandal-resistant polycarbonate and feature an even illuminated legend. The light source shall be light emitting diodes (LED). Red LED technology shall be **ALINGAP**. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The exit shall be certified for NEMA- 4X and designed specifically for high abuse areas, wet locations, and cold weather -20°C (-4°F) applications.

The self-powered model shall stay illuminated during emergency operation for at least 90 minutes upon AC failure and shall include a magnetic test switch and self-testing and self-diagnostic functions. The equipment shall automatically self test for 5 minutes every 30 days, 30 minutes every 60 days and 90 minutes annually. A "Service Required" lamp shall be located near the test switch and flash when a fault is detected. A two-LED diagnostic display shall be located inside the equipment and shall identify the eventual source of failure (battery, charger circuitry, or LED lamps).

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No. 141.

The equipment shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

Survive-All™ NEMA 4X & NSF certified family



Housing colour



Black



Grey



Textured aluminum



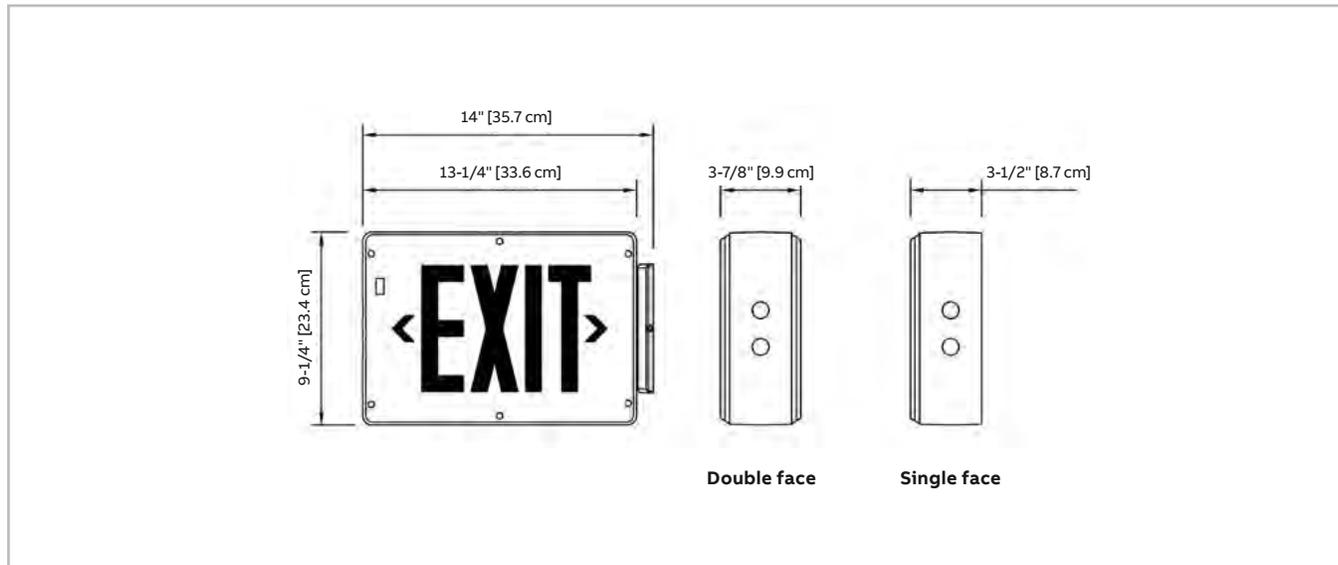
Factory white

Survive-All™ LPEX600 Series

Polyvinyl chloride exit sign

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model		AC specs		DC specs
AC/DC red	120 to 347VAC	Less than 3W	6 to 48VDC	Less than 2W
AC/DC green	120 to 347VAC	Less than 3W	6 to 48VDC	Less than 2W
Self-powered red	120 to 347VAC	Less than 3W	Nickel-cadmium battery	Min. 90 minutes
Self-powered green	120 to 347VAC	Less than 3W	Nickel-cadmium battery	Min. 90 minutes

Ordering information

Series	Faces/ mounting	Housing faceplates/colours	Voltage	Options	4X
LPEX60= NEMA-4X & NSF exit sign ¹	2= single face 3= double face	BA= black/aluminum BB= black/black BW= black/ white GA= grey/aluminum GB= grey/black GW= grey/ white WA= white/aluminum WB= white/black WW= white/white	U= universal, 120-347VAC, 6-48VDC EM120-2W= 120VAC, 120VDC, 2 wires ID= 120-347VAC, self-powered c/w diagnostics (non-audible) NEX= NEXUS® system interface NEXRF2= wireless NEXUS® system interface (120/277VAC) NEXRF3= wireless NEXUS® system interface (120/347VAC)	Blank= no options -CW= cold weather ¹ -G= green legend	4X= approved NEMA-4X and NSF

¹NEMA 4X certified for wall and ceiling only

¹-20°C for self-powered with diagnostics & Nexus®, -40°C for universal 120-347VAC 6-48VDC

Example: LPEX602WWU4X

Survive-All™ ENC Series

NEMA-4X & NSF certified pictogram combination unit



Features

- Certified NEMA-4X for wall or ceiling mount
- NSF certified certified for use in food processing areas
- Polyvinyl chloride frame, with built-in gasket to prevent water infiltration
- Sealed, vandal-resistant faceplate of polycarbonate
- Long-life white LED light sources is warranted for 10 years
- Comes standard with two pictogram films per face, for direction selection
- Two high-performance LED lamps shielded by a clear polycarbonate cover
- Sealed, maintenance-free lead-calcium or nickel-cadmium batteries
- Remote load capacity: covers with 4W LED lights 100' up to 230' of egress illumination
- Comes standard with auto-diagnostic
- Cold-weather option: -40°C (-40°F) with only 14W extra power consumption
- Meets or exceeds CSA 22.2 No.141-15
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus® Nexus®Pro   NEMA-4X   Made in Canada

Typical specifications

Supply and install **Emergi-Lite® Survive-All™ ENC Series** combination emergency light battery unit and pictogram sign. Designed specifically for industrial environments, the equipment frame shall be of industrial grade polyvinyl chloride with gaskets around both sides of frame contour.

The back plate shall be made of 1/8" thick aluminum sheet and shall include knock-outs for installation on an electrical box. The faceplate(s) shall be constructed of heavy-duty vandal-resistant clear polycarbonate and feature a uniformly illuminated pictogram legend. Each face plate shall come standard with two legend films for pictogram and direction selection.

The light source shall be long-life white light-emitting diodes (LED). The unit shall have attached a lower compartment containing two emergency heads with adjustable swivels and long-life LED lamps of _____ V and _____ W. The heads shall be installed on a shield housing made of rigid thermoplastic and shall be protected by a shock-absorbent, clear polycarbonate cover. The standard AC input voltage shall be 120/347VAC.

The unit shall be equipped with a magnetic test switch and an LED pilot light protected by the clear face plate. The unit shall perform auto-test functions managed by a microcontroller and shall automatically self-test for one minute every 30 days, 10 minutes in the 6th month and 30 minutes annually. When a fault is detected, the bi-colour pilot light shall turn from green to red and flash following a particular code. The code description shall be displayed on a label next to the pilot light to identify the failure type: battery, charger circuitry, LED lights for the signage, or emergency lights.

The combination unit shall meet or exceed the standard CSA C22.2 No.141-15.

The equipment shall be **Emergi-Lite®** model: _____

Wire guards

Ordering code	Description
460.0078-E	Wall mount
460.0060-E	End or ceiling mount

Survive-All™ NEMA 4X & NSF certified family



EN Series



NXM Series



EF39 & EF39P Series

Housing colour



Black



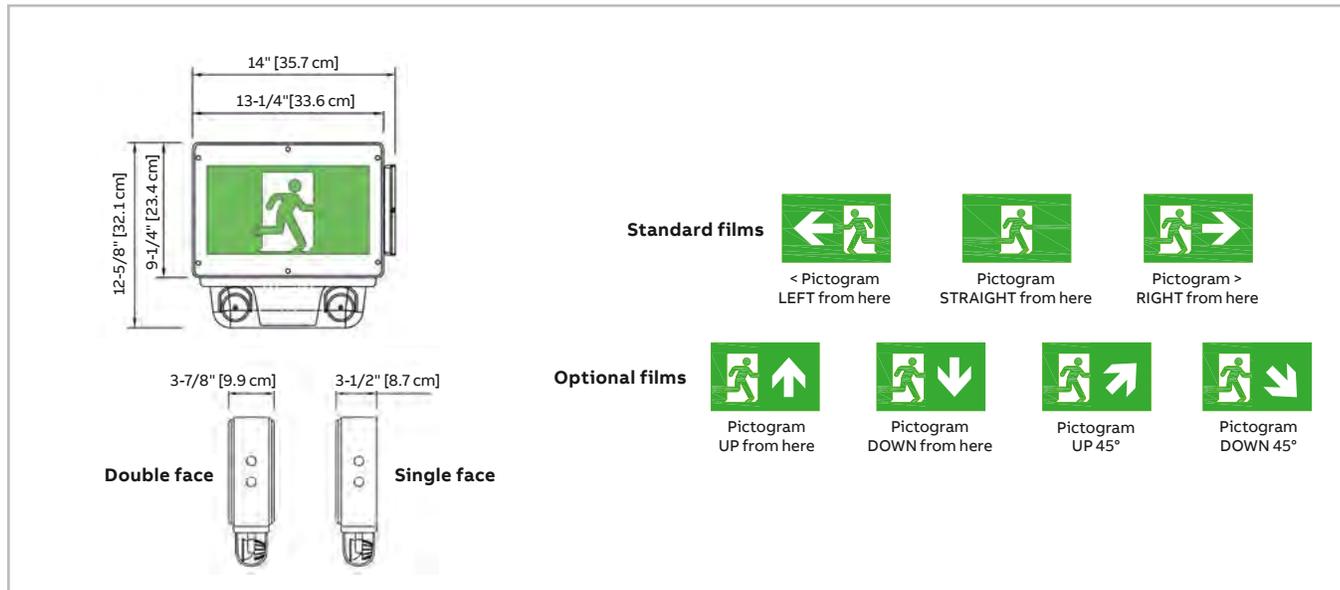
Factory white

Survive-All™ ENC Series

NEMA-4X & NSF certified pictogram combination unit

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Model	AC specs	Emergency power for lamps				
		30 min	1H00	1H30	2H00	4H00
Pictogram sign module	Less than 2.5W	-	-	-	-	-
ENC-6L36	0.10/0.03 A	36	21	15	12	-
ENC-6L36-CW	120/347VAC 0.25/0.08 A	36	21	15	12	-
ENC-6N36	0.10/0.03 A	36	30	20	16	8
ENC-6N36-CW	0.25/0.08 A	36	30	20	16	8
ENC-12N60	0.18/ 0.06 A	60	40	30	20	10

Ordering information

Series	Faces / mounting ¹	Arrow configuration	Housing colour	Battery type and power
ENC= NEMA-4X & NSF pictogram exit combo unit ¹	1= single face 2= double face	Blank= standard film ¹ U4= arrow up 45° U9= arrow up D9= arrow down D4= arrow down 45°	B= black W= factory white	6L36= 6V-36W lead-calcium 6N36= 6V-36W nickel-cadmium 12N60= 12V-60W nickel-cadmium

¹NEMA 4X certified for wall and ceiling only

¹Universal mounting

¹See features for standard film details

Head style and wattage	Voltage	Options
Blank= no heads LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W	Blank= 120/347VAC -2= 120/277VAC input	Blank= advanced diagnostic, non-audible (standard) CW= cold-weather -40°C (-40°F) to + 25°C (77°F) only with 6V single-face units D3= time delay (15 minutes) NEX= NEXUS® system interface ¹ NEXP= NEXUS® Pro IoT ¹ NEXRF = wireless NEXUS® system interface ¹ U= advanced diagnostic

Example: ENC2W12N60LG

¹Minimum lamp load required: 20% of unit capacity

Survive-All™ LPEX600-N Series

NEMA-4X & NSF certified combination unit



Features

- NEMA-4X certified for wall or ceiling mount
- NSF certified for food processing
- High efficiency LED lamps up to 12V, 12W or white LED emergency lights
- Continuous self-diagnostic monitoring and monthly self-testing
- Fully automatic charger is solid state
- Non-intrusive magnetic test switch
- Cold weather (-40°C) option
- Comes standard with tamper-proof screws
- NEXUS® compatible
- Sealed maintenance-free nickel cadmium battery
- Meets or exceeds CSA 22.2 No. 141
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-Lite® Survive-All™ LPEX600-N** combination of unit equipment and exit sign series. The equipment shall operate under two input voltage, 120VAC or 347VAC. The equipment frame shall be of industrial grade polyvinyl chloride with a gasket around lenses and canopy designed specifically for hostile environments. The unit shall be certified for NEMA-4X for wall and ceiling mount designed specially for high abuse areas, wet locations, and cold weather (CW option). The faceplate(s) shall be constructed of heavy-duty vandal-resistant polycarbonate and feature an even illuminated legend. The legend light source shall be light emitting diodes (LED). Red LED technology shall be **ALINGAP**. Emergency lights shall be fully adjustable and high efficiency LED lamps. The **Emergi-Lite®** Advanced Diagnostic Microcontroller board shall supply the rated load for minimum of 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120/347 V, 60 Hz and be CSA listed. The unit shall have an output of _____ V and _____ W. The battery charger shall be driven by a micro-controller and shall include functions of Lockout, Brownout Circuits, and Low Voltage Disconnection. It protects the unit from over-current, short-circuit, and reverse polarity. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with a magnetic test switch. A "Service Required" lamp shall be located near the test switch and flash when a fault is detected. A four-LED diagnostic display shall be located inside the equipment and shall identify the source of failure: battery, charger circuitry, LED lamps or emergency lights. The exit sign shall be listed CSA-C22.2 No. 141 and CSA-C860 approved.

The equipment shall be **Emergi-Lite®** model: _____ .

Wire guards with heads

Ordering code	Description
460.0078-E	Wall mount
460.0060-E	End or ceiling mount

Wire guards without heads

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

Survive-All™ NEMA 4X & NSF certified family



Housing colour

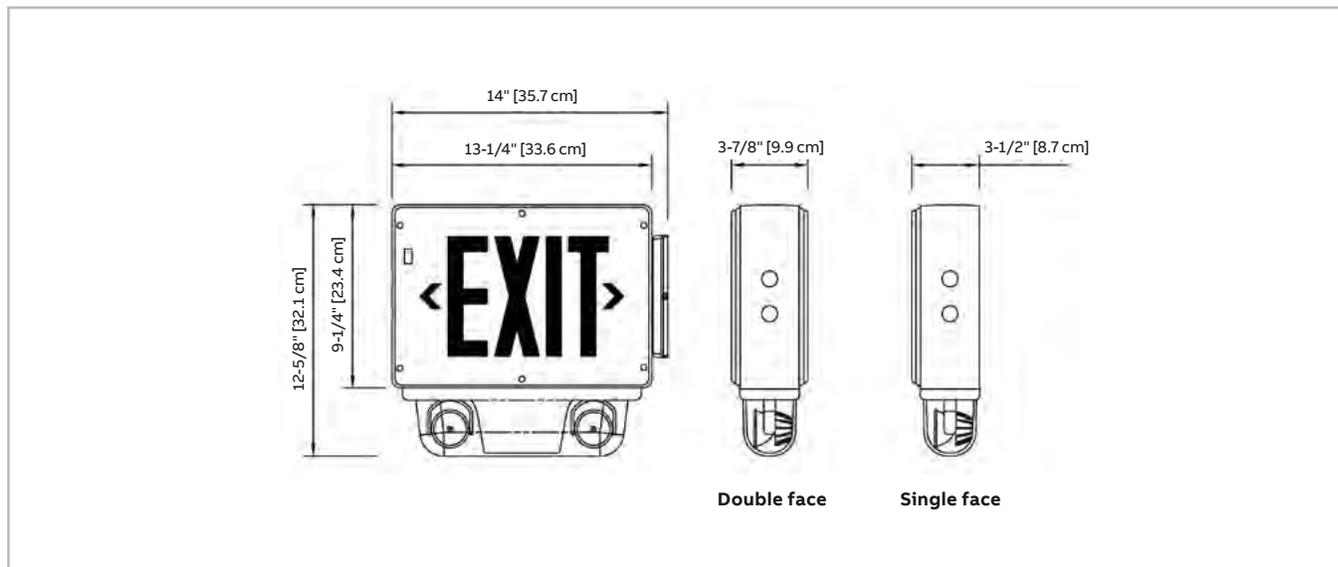


Survive-All™ LPEX600-N Series

NEMA-4X & NSF certified combination unit

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Model	AC specs	Wattage capacity					
		30 min	1H00	1H30	2H00	4H00	
Exit sign model	Less than 2W	-	-	-	-	-	
LPEX60-N3	120/347VAC	0.15/0.05 A	36	30	20	15	8
LPEX60-N3CW		0.41/0.15 A	36	30	20	15	8
LPEX60-N6A		0.27/0.09 A	60	40	30	24	12

Note: double face models have double the power consumption above.

Ordering information

Series	Faces	Housing/ face colour	Voltage	Powerpack
LPEX60= NEMA 4X & NSF certified ¹	2= single face	BA= black/aluminum	-2= 120/277VAC	-N3= 6V-36W
	3= double face	BB= black/black GA= grey/aluminum GB= grey/black GW= grey/white WA= white/aluminum WB= white/black WW= white/white	Blank= 120 to 347VAC	-N6A= 12V-60W

¹NEMA 4X certified for wall and ceiling only

Options	Number of heads	Head style and wattage
Blank= auto-diagnostics non-audible (standard)	/2= two heads	Blank= no heads
CW= cold weather (-40°C)1	Blank= no heads ²	LA= MR16 LED, 6V-4W
-G= green legend		LB= MR16 LED, 6V-5W
NEX= NEXUS® system interface2		LG= MR16 LED, 12V-4W
NEXRF= wireless NEXUS® system interface2		LI= MR16 LED, 12V-5W
U= auto-diagnostics audible		LJ= MR16 LED, 12V-6W

¹Available with single face only.

²Not all options available with NEXUS® system. Please consult your sales representative.

Example: LPEX602WW-N3CW/2LB

¹Remote load must be connected.

EH Series

Pictogram sign – hazardous locations
Class I Division 2- compliant



Features

- Compliant Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M1981
- Includes the addition of Class II Div. 1&2 Groups E, F and G as well as Class III ratings
- Temperature code T6 (maximum + 85°C (185°F)) as per Canadian Electrical Code, Part I and CSA C22.2 No.137-M1981
- High-impact thermoplastic frame with built-in gasket to secure against liquid leaks
- Sealed, heavy-duty, vandal-resistant polycarbonate faceplate(s)
- Concealed pilot light and test switch with magnetic action
- Long-life white LED light source
- Supplied standard with two pictogram films per face, for direction selection
- Meets or exceeds CSA 22.2 No.141-10 standard for pictogram signs
- Universal AC input: two-wire 120 to 347VAC; standard DC input: two-wire 6 to 24VDC
- Energy efficient – consumes less than 2.5W in AC or DC-remote mode
- Self-powered models come standard with auto-diagnostic functions and deliver two hours of back-up legend illumination
- Suitable for cold-weather: -40°C (-40°F) for AC/DC and -20°C (-4°F) for self-powered models (option: -CW)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Typical specifications

Supply and install the **Emergi-Lite® EH Series** of pictogram signs. The equipment shall be certified for Hazardous Locations: Class I Division 2 Groups A, B, C and D with a temperature code T6 (maximum 85°C (185°F)). The equipment frame shall be of industrial grade polyvinyl chloride with a gasket around lenses and canopy. The faceplate(s) shall be constructed of heavy-duty vandal-resistant polycarbonate and feature an even illuminated pictogram legend. Each faceplate shall come standard with two legend films for pictogram and direction selection. The light source shall be long-life white light-emitting diodes (LED). The pictogram sign shall operate with universal 2-wire AC input voltage of 120 to 347VAC at less than 2.5W and universal 2-wire DC input voltage from 6 to 24VDC at less than 1W for single and double face signs. The self-powered model shall include a concealed pilot light and magnet-sensitive test switch, shall use a sealed nickel-cadmium battery of 2.4V nominal voltage and shall stay illuminated during emergency operation for at least two hours upon AC failure. The self-powered model shall include auto-test functions: it shall execute automatic tests for 5 minutes every 30 days, 30 minutes every 60 days and two hours annually. When a fault is detected, the bi-colour pilot light shall turn from green to red and flash following a particular code. The code description shall be visible on a label next to the pilot light to identify the failure type: battery, charger circuitry, or LED lamps.

The pictogram sign shall meet or exceed the CSA 22.2 No. 141-10 standard.

The equipment shall be **Emergi-Lite®** model: _____.

Class I Division 2 family



LPEXHZ Series

LPEX600 Series

EXHZ Series

HZM Series

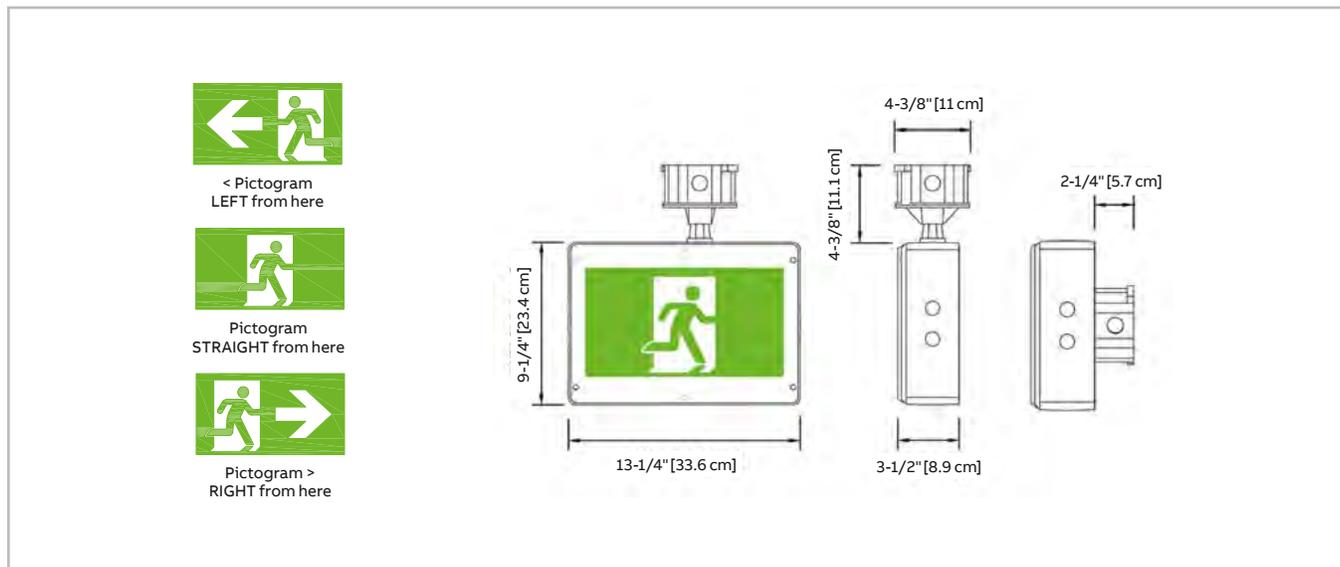
EF41 Series

EH Series

Pictogram sign – hazardous locations
Class I Division 2- compliant

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Model		AC specs		DC specs
AC-only	120 to 347VAC	Less than 2.5W	-	-
AC/DC standard	120 to 347VAC	Less than 2.5W	6 to 24VDC	Less than 1 W
AC/special DC	120 to 347VAC	Less than 2.5W	36, 48, 120VDC	Less than 2.5 W
Two-wire 120V AC/DC	120VAC	Less than 2.5W	120VDC	Less than 2.5 W
Auto- diagnostic	120 / 347VAC	Less than 3.5W	Nickel- cadmium battery	Minimum two hours

Ordering information

Series	Faces ¹	Housing colour	Voltage	Options
EH= pictogram sign	1= single face 2= double face	G= grey	EM120-2W = 2-wires 120VAC/VDC ID = self-powered, auto-diagnostic, non-audible, Ni-Cd, 120/347VAC ID2 = self-powered, auto-diagnostic, non-audible, Ni-Cd, 120/277VAC NEX = NEXUS® system interface, 120/347VAC ¹ NEXRF = wireless NEXUS® system interface, 120/347VAC ¹ U = universal, 120 to 347VAC; 6 to 24VDC U00 = 120 to 347VAC only U36= 120 to 347VAC; 36VDC U48 = 120 to 347VAC; 48VDC U120 = 120 to 347VAC; 120VDC	CW = cold-weather (-20°C for SPD, SPD2 and NEXUS®, -40°C for universal model) D4 = arrow down 45° D9 = arrow down U4 = arrow up 45° U9 = arrow up

¹Ceiling or wall mount only.

Example: EH1GU

¹Not all options available with NEXUS® system interface. Please consult your sales representative

LPEXHZ Series

Hazardous location LED exit sign
Class I Division 2- compliant



Features

- Certified Class I Zone 2, Groups IIA, IIB and IIC
- Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M1981
- Temperature code: T6 (maximum 85°C as per Canadian Electrical Code, Part I and CSA C22.2 No.137-M1981)
- CSA certified, meets or exceeds CSA 22.2 No. 141 requirements
- Input voltages: 120 to 347VAC universal AC input; 6 to 48VDC universal DC input
- High impact thermoplastic frame, with built-in gasket to prevent water infiltration
- Suited for areas with the risk of presence of flammable gases, vapors or liquids able to create an explosive atmosphere
- Sealed faceplate of heavy-duty, vandal-resistant polycarbonate
- Tamper-resistant, hermetically sealed magnetic test switch
- Auto-diagnostic circuitry is standard on self-powered models
- Sealed, maintenance-free, nickel-cadmium batteries
- Batteries recharge as per CSA requirements and provide 90 minutes of emergency operation
- Long-life, energy-efficient **ALINGAP** red LED light source
- Energy efficient – consumes less than 3W in AC or DC mode
- Comes standard with industrial-grade, die-cast aluminum electrical box
- Suitable for cold weather:
 - 20°C (-4°F) (self-powered model, “CW” option) and
 - 40°C (-40°F) (AC only and AC-DC models)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-Lite® LPEXHZ Series** LED exit signs. The equipment shall operate with universal two-wire AC input voltage from 120VAC to 347VAC at less than 3W and universal two-wire DC input voltage from 6VDC to 48VDC at less than 2W for single and double face signs. Designed specifically for hostile environments, the equipment frame shall be of industrial grade high impact thermoplastic with a gasket around lenses and canopy. The faceplate(s) shall be constructed of heavy-duty vandal-resistant polycarbonate and feature an even illuminated legend. The light source shall be light emitting diodes (LED). Red LED technology shall be **ALINGAP**. An LED-sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. The equipment shall be certified for Hazardous Locations: Class I Division 2 Groups A, B, C and D with a temperature code T6 Maximum 85°C (185°F). The equipment shall be designed specifically for high abuse areas, wet location, and cold weather -20°C (-4°F) applications. The self-powered model shall stay illuminated during emergency operation for at least 90 minutes upon AC failure and shall include a magnetic test switch and self-testing/self-diagnostic functions. The equipment shall automatically self test for 5 minutes every 30 days, 30 minutes every 60 days and 90 minutes annually. A “Service required” lamp shall be located near the test switch and flash when a fault is detected. A two-LED diagnostic display shall be located inside the equipment and shall identify the eventual source of failure (battery, charger circuitry, or LED lamps).

The exit sign shall be CSA-C860 approved and meets CSA 22.2 No. 141.

The equipment shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0080-E	Wall mount

Class I Div 2 family



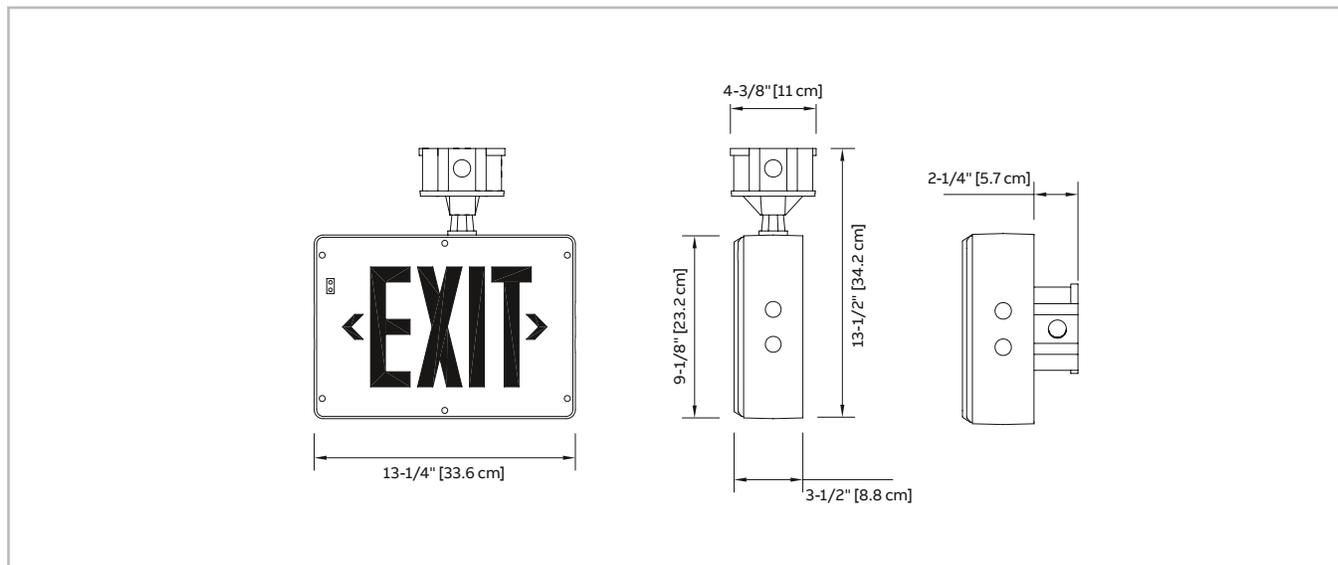
EH Series EHC Series EXHZ Series HZM Series EF41 Series

LPEXHZ Series

Hazardous location LED exit sign
Class I Division 2- compliant

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model		AC specs		DC specs
AC/DC red	120 to 347VAC	Less than 3W	6 to 48VDC	Less than 2W
AC/DC green	120 to 347VAC	Less than 3W	6 to 48VDC	Less than 2W
Self-powered red	120 to 347VAC	Less than 3W	Nickel-cadmium battery	Min. 90 minutes
Self-powered green	120 to 347VAC	Less than 3W	Nickel-cadmium battery	Min. 90 minutes
120VAC/VDC 2 wires, red	120VAC	Less than 3W	120VDC	Less than 3W

Note: double face models have double the power consumption above.

Ordering information

Series	Faces/mounting	Housing/faceplate colour	Voltage	Options
LPEXHZ	2= single face, ceiling or wall mount 3= double face, ceiling mount only	GG= grey/grey	EM120-2W= 120VAC, 120VDC, 2 wires (AC only) ID= 120-347VAC, self-powered c/w non-audible diagnostics U= universal 120-347VAC, 6-48VDC	Blank= red legend -CW= cold weather -20°C self-powered only -G= green legend NEX= NEXUS® system interface ¹ NEXRF= wireless NEXUS® system interface ¹

Example: LPEXHZ2GGU

¹NEXUS® option with self-powered models only

EHC Series

Pictogram exit combination unit – hazardous locations

Class I Division 2- compliant



Features

- Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M1981
- Certified CSA C22.2 No.141-10
- Polyvinyl chloride frame, with built-in gasket to prevent water infiltration
- Heavy-duty 1/8" thick aluminum back plate with keyholes for wall-mount installation
- Sealed, vandal-resistant faceplate of polycarbonate
- Legend illuminated by long-life white LEDs
- Comes standard with two pictogram films for direction selection
- Two high-performance LED lamps shielded by a clear polycarbonate cover
- 5W LED emergency lights provide 60' of egress illumination on a 6-foot wide path
- LED emergency lights provide 30-36' of egress illumination on a 6-foot wide path
- Sealed, maintenance-free lead-calcium or nickel-cadmium batteries
- Remote load capacity: covers with LED lights 100 ft up to 230 ft of egress illumination
- Comes standard with auto-diagnostic
- Cold-weather option: -40°C (-40°F) with only 14W extra power consumption
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Made in Canada

Typical specifications

Supply and install **Emergi-Lite® EHC Series** combination emergency light battery unit and pictogram sign. Designed specifically for hazardous locations, the equipment frame shall be of industrial grade polyvinyl chloride with gaskets around both sides of the frame contour. The back plate shall be made of 1/8" thick aluminum sheet and shall include knock-outs for installation on an electrical box and four keyholes for alternative installation on a wall surface. The faceplate shall be constructed of heavy-duty vandal-resistant clear polycarbonate and feature a uniformly illuminated pictogram legend.

The unit shall come standard with two legend films for pictogram and direction selection. The light source shall be long-life white light-emitting diodes (LED). The unit shall have attached a lower compartment containing two emergency heads with adjustable swivels and long-life LED lamps of _____ V and _____ W. The heads shall be installed on a shield housing made of cast aluminum and protected by a shock-absorbent, clear polycarbonate cover. The standard AC input voltage shall be 120/347VAC. The equipment shall be equipped with a magnetic test switch and one LED pilot light protected by the faceplate.

The unit shall perform auto-test functions managed by a micro- controller and shall automatically self-test for one minute every 30 days, 10 minutes in the 6th month and 30 minutes annually. When a fault is detected, the bi-color pilot light shall turn from green to red and flash following a particular code. The code description shall be displayed on a label next to the pilot light to identify the failure type: battery, charger circuitry, LED lights for the signage, or emergency lights. The combination unit shall be approved CSA C22.2 No. 141-10 and No.137-M1981 for Class I Division 2 Groups A, B, C and D.

The combination unit shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0078-E	Wall mount

Class I Div 2 family



LPEXHZ Series



EXHZ Series



EH Series



HZM Series



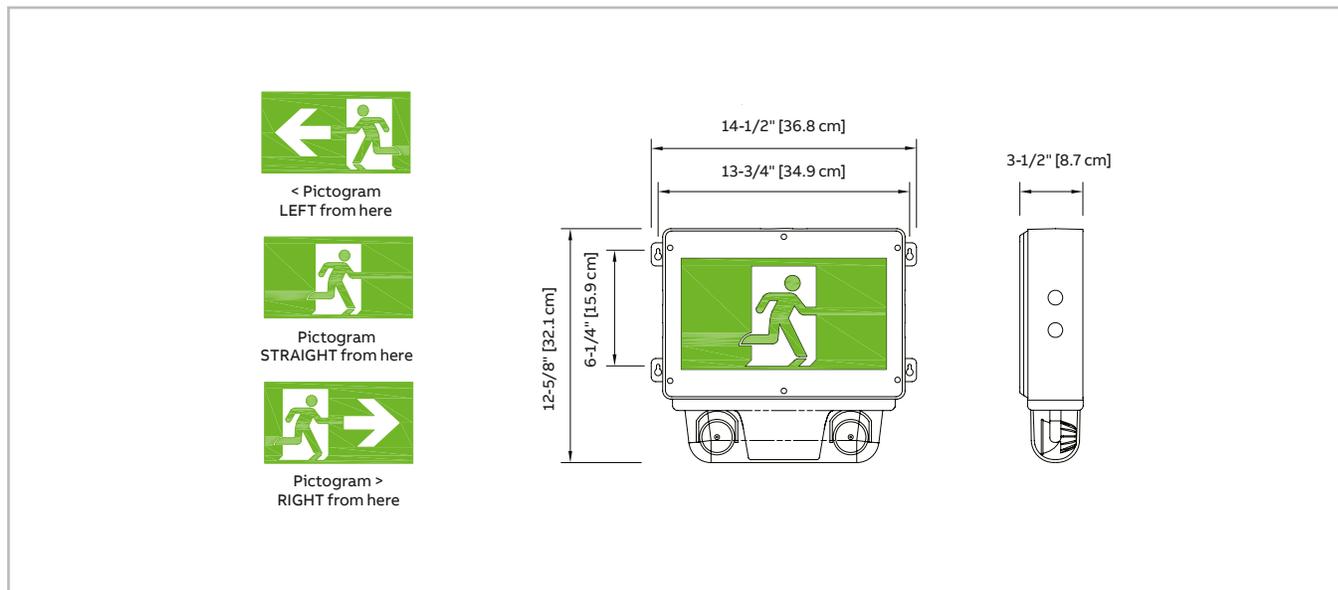
EF41 Series

EHC Series

Pictogram exit combination unit – hazardous locations
Class I Division 2- compliant

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Model	AC specs	Emergency power available for lamps				
		30 min	1H00	1H30	2H00	4H00
Pictogram sign module	Less than 2.5W	–	–	–	–	–
EHC-6L36	0.10/0.03 A	36	21	15	12	–
EHC-6L36-CW	120/347VAC 0.25/0.08 A	36	21	15	12	–
EHC-6N36	0.10/0.03 A	36	30	20	16	8
EHC-6N36-CW	0.25/0.08 A	36	30	20	16	8
EHC-12N60	0.18/0.06 A	60	40	30	20	10

Ordering information

Series	Housing colour	Battery type and power	Head style and wattage	Options
EHC= Class I Zone 2 pictogram combo	G= grey	6L36 = 6V-36W lead-calcium 6N36 = 6V-36W nickel-cadmium 12N60 = 12V-60W nickel-cadmium	Blank = no heads LA = MR16 LED, 6V-4W LB = MR16 LED, 6V-5W LG = MR16 LED, 12V-4W LI = MR16 LED, 12V-5W	-2 = 120/277/VAC input Blank = auto-diagnostics, non-audible CW = cold weather -40°C (only 6V units) D3 = time delay (15 minutes) NEX = NEXUS® system interface ¹ NEXRF = wireless NEXUS® system interface ¹ U = auto-diagnostics, audible U9 = arrow up D9 = arrow down U4 = arrow up 45° D4 = arrow down 45°

Example: EHC6N36LA

¹Consult your sales representative.

EXHZ Series

Combination unit – hazardous location, Class I, Zone 2C



Features

- Includes the addition of Class II Div 1 & 2 Groups E, F and G as well as Class III ratings
- Certified Class I Zone 2, Groups IIA, IIB and IIC
- Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No. 137-M1981
- Certified temperature Codes for several types of emergency lamps
- Certified CSA C22.2 No. 141 and C860
- Polymeric frame, with built-in gasket to prevent water infiltration
- Heavy-duty 1/8" thick aluminum back plate with keyholes for secure wall-mount installation
- Sealed faceplate of heavy-duty, vandal-resistant polycarbonate
- Suited for areas with the risk of flammable gases, vapors or liquids that can create an explosive atmosphere
- Exit sign module illuminated by long-life, energy-efficient **ALINGAP** red LEDs
- Two LED lamps, shielded by a cast aluminum housing and a polycarbonate cover
- Sealed, maintenance-free, lead-calcium or nickel-cadmium batteries
- Remote load capacity
- Comes standard with auto-diagnostic functions
- 1/2" electrical conduit entry on both sides and at the top
- NEXUS® compatible (for more information on NEXUS®, contact your sales representative)
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



nexus®

Temperature codes

Lamp rating	Temperature code	Max. temperature	Replacement part number
6V-4W LED	T4A	120°C /248°F	580.0097-E
12V-4W LED	T4A	120°C /248°F	580.0093-E
12V-5W LED	T4A	120°C /248°F	580.0104-E

Note: Use qualified replacement lamps to avoid risk of over-heating

Typical specifications

Supply and install **Emergi-Lite® EXHZ Series** combination emergency light battery unit and LED exit sign. Designed specifically for hostile environments, the equipment frame shall be of industrial grade polymer with gaskets around both sides of the frame contour. The back plate shall be made of 1/8" thick aluminum sheet and shall include knockouts for installation on an electrical box and four keyholes for alternative installation on a wall surface. The faceplate shall be constructed of heavy-duty vandal-resistant polycarbonate and feature a uniformly illuminated legend. The light source shall be light emitting diodes (LED). Red LED technology shall be **ALINGAP**. An LED sensitive diffuser shall be mounted behind the legend to provide the 6" high by 3/4" stroke letters with even illumination. When specified, the equipment shall have attached a lower compartment containing two emergency lights with adjustable swivels and long-life LED lamps of _____ V and _____ W. The lamps shall be shielded by cast aluminum housing and protected by a shock-absorbent, transparent polycarbonate cover. The equipment shall be certified for Hazardous Locations: Class I Division 2 Groups A, B, C and D. The standard AC input voltage shall be 120/347VAC. The equipment shall be equipped with a magnetic test switch located behind the faceplate and two LED pilot lights: AC-on and "Service required". The unit shall include selftesting/self-diagnostic functions monitored by a micro-controller and shall automatically self test for one minute every 30 days, 10 minutes in the 6th month and 30 minutes annually. The "Service required" LED shall light when a fault is detected. A four-LED diagnostic display located inside the equipment shall identify the source of the failure (battery, charger circuitry, or lamp load).

The combination unit shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0078-E	Wall mount

Class I Div 2 family



ENC Series

EHC Series

EH Series

HZM Series

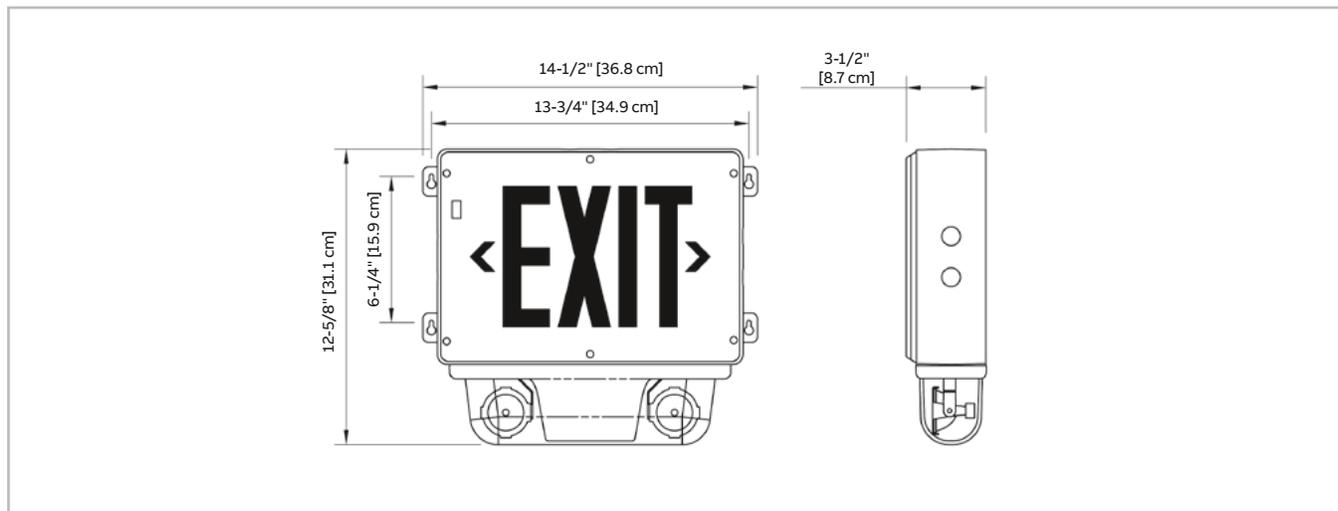
EF41 Series

EXHZ Series

Combination unit – hazardous location, Class I, Zone 2C

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Lamp rating	AC specs	Wattage capacity					
		30 min	1H00	1H30	2H00	4H00	
EXHZ-L3	120/347VAC	0.15/0.06 A	36	21	15	12	-

Ordering information

Series	Housing/face colour	Voltage	Capacity	Legend colour
EXHZ= combo exit	GG= grey/grey	2= 120/277VAC Blank= 120/347VAC	H10A= 12V-100W, NiMH N3= 6V- 36W nickel-cadmium N6A= 12V - 60W nickel-cadmium	Blank= red legend G= green legend

Charger type	Number of heads	Head style/wattage
NEX= NEXUS® wired system interface ¹	/2= two heads	LA= MR16 LED, 6V-4W
NEXRF= NEXUS® wireless system interface ¹	Blank= no heads	LB= MR16 LED, 6V-5W
U= auto-diagnostics, audible		LG= MR16 LED, 12V-4W
UN= auto-diagnostics, non-audible		LI= MR16 LED, 12V-5W
		LJ= MR16 LED, 12V-6W

¹Not all options available with NEXUS® system. Please consult your sales representative

Remote load must be connected.

Example: EXHZGGN3U/2LA

New product

EX Series

Hazardous location pictogram sign
TS Series transfer panel



Features

- CSA certified for use in hazardous locations:
 - Class I, Division 1 and 2, Groups A, B, C, D
 - Class II, Division 1 and 2, Groups E, F, G
 - Class III, Divisions 1 and 2
- Very low temperature codes (see table)
- Listed CSA C22.2 No.137-M1981
- Listed CSA 22.2 No.141
- Lighting fixture of die-cast aluminum with gray epoxy powder coat finish
- Legend housing of industrial-grade 14-gauge steel with gray enamel finish
- Supplied standard with two pictogram films per face, for direction selection
- Long-life white LED light source
- Two-wire AC/DC input available in 6, 12, 24 or 120V
- Energy efficient – consumes maximum 4.0W in AC and DC mode
- **Warranty details at: www.emergi-lite.ca**

**Table 1 – Severity codes**

Environment	Severity code
Class I Div. 1 Groups A, B	S1
Class I Div. 1 Groups C, D	S2N
Class I Div. 2 Groups A, B, C, D	S3
Class II Div. 1 & 2 Groups E, F, G	S4
Class III Div. 1 and 2	S4

Table 2 – Certification guide for EX Series (40°C ambient)

Code/rating				
Severity code	S1	S2N	S3	S4
Temperature code	T6	T6	T4A	T6
CSA/UL rating	Maximum 85° C	Maximum 85° C	Maximum 85° C	Maximum 85° C

Typical specifications

Supply and install the **Emergi-Lite® EX Series** remote pictogram signs. The lighting fixture shall have a die-cast aluminum body with gray epoxy powder coat finish and a transparent glass globe. The light source shall be long-life light-emitting diodes (LED) in a lamp assembly rated _____V. The LED assembly shall emit white light and shall consume less than 4W in AC or DC current. The legend housing shall be of industrial-grade 14-gauge steel with gray enamel finish. The faceplate(s) shall consist of three layers: a white translucent panel, a green/clear legend film and a clear polycarbonate panel for rigidity enforcement. Each faceplate shall come standard with two legend films per face, for direction selection.

The equipment shall be certified CSA C22.2 No. 137-M1981 for Hazardous Locations: Class _____, Division _____, Groups _____, with the temperature code: .

The equipment shall be certified CSA 22.2 No.141

The equipment shall be **Emergi-Lite®** model: _____ .

Power consumption and unit rating

Model	AC specs	DC specs
	6VAC	6VDC
AC/DC	12VAC	12VDC
	24VAC	24VDC
	120VAC	120VDC
	Maximum 4W	Maximum 4W

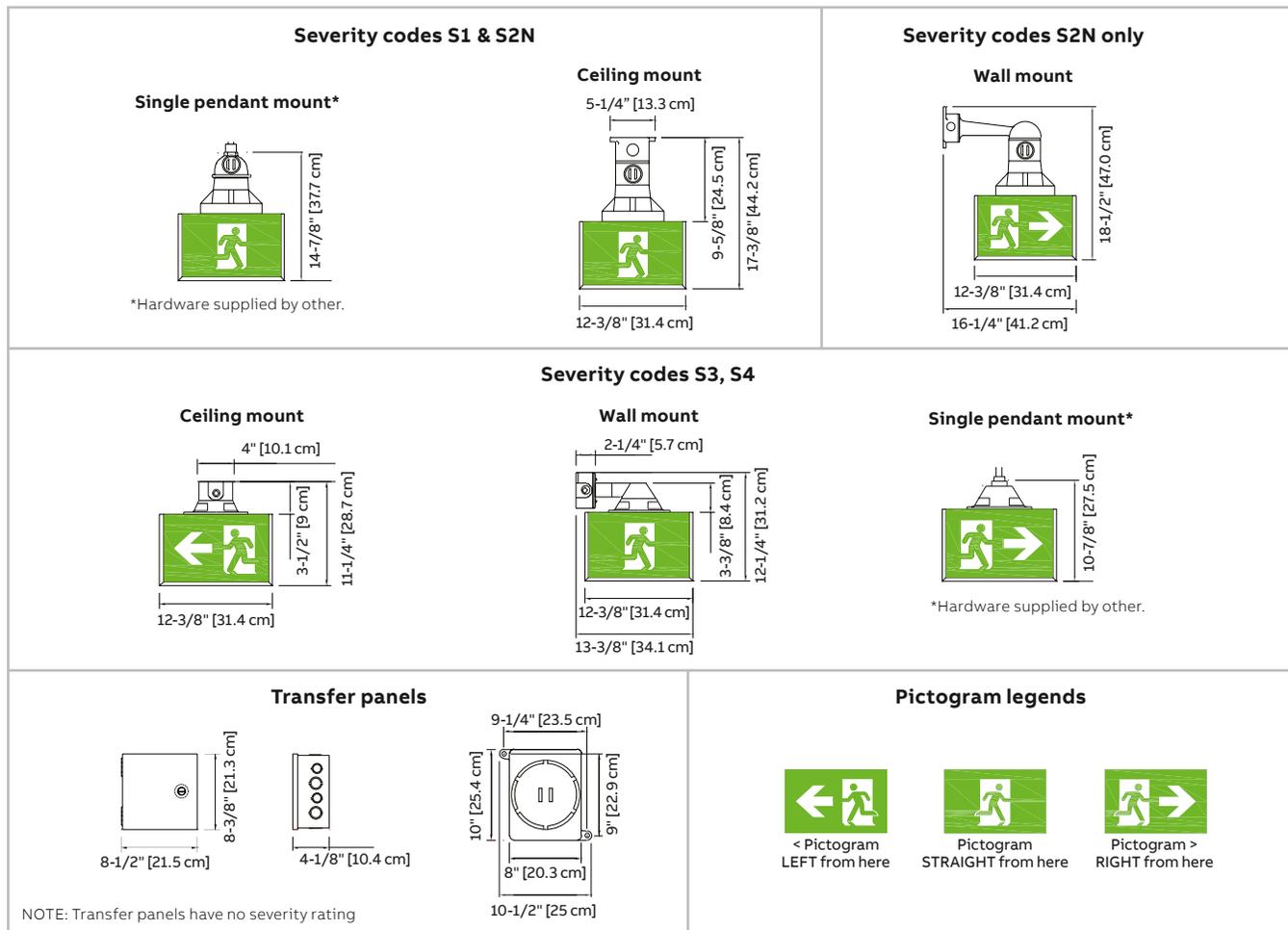
Note: Pictogram signs of 6, 12 or 24 V must be connected through transfer panels; maximum five pictogram signs per panel.

EX Series

Hazardous location pictogram sign
TS Series transfer panel

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Before ordering, identify the environment of your application: Class _____, Division _____, Group _____.
Refer to table 1 for the severity code to use in your catalogue number. For temperature information, please see table 2.

EX Series

Series	No. of faces	Severity code	Mounting	Input voltage	Options
EX= hazardous location pictogram sign	1= single face 2= double face	S1= Class I Div.1 Gr. A, B, C S2N= Class I Div.1 Gr. C, D S3= Class I Div.2 Gr. A, B, C, D S4= Class II Div.1&2 Gr. E, F, G Class III Div.1&2	C= ceiling P= pendant ¹ W= wall ²	6= 6V AC/DC 12= 12V AC/DC 24= 24V AC/DC 120= 120V AC/DC	U4= arrow up 45° U9= arrow up D4= arrow down 45° D9= arrow down

Example: EX1S1C6

¹Mounting hardware not included
²Wall mount only available for severities S2N, S3 and S4.

Transfer panels - TS Series

AC voltage	DC voltage	Series	Load wattage	Housing
120= 120VAC 277= 277VAC 347= 347VAC	-6= 6V -24= 24V -12= 12V -120= 120V	TS= transfer switch	25= 25W ¹	Blank= NEMA 1 XP= hazardous locations

Example: 120-12TS25

¹4W required per DC "Exit" load.

LPEX-XP Series

Hazardous location “Exit” sign
TS Series transfer panels



Features

LPEX-XP Series remote exit signs

- CSA certified for use in hazardous locations:
 - Class I, Divisions 1 and 2, Groups A, B, C, D
 - Class II, Divisions 1 and 2, Groups E, F, G
 - Class III, Divisions 1 and 2
- Die-cast aluminum body with grey epoxy powder coat finish
- Exit housing and faceplate made of industrial-grade 14-gauge steel and finished in grey enamel
- Faceplate features universal knockout chevrons
- Two-wire input circuit for both AC and DC inputs
- Available in 6, 12, 24 and 120VAC/DC
- LED lamp with **ALINGAP** LEDs; consumes less than 5W in AC and DC mode
- New, easy-to-build catalogue number based on the **Emergi-Lite®** severity codes
- Listed CSA C22.2 No. 137-M1981
- Listed CSA 22.2 No. 141
- Also available as self-powered exit sign, battery unit and combo unit; see **EXP** catalogue sheet

TS Series transfer switch

- Available with explosion-proof housing (Class 1, Division 1) or NEMA-1 housing (for use outside the hazardous location area)
- Standard AC input: 120VAC, optional 277VAC, 347VAC; standard DC input: 6, 12 or 24VDC
- Two-wire output with permanently present AC/DC low voltage
- Output power: 25W, can drive up to five (5) units of the **LPEX-XP** remote exit series
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® LPEX-XP Series** remote exit sign. The exit housing shall be industrial grade 14-gauge steel and finished in grey enamel. The faceplate will be constructed of heavy-duty 14-gauge steel and feature universal knockout chevrons and the red letters shall not be less than 6" in height with a 3/4" stroke. The sign shall come complete with a _____ Volt LED lamp, and function from one voltage source only, in AC and DC current. The LED Lamp shall use **ALINGAP** LEDs and shall consume less than 5W in either AC or DC current.

The equipment shall be certified CSA C22.2 No. 137-M1981 for hazardous locations: Class _____, Division _____, Group _____ with the temperature code _____.

The equipment shall be certified 22.2 No. 141.

The exit sign shall be **Emergi-Lite®** model: _____.

TS Series transfer switch:

Supply and install the **Emergi-Lite® TS Series** transfer switch for hazardous location remote exit signs. The unit shall have two voltage inputs: _____ VAC and _____ VDC and shall be able to maintain an output of _____ V 25W for the permanent supply of a total of five remote LED exit signs.

The transfer switch shall be suitable for Class _____, Division _____, Group _____ or for a NEMA 1 environment.

The unit shall be **Emergi-Lite®** model: _____.

Power consumption and unit rating

Model	AC specs	DC specs
_____	6VAC	6VDC
AC/DC red two-wire _____	12VAC	12VDC
_____	24VAC	24VDC
_____	120VAC	120VDC
	Less than 5W	Less than 5W

Note: Exit signs of 6, 12 or 24 V must be connected through transfer panels; maximum five exit signs per panel.

Table 1 – Severity codes

Environment	Severity code
Class I Div. 1 Groups A, B	S1
Class I Div. 1 Groups C, D	S2N
Class I Div. 2 Groups A, B, C, D	S3
Class II Div. 1 & 2 Groups E, F, G Class III Div. 1 and 2	S4

Table 2 – Certification guide for LPEX-XP Series (40°C ambient)

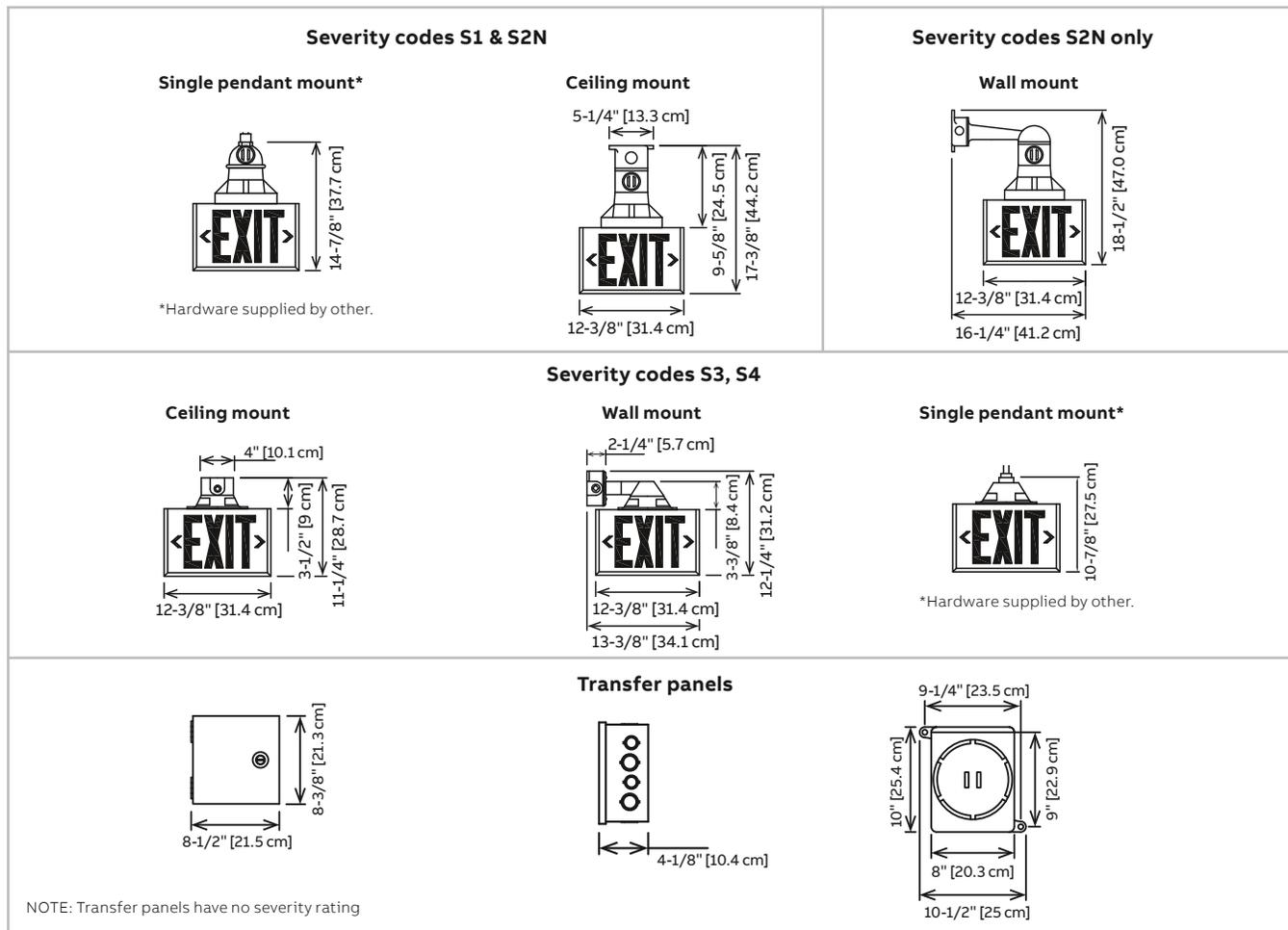
Code/rating	S1	S2N	S3	S4
Severity code	S1	S2N	S3	S4
Temperature code	T6	T6	T3C	T3C (E.G.F.)
CSA/UL rating	Max. 85°C (185°F)	Max. 85°C (185°F)	Max. 160°C (320°F)	Max. 160°C (320°F)

LPEX-XP Series

Hazardous location “Exit” sign
TS Series transfer panels

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Before ordering, identify the environment of your application: Class _____, Division _____, Group _____.
 Refer to table 1 for the severity code to use in your catalogue number. For temperature information, please see table 2.

LPEX-XP Series

Series	Mounting	Severity code	Voltage	Lamp type
LPEXXP1= exit single face C860	C= ceiling	S1= Class I Div.1 Gr. A, B, C	-EM6= 6V	Blank= LED less than 5W
LPEXXP2= exit double face C860 LED	P= pendant ¹ W= wall ²	S2N= Class I Div.1 Gr. C, D S3= Class I Div.2 Gr. A, B, C, D S4= Class II Div.1&2 Gr. E, F, G Class III Div.1&2	-EM12= 12V -EM24= 24V -EM120= 120V	

Example: LPEXXP1CSI-EM6

¹Mounting hardware not included
²Wall mount only available for severities S2N, S3 and S4.

Transfer panels - TS Series

AC voltage	DC voltage	Series	Load wattage	Housing
120= 120VAC	-6= 6V -24= 24V	-TS= transfer switch	25= 25W ¹	Blank= NEMA 1 XP= hazardous locations
277= 277VAC	-12= 12V -120= 120V			
347= 347VAC				

Example: 120-6-TS-25XP

¹5W required per DC “Exit” load.

C8SRXP Series

“Sortie” sign and transfer panels
for hazardous locations



Features

Remote Sortie Sign Series

- CSA certified for use in hazardous locations:
 - Class I, Divisions 1 and 2, Groups A, B, C, D
 - Class II, Divisions 1 and 2, Groups E, F, G
 - Class III, Divisions 1 and 2
- Die-cast aluminum body with grey epoxy powder coat finish
- Sortie sign housing and faceplate made of 14-gauge steel, grey enamel finish
- Faceplate features universal directional chevrons (knockouts)
- Two-wire circuit for both AC and DC inputs
- Available in 6, 12, 24 and 120VAC/DC
- Light source is **ALINGAP** LEDs; consumes less than 5W in AC or DC mode
- New, easy-to-build catalog number based on the **Emergi-Lite®** severity codes
- Listed CSA C22.2 No. 137-M1981
- Listed CSA 22.2 No. 141
- Also available as self-powered exit sign, battery unit and combo unit; see **EXP** catalogue sheet

Transfer switch

- Available with housing for hazardous locations
- (Class 1, Division 1) or NEMA-1 housing (for use outside the hazardous location area)
- Standard AC input: 120VAC, optional: 277VAC, 347VAC
- Standard DC input: 6, 12 or 24VDC
- Two-wire output with permanently present AC/DC low voltage
- Output power: 25W, can drive up to five (5) remote units **Series C8SRXP**
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® C8SRXP Series** remote “SORTIE” sign. The exit housing shall be industrial grade 14-gauge steel and finished in grey enamel. The faceplate will be constructed of heavy-duty 14-gauge steel and feature universal knockout chevrons and the red letters shall not be less than 6" in height with a 3/4" stroke. The sign shall come complete with a _____ Volt LED lamp, and function from one voltage source only, in AC and DC current. The LED Lamp shall use **ALINGAP** LEDs and shall consume less than 5W in either AC or DC current.

The equipment shall be certified CSA C22.2 No. 137-M1981 for hazardous locations: Class ____, Division ____, Group ____ with the temperature code ____.

The equipment shall be certified 22.2 No. 141

The sortie sign shall be **Emergi-Lite®** model: _____.

TS Series transfer switch:

Supply and install the **Emergi-Lite® TS Series** transfer switch for hazardous location remote exit signs. The unit shall have two voltage inputs: _____ VAC and _____ VDC and shall be able to maintain an output of _____ V 25W for the permanent supply of a total of five remote LED exit signs.

The transfer switch shall be suitable for Class _____, Division _____, Group _____ or for a NEMA 1 environment.

The unit shall be **Emergi-Lite®** model: _____.

Power consumption and unit rating

Model	AC specs	DC specs
_____	6VAC	6VDC
AC/DC red two-wire _____	12VAC	12VDC
_____	24VAC	24VDC
_____	120VAC	120VDC
	Less than 5W	Less than 5W

Note: Sortie signs of 6, 12 or 24 V must be connected through transfer panels; maximum five signs per panel.

Table 1 – Severity codes

Environment	Severity code
Class I Div. 1 Groups A, B	S1
Class I Div. 1 Groups C, D	S2N
Class I Div. 2 Groups A, B, C, D	S3
Class II Div. 1 & 2 Groups E, F, G Class III Div. 1 and 2	S4

Table 2 – Certification guide for C8SRXP Series (40°C ambient)

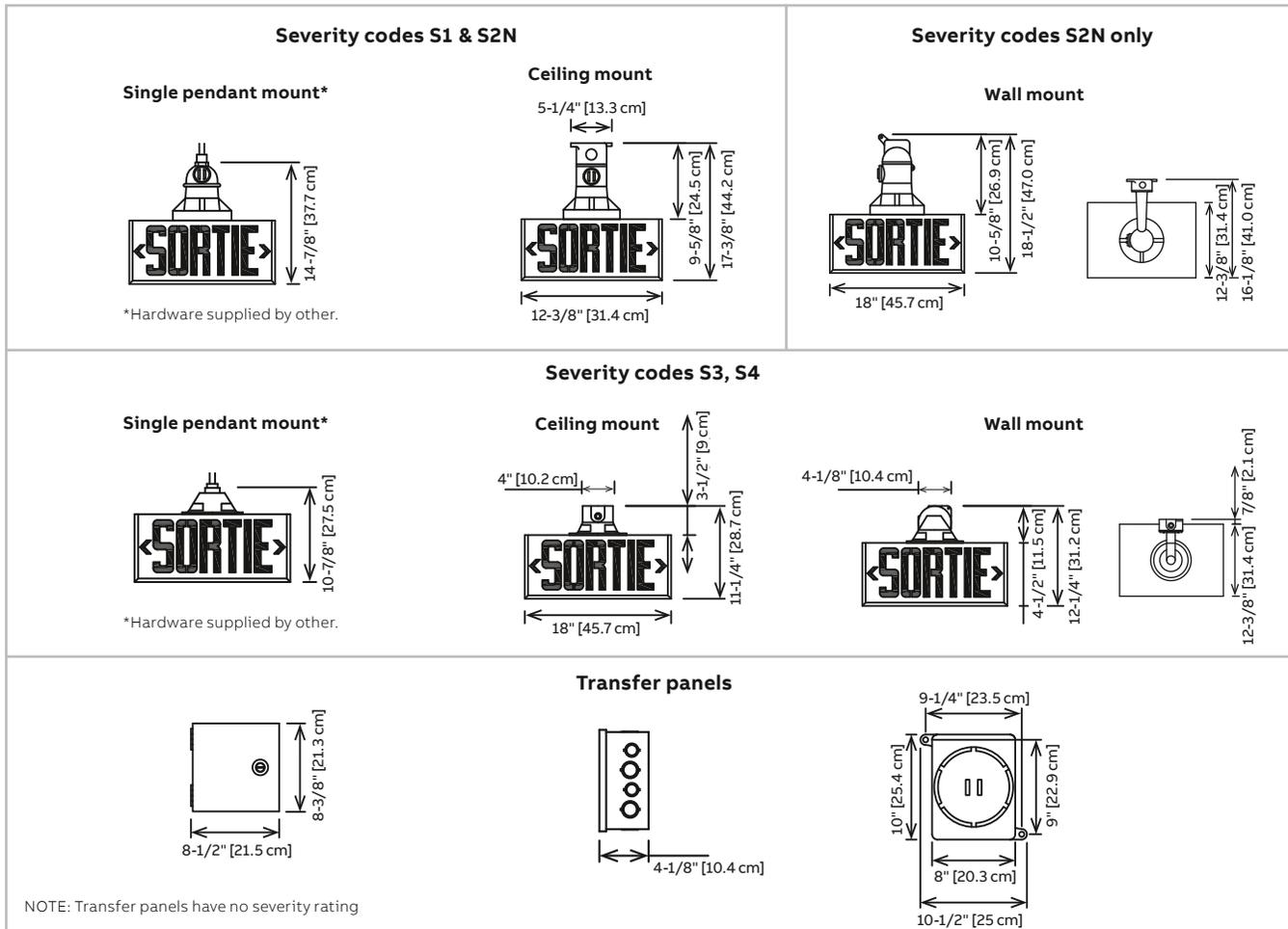
Code/rating				
Severity code	S1	S2N	S3	S4
Temperature code	T6	T6	T3C	T3C (E.G.F.)
CSA/UL rating	Max. 85°C (185°F)	Max. 85°C (185°F)	Max. 160°C (320°F)	Max. 160°C (320°F)

C8SRXP Series

“Sortie” sign and transfer panels for hazardous locations

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Before ordering, identify the environment of your application: Class _____, Division _____, Group _____.
 Refer to table 1 for the severity code to use in your catalogue number. For temperature information, please see table 2.

C8SRXP Series

Series	Mounting	Severity code	Voltage
C8SRXP1= sortie single face	C= ceiling	S1= Class I Div.1 Gr. A, B, C	-EM6= 6V
C8SRXP2= sortie double face	P= pendant ¹	S2N= Class I Div.1 Gr. C, D	-EM12= 12V
	W= wall ²	S3= Class I Div.2 Gr. A, B, C, D	-EM24= 24V
		S4= Class II Div.1&2 Gr. E, F, G	-EM120= 120V
		Class III Div.1&2	

¹Mounting hardware not included
²Wall mount only available for severities S2N, S3 and S4, single face.

Example: C8SRXP1CS1EM6

Transfer panels - TS Series

AC voltage	DC voltage	Series	Load wattage	Housing
120= 120VAC	-6= 6V -24= 24V	-TS= transfer switch	25= 25W ¹	Blank= NEMA 1
277= 277VAC	-12= 12V -120= 120V			XP= hazardous locations
347= 347VAC				

Example: 120-6-TS-25XP

¹5W required per DC “Sortie” load.

New product

EXP LED “Picto” Series

Battery units, self-powered pictogram signs, combination units



Features

CSA certified for use in hazardous locations

The **EXP LED Pictogram Series** of battery equipment is designed to cover emergency lighting applications for the entire spectrum of hazardous locations, where inflammable gases, vapors, liquids, dust particles or fabrics tissues are permanently present or are likely to exist.

The **EXP LED Pictogram Series** combines in one simple-to-order catalogue family three traditional emergency lighting products with battery back-up: battery units with emergency lights, self-powered pictogram signs, and combination units with emergency lights and pictogram sign. The equipment is also available with additional emergency power capacity to drive remote heads and pictogram signs.

*Comes with arrow and no arrow.

- CSA certified for use in hazardous locations:
 - Class I, Division 1, Groups B, C, D
 - Class I, Division 2, Groups A, B, C, D
 - Class II, Divisions 1 and 2, Groups E, F, G
 - Class III, Divisions 1 and 2
- For wall mount only
- Die-cast aluminum body with grey epoxy powder coat finish; clear, impact and heat resistant prismatic glass globe
- Long-life, maintenance-free lead-calcium battery
- Battery charger is current limited, temperature compensated, short-circuit proof and reverse polarity protected
- Emergency heads with one or twin lamp design
- Large self-powered combo includes a transfer circuit to drive an additional three (3) remote pictogram signs (total power max 15W)
- Easy-to-build catalogue number based on the **Emergi-Lite®** severity codes
- Meets or exceeds CSA 22.2 No.141-15 & No. 137
- **Warranty details at: www.emerji-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® EXP LED Pictogram Series** of hazardous location battery unit equipment. The battery unit housing will be constructed of die cast aluminum with grey epoxy powder coat finish and equipped with heavy-duty key holes for wall mount. The equipment shall be rated for 120, 277 or 347V, 60 Hz input and be CSA listed. The equipment shall have an output of _____ V and _____ W and shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The battery shall be a long-life, maintenance-free lead-calcium type. The charger shall be fully computer tested and have its charge voltage set in the factory to $\pm 1\%$ tolerance. The charger shall be current limited, temperature compensated, short circuit proof and reverse polarity protected. The charger shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit.

Where required the equipment shall come complete with _____ heads, each of them equipped with _____ lamp(s) of _____ W.

The head housing shall be die-cast aluminum with grey epoxy powder coat finish. The lenses shall be a clear, impact and heat resistant prismatic glass globe. The head shall be factory sealed, with no need for external seals.

Where required the equipment shall come complete with one pictogram sign and will include a transfer circuit to maintain the pictogram sign permanently lighting in both normal and emergency operation. The picto housing shall be industrial grade 14-gauge steel and finished in grey enamel. The faceplate will be constructed of heavy-duty 14-gauge steel.

The equipment shall be certified CSA C22.2 No.137-M1981 for hazardous locations: Class _____, Division _____, Group _____ with the temperature code _____.

The pictogram sign shall be CSA C22.2 No.141-10 certified.

The equipment shall be **Emergi-Lite®** model: _____

Temperature codes for EXP-P series – measured at 40°C ambient

Explosion-proof equipment is composed of one or more modules, each of them qualified for a specific temperature code. The temperature code of the complete equipment (enclosure + picto sign + emergency heads) is defined as the most severe of the temperature codes identified for each of the modules below.

Severity code	S1	S2	S3	S4
Temperature code	T6	T6	T6	T6
	85°C (185°F)	85°C (185°F)	120°C (248°F)	85°C (185°F)

EXP Series severity code selection chart

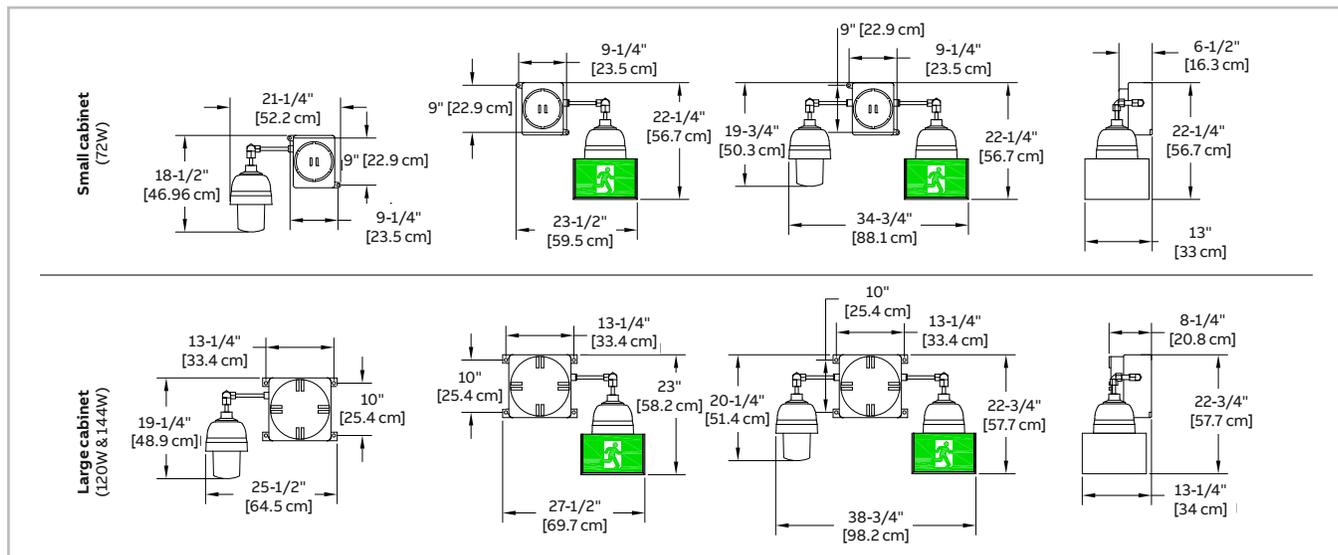
Environment	Severity code
Class I, Div. 1 & 2, Gr. B	S1
Class I, Div. 1, Gr. C, D	S2
Class I, Div. 2, Gr. A, B, C, D	S3
Class II, Div. 1 & 2, Gr. E, F, G & Class III	S4

EXP LED “Picto” Series

Battery units, self-powered pictogram signs, combination units

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Unit capacity	AC specs			Wattage capacity			
	Input voltage	Input rating	30 min	1H00	1H30	2H00	4H00
12V-72W ¹	120V, 60Hz	0.25A, 25W					
	277V, 60Hz	0.125A, 28W	72	36	25	20	10
	347V, 60 Hz	0.115A, 28W					
12V-120W	120V, 60Hz	0.45A, 37W					
	277V, 60Hz	0.209A, 42W	120	60	40	30	15
	347V, 60 Hz	0.176A, 42W					
24V-144W	120V, 60Hz	0.465A, 38W					
	277V, 60Hz	0.208A, 42W	144	72	50	40	20
	347V, 60 Hz	0.178A, 42W					

¹Combo, no remote exit capability

Ordering information

Series	Capacity	AC voltage	Options	Sign/face
12EXP= 12V	72= 72W ¹	-2= 277VAC input	Blank= no options	Blank= no sign
24EXP= 24V	120= 120W	-3= 347VAC input	D= time delay (15 min.)	D4= arrow down 45° ¹
	144= 144W	Blank= 120VAC	TS= transfer switch ¹	D9= arrow down ¹
				P1= Single face LED pictogram
				P2= Double face LED pictogram
				U9= arrow up ¹
				U4= arrow up 45° ¹
	¹ Combo, no remote exit capability		¹ Not available with 12V-72W	¹ Indicate P1 or P2
Head style	Severity code		Lamp type, voltage & power	
/11= single remote, 1 lamp	/21= double remote, 1 lamp each ¹	S1= Cl.I, Div.1&2, Gr.B	Blank= no lamp	
/12= single remote, 2 lamps	Blank= no heads	S2= Cl.I, Div.1, Gr. C, D	LG= 12V-4W MR16 LED	
		S3= Cl.I, Div.2, Gr. A, B, C, D	LI= 12V-5W MR16 LED	
		S4= Cl.II, Div.1&2, Gr. E, F, G & CLIII	LJ= 12V-6W MR16 LED	
			LL= 24V-4W MR16 LED	

Example: 12EXP72-2DP1/11S1LG

¹Not available with pictogram sign

New product

EXP LED "Exit" Series

Battery units, self-powered exit signs, combination units



Features

CSA certified for use in hazardous locations

The **EXP LED EXIT Series** of battery equipment is designed to cover emergency lighting applications for the entire spectrum of hazardous locations, where inflammable gases, vapors, liquids, dust particles, fabrics or tissues are permanently present or are likely to exist.

The **EXP LED EXIT Series** combines in one simple-to-order catalogue family three traditional emergency lighting products with battery back-up: battery units with emergency lights, self-powered exit signs, and combination units with emergency lights and exit sign. The equipment is also available with additional emergency power capacity to drive remote heads and exit signs.

- CSA certified for use in hazardous locations:
 - Class I, Division 1, Groups B, C, D
 - Class I, Division 2, Groups A, B, C, D
 - Class II, Divisions 1 and 2, Groups E, F, G
 - Class III, Divisions 1 and 2
- For wall mount only
- Die-cast aluminum body with grey epoxy powder coat finish; clear, impact and heat resistant prismatic glass globe
- Long-life, maintenance-free lead-calcium battery
- Battery charger is current limited, temperature compensated, short-circuit proof and reverse polarity protected
- Emergency heads with one or twin lamp design
- Large self-powered exit (combo) includes a transfer circuit to drive three (3) remote LED-based remote exit signs (total power max 15W)
- Self-powered combo includes a transfer panel to drive three remote LED based remote exit signs
- Meets or exceeds CSA C22.2 No. 141-10 & No. 137
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® EXP EXIT LED Series** of hazardous location battery unit equipment. The battery unit housing will be constructed of die cast aluminum with grey epoxy powder coat finish and equipped with heavy-duty key holes for wall mount. The equipment shall be rated for 120, 277 or 347V, 60 Hz input and be CSA listed. The equipment shall have an output of _____ V and _____ W and shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The battery shall be a long-life, maintenance-free lead-calcium type. The charger shall be fully computer tested and have its charge voltage set in the factory to $\pm 1\%$ tolerance. The charger shall be current limited, temperature compensated, short circuit proof and reverse polarity protected. The charger shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit.

Where required the equipment shall come complete with _____ heads, each of them equipped with _____ lamp(s) of _____ W. The head housing shall be die-cast aluminum with grey epoxy powder coat finish. The lenses shall be a clear, impact and heat resistant prismatic glass globe. The head shall be factory sealed, with no need for external seals.

Where required the equipment shall come complete with one exit sign and will include a transfer circuit to maintain the exit sign permanently lighting in both normal and emergency operation. The exit housing shall be industrial grade 14-gauge steel and finished in grey enamel. The faceplate will be constructed of heavy-duty 14-gauge steel.

The equipment shall be certified CSA C22.2 No.137-M1981 for hazardous locations: Class _____, Division _____, Group _____ with the temperature code _____.

The exit sign shall be CSA C22.2 No.141-10 certified.

The equipment shall be **Emergi-Lite®** model: _____.

Temperature codes for EXP-P Series – measured at 40°C ambient

Explosion-proof equipment is composed of one or more modules, each of them qualified for a specific temperature code. The temperature code of the complete equipment (enclosure + picto sign + emergency heads) is defined as the most severe of the temperature codes identified for each of the modules below.

Severity code	S1	S2	S3	S4
Temperature code	T6	T6	T6	T6
	85°C (185°F)	85°C (185°F)	120°C (248°F)	85°C (185°F)

EXP Series severity code selection chart

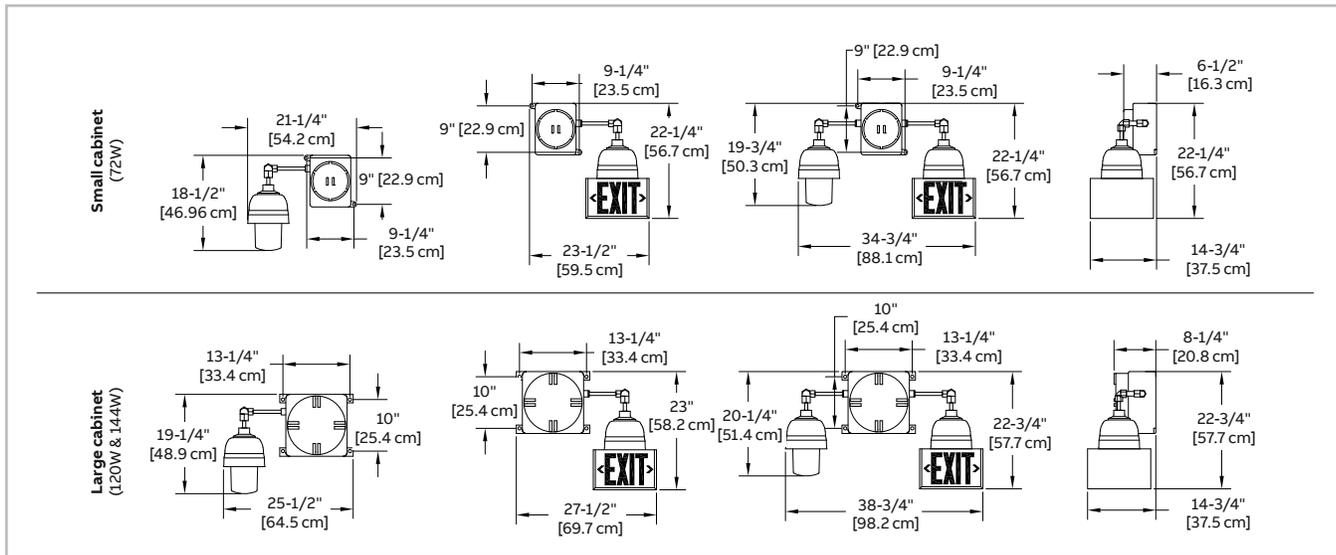
Environment	Severity code
Class I, Div. 1 & 2, Gr. B	S1
Class I, Div. 1, Gr. C, D	S2
Class I, Div. 2, Gr. A, B, C, D	S3
Class II, Div. 1 & 2, Gr. E, F, G & Class III	S4

EXP LED “Exit” Series

Battery units, self-powered exit signs, combination units

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Unit capacity	AC specs			Wattage capacity			
	Input voltage	Input rating	30 min	1H00	1H30	2H00	4H00
12V-72W ¹	120V, 60Hz	0.25A, 25W					
	277V, 60Hz	0.125A, 28W	72	36	25	20	10
	347V, 60 Hz	0.115A, 28W					
12V-120W	120V, 60Hz	0.45A, 37W					
	277V, 60Hz	0.209A, 42W	120	60	40	30	15
	347V, 60 Hz	0.176A, 42W					
24V-144W	120V, 60Hz	0.465A, 38W					
	277V, 60Hz	0.208A, 42W	144	72	50	40	20
	347V, 60 Hz	0.178A, 42W					

¹Combo, no remote exit capability

Ordering information

Series	Capacity	AC voltage	Options	Sign/face
12EXP= 12V	72= 72W ¹	-2= 277VAC input -3= 347VAC input Blank= 120VAC	Blank= no options D= time delay (15 min.) TS= transfer switch ¹	Blank= no sign E1= single face LED “EXIT” E2= double face LED “EXIT”
	120= 120W			
24EXP= 24V	144= 144W	Head style	Severity code	Lamp type, voltage & power
	¹ Combo, no remote exit capability	/11= single remote, 1 lamp /12= single remote, 2 lamps /21= double remote, 1 lamp each ¹ Blank= No heads	S1= Cl.I, Div.1&2, Gr.B S2= Cl.I, Div.1, Gr. C, D S3= Cl.I, Div.2, Gr. A, B, C, D S4= Cl.II, Div.1&2, Gr. E, F, G & CLIII	Blank= no lamp LG= 12V-4W MR16 LED LI= 12V-5W MR16 LED LJ= 12V-6W MR16 LED LL= 24V-4W MR16 LED

¹Not available with 12V-72W

Example: 12EXP72-2E1/11S1LG

¹Not available with exit sign

New product

EXP LED “Sortie” Series

Battery units, self-powered sortie signs, combination units



Features

CSA certified for use in hazardous locations

The **EXP LED “SORTIE” Series** of battery equipment is designed to cover emergency lighting applications for the entire spectrum of hazardous locations, where inflammable gases, vapors, liquids, dust particles or fabrics tissues are permanently present or are likely to exist.

The **EXP LED “SORTIE” Series** combines in one simple-to-order catalogue family three traditional emergency lighting products with battery back-up: battery units with emergency lights, self-powered sortie signs, and combination units with emergency lights and sortie sign. The equipment is also available with additional emergency power capacity to drive remote heads and sortie signs.

- CSA certified for use in hazardous locations:
 - Class I, Division 1, Groups B, C, D
 - Class I, Division 2, Groups A, B, C, D
 - Class II, Divisions 1 and 2, Groups E, F, G
 - Class III, Divisions 1 and 2
- For wall mount only
- Die-cast aluminum body with grey epoxy powder coat finish; clear, impact and heat resistant prismatic glass globe
- Long life, maintenance-free lead-calcium battery
- Battery charger is current limited, temperature compensated, short-circuit proof and reverse polarity protected
- Emergency heads with one or twin lamp design
- Large self-powered sortie (combo) includes a transfer circuit to drive three (3) LED-based remote exit signs (total power max 15W)
- New, easy-to-build catalogue number based on the **Emergi-Lite®** severity codes
- Meets or exceeds CSA C22.2 No.141-10 & No. 137
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install the **Emergi-Lite® EXP LED SORTIE Series** of hazardous location battery unit equipment. The battery unit housing will be constructed of die cast aluminum with grey epoxy powder coat finish and equipped with heavy-duty key holes for wall mount. The equipment shall be rated for 120, 277 or 347V, 60 Hz input and be CSA listed. The equipment shall have an output of _____ V and _____ W and shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The battery shall be a long-life, maintenance-free lead-calcium type. The charger shall be fully computer tested and have its charge voltage set in the factory to $\pm 1\%$ tolerance. The charger shall be current limited, temperature compensated, shortcircuit proof and reverse polarity protected. The charger shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit.

Where required the equipment shall come complete with _____ heads, each of them equipped with _____ lamp(s) of _____ W. The head housing shall be die-cast aluminum with grey epoxy powder coat finish. The lenses shall be a clear, impact and heat resistant prismatic glass globe. The head shall be factory sealed, with no need for external seals.

Where required the equipment shall come complete with one sortie sign and will include a transfer circuit to maintain the sortie sign permanently lighting in both normal and emergency operation. The exit housing shall be industrial grade 14-gauge steel and finished in grey enamel. The faceplate will be constructed of heavy-duty 14-gauge steel.

The equipment shall be certified CSA C22.2 No.137-M1981 for hazardous locations: Class _____, Division _____, Group _____ with the temperature code _____.

The Sortie Sign shall be CSA C22.2 No.141-10 certified.

The equipment shall be **Emergi-Lite®** model: _____.

Temperature codes for EXP-P Series – measured at 40°C ambient

Explosion-proof equipment is composed of one or more modules, each of them qualified for a specific temperature code. The temperature code of the complete equipment (enclosure + picto sign + emergency heads) is defined as the most severe of the temperature codes identified for each of the modules below.

Severity code	S1	S2	S3	S4
Temperature code	T6	T6	T6	T6
	85°C (185°F)	85°C (185°F)	120°C (248°F)	85°C (185°F)

EXP Series severity code selection chart

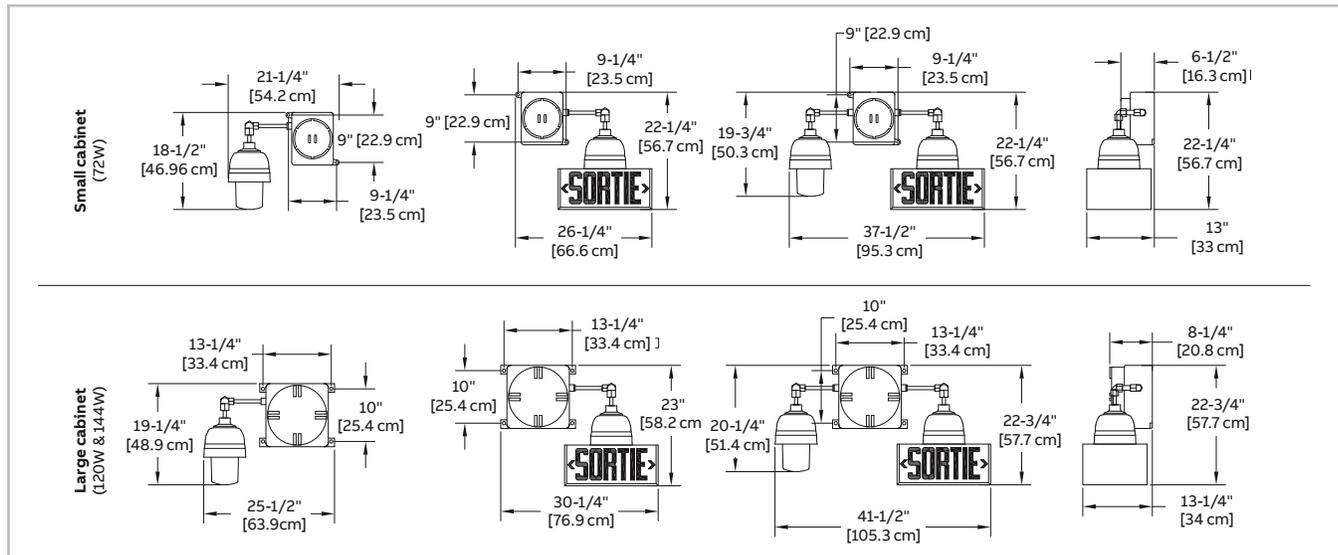
Environment	Severity code
Class I, Div. 1 & 2, Gr. B	S1
Class I, Div. 1, Gr. C, D	S2
Class I, Div. 2, Gr. A, B, C, D	S3
Class II, Div. 1 & 2, Gr. E, F, G & Class III	S4

EXP LED “Sortie” Series

Battery units, self-powered sortie signs, combination units

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Unit capacity	AC specs		Wattage capacity				
	Input voltage	Input rating	30 min	1H00	1H30	2H00	4H00
12V-72W ¹	120V, 60Hz	0.25A, 25W					
	277V, 60Hz	0.125A, 28W	72	36	25	20	10
	347V, 60 Hz	0.115A, 28W					
12V-120W	120V, 60Hz	0.45A, 37W					
	277V, 60Hz	0.209A, 42W	120	60	40	30	15
	347V, 60 Hz	0.176A, 42W					
24V-144W	120V, 60Hz	0.465A, 38W					
	277V, 60Hz	0.208A, 42W	144	72	50	40	20
	347V, 60 Hz	0.178A, 42W					

¹Combo, no remote exit capability

Ordering information

Series	Capacity	AC voltage	Options	Sign/face
12EXP= 12V	72= 72W ¹	-2= 277VAC input -3= 347VAC input Blank= 120VAC	Blank= no sign D= time delay (15 min.) TS= transfer switch ¹	Blank= no sign S1= single face LED “SORTIE” S2= double face LED “SORTIE”
	120= 120W			

¹Not available with 12V-72W

24EXP= 24V	144= 144W	Head style	Severity code	Lamp type, voltage & power
	¹ Combo, no remote exit capability	/11= single remote, 1 lamp /12= single remote, 2 lamps /21= double remote, 1 lamp each ¹ Blank= no heads	S1= Cl.I, Div.1&2, Gr.B S2= Cl.I, Div.1, Gr. C, D S3= Cl.I, Div.2, Gr. A, B, C, D S4= Cl.II, Div.1&2, Gr. E, F, G & CLIII	Blank= no lamp LG= 12V-4W MR16 LED LI= 12V-5W MR16 LED LJ= 12V-6W MR16 LED LL= 24V-4W MR16 LED

Example: 12EXP72-2S1/11S1LG

¹Not available with sortie sign

ET Series

Power-free pictogram sign



Features

- Illumination provided by borosilicate glass tubes, internally coated with zinc sulphide phosphor and filled with tritium gas
- Minimum brightness at time of manufacture is 0.132 foot-lambert (0.452 cd/m²)
- Decorative, slim-line heavy-duty ABS housing
- Rugged, impact-resistant polycarbonate face
- Spark-free construction
- Simple installation – universal direction capability, comes complete with universal mounting hardware
- Stands up to extreme temperatures in outdoor or indoor applications
- Life expectancy of 10 years (pictogram)
- Available in single or double face
- Certified to standard UL924 (ULC-S572)
- Pictogram sign includes universal stencils (straight from here, left from here and right from here)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Offered in a variety of colours and lengths, **Emergi-Lite® Pendant Kits** are designed to facilitate the installation of exit signs at regular mounting heights.

Compatible with both horizontal and sloped ceilings, these pendant kits are truly universal and will adapt to any application.

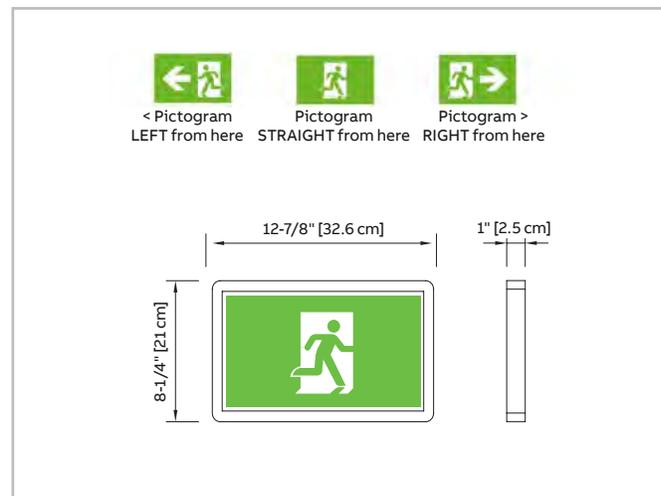
Please consult your sales representative.

Wire guards

Ordering code	Description
460.0079-E	Wall mount
460.0027-E	End mount
460.0028-E	Ceiling mount

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Faceplates and mounting	Frame colours	Life years	Options
ET= Pictogram sign	1= single face universal mount and chevrons 2= double face universal mount and chevrons	AF= aluminum frame B= black G= grey W= white	10= 10 years	PC= polycarbonate shield VR= vandal cover

Example: ET1AF10

Frame colour



Aluminum



Black



Grey



Factory white

Pendant Kit



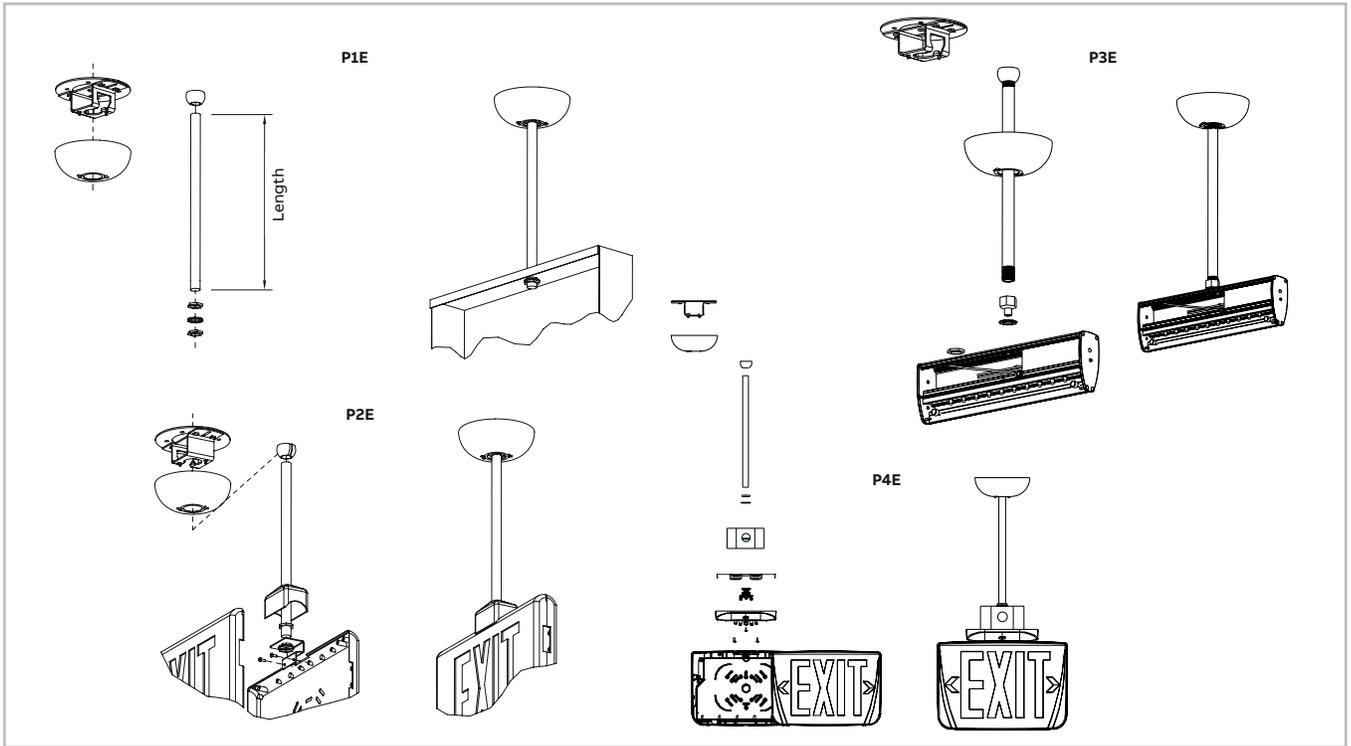
Typical specifications

Supply and install **Emergi-Lite® ET (PICTOGRAM) Series** self-luminous exit signs. The exit sign shall be constructed of a thermoplastic housing and be corrosion proof. The sealed housing will incorporate no loose or removable parts allowing for easy installation. The standard minimum guaranteed life will be 10 years. The standard mounting brackets will allow for either end/ceiling or wall mount. The initial average minimum brightness shall be 0.132 foot-lambert (0.452 cd/m²).

The equipment shall be **Emergi-Lite®** model: _____.

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Length (inches)		Colour
P1E ¹ Standard model of pendant	6	18	W= white
	12	24	B= black SG= silver grey
P2E ¹ Prestige™ Series	6	18	W= white
	12	24	B= black SG= silver grey
P3E ¹ Aluminum slim edge-lit	6	18	W= white
	12	24	B= black SG= silver grey
P4E ¹ Premier™ plastic exit	6	18	W= white
	12	24	B= black

¹Other lengths available on demand. Consult your sales representative

Special Wording

Illuminated signage



Typical specifications

Custom-worded, illuminated signage is available using the same sturdy construction and electrical design as **Emergi-Lite®** exit signage.

A wide range of sign body options and colour choices are available to suit any application.

Contact your local **Emergi-Lite®** sales representative to discuss your specific requirements.

Features

- The same sturdy construction and electrical design used in our exit signs is used to produce our custom-worded, illuminated signage
- Sign bodies - steel, extruded and die-cast aluminum, weatherproof, flame-retardant polycarbonate, high impact thermoplastic, recessed housing
- Also available with self-powered canopy and with emergency lamps
- Custom wording – any style of lettering, any language, any alphabet, any special characters
- Graphics – logos, standard symbols, custom art
- Colour choices – sign bodies, message, faceplate panel
- Illumination – LED (light-emitting diodes) – other light sources available - consult representative
- White-out, black-out and split picture options
- **Warranty details at: www.emergi-lite.ca**



White-out option

Black-out option



Non-illuminated



Illuminated



Non-illuminated



Illuminated

When the sign is non-illuminated the acrylic panel in the faceplate appears blank white. The message appears only when the sign is illuminated.

When the sign is non-illuminated the acrylic panel in the faceplate appears black. The message appears only when the sign is illuminated.

Glossary

U	Auto-diagnostic	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) and audible warning. Complies with Fire Code requirements.
UN	Auto-diagnostic (non-audible)	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) warning. Complies with Fire Code requirements.
CW1	Cold weather, 120VAC	120VAC input cold weather protection feature for applications where temperatures can reach -40° C.
CW3	Cold weather, 347VAC	347VAC input cold weather protection feature for applications where temperatures can reach -40° C.
NEX	NEXUS® system interface	The NEXUS® system interface is a computerized maintenance system for emergency lighting that, once programmed, will perform the tests, keep written records and send a notification if anything needs to be fixed. One full system can address hundreds of units in as many buildings as you need from a single location.
D/D3	Time delay (15 minutes)	Normally, when the AC power is restored, all emergency lighting lamps are turned off. However, in some cases, such as when metal halide lamps are used, it is possible that the general lighting will not be available for several minutes after the blackout (or brownout) period. Battery units with the D3 option will keep some energy in store to ensure that the emergency lighting stays on or comes back on for at least 15 minutes once the regular AC power has been restored.
TP	Tamper-proof screws	Screws that require a special bit. Can be used on certain units to deny access to unauthorized personnel.



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Battery units

Table of contents

Battery units

 Introduction 96	 ERAU Series 98	 EBL Series 100	 Provider™ Series 101	 Lux-Ray™ LED Series 102	 Retract-a-Lite™ Series 104
 Mini Retract-a-Lite™ Series 106	 Premier™ Series 108	 MPRE Series 110	 DEL Series 112	 ESLT Series 114	 CMPB-E Series 116
 ECB-HO Series 117	 JMLC-BLD Series 118	 CM-SB Series 119	 JMLC Series 120	 JMC Series 122	 JMLA Series 124
 ESL Series 126	 ESL HP Series 128	 Distinction™ Series 130	 Survive-All™ NXM Series 132	 EHP Series 134	 EHZ Series 136
	 ESLNX Series 138	 HZM Series 140	 IPE-LEDN Series 142	 Glossary 143	

 = New product

Battery units overview

Emergency lighting, as part of life safety equipment, is one of the key elements to ensure public safety within buildings.

In the event of failure of the normal power supply, self-powered units automatically provide the illumination required to evacuate the building in safe conditions.

Standards and codes

Requirements for the installation, level, and duration of emergency lighting in buildings are established by national standards: The National Building Code of Canada (NBCC-2015), the Canadian Electrical Code (CEC), and the National Fire Code of Canada (NFCC- 2015). Concerning the equipment, performance is established by the Canadian Standards Association (CSA), for example, C22.2 No.141- 15, C860, etc. Emergency lighting equipment is divided into two main categories: self-powered emergency lighting equipment, also referred to as “unit equipment for emergency lighting”, and central emergency power systems (separate emergency electrical power supply).

Self-contained (or self-powered) equipment

The most common self-powered unit consists of a 6V lead battery and two lamp heads, also referred to as emergency lights, each with a 4W LED lamp. Lamps are normally off; the storage battery has sufficient capacity to actuate and maintain the emergency lighting for at least 30 minutes in the event of a power failure. In some applications described in the National Building Code of Canada, the minimum emergency lighting period can reach 60 minutes or even 120 minutes. This will require battery units of greater capacity. Once normal AC power supply is restored, heads will turn off, the fixture recharges the batteries to full capacity within 24 hours, then returns to the standby mode.

Battery units and remote heads

There are also battery-powered units that will supply power to several remote emergency lights of different wattages (12W, 20W, 50W, etc.). In this case, remote emergency lights (also referred to as remote heads) are installed in rooms and corridors, connected by wiring installed inside the walls. Some 6V self-contained fixtures can assume a total emergency lighting load up to 150W – 180W. At this level, the battery current (25A – 30A) begins to generate significant losses in the external wiring. For this reason, there are

battery units of higher voltages, 12V and 24V, which can respectively supply power to remote heads totaling up to 360W and 720W.

Central systems

A higher wattage capacity emergency system is a Central System. In the event of a utility power failure, Central Systems continue to supply power to the emergency lighting equipment as well as other critical loads. A Central System that supplies power during a utility power failure is an emergency power system, the Alternating Current Central System (AC inverter). The electric power supplied by this system can vary from a few KVAs to 54 KVAs.

Industrial environment

The industrial environment is the most severe in terms of housing construction requirements. It is defined by several parameters specific to various technical processes within the industry: temperature range, degree of humidity, degree of protection against water and dust, resistance to corrosive chemicals, presence of flammable gases and vapors or combustible particles, etc. An important performance factor is the degree of protection against solid particles (dust, etc.) and liquids. This rating is generally defined and measured as established by the American standard NEMA 250-2003 from the National Electrical Manufacturers Association, or, alternately, the European IP (ingress protection) code of the International Electrotechnical Commission (IEC 60529 standard). To accomplish the required degree of protection and resistance to corrosive agents, emergency lighting fixtures are designed/fabricated with gasketed, rugged, polycarbonate or fiberglass housings. A special category exists covering hazardous areas, defined by technological processes generating (or susceptible to generate) flammable gases, vapors, flammable liquids or combustible dust particles in explosive concentrations in the atmosphere. For more details on definitions and classifications of hazardous areas, consult the Canadian Electrical Code (CSA C22. 1-15).

Considering the risks of explosion or fire, all equipment dedicated to hazardous areas must meet, special standards such as CSA C22.2 No. 30-M1986, No. 137-M1981, No. 213-M1987, etc. Based on each respective classification (Class, Division, Group, Zones), enclosures and remote heads for hazardous areas are fabricated of materials which

must meet stringent requirements (pure forged aluminum, fiberglass, etc.) and may require specific components, such as seals, valves, gasketing, etc in addition to standards specific to emergency lighting. In view of all these additional specific characteristics, it can be expected that emergency lighting equipment approved for hazardous areas will cost more than fixtures classified for general industrial applications.

Considering the risks of explosion or fire, all equipment dedicated to hazardous areas must meet, in addition to standards specific to emergency lighting, special standards such as, CSA C22.2 No. 30-M1986, No. 137-M1981, No. 213-M1987, etc. Based on each respective classification (Class, Division, Group), enclosures and remote heads for hazardous areas are fabricated with materials that must meet stringent requirements (pure forged aluminum, fiberglass, etc.) and may require specific components, such as seals, valves, gasketing, etc.

Emergency lighting enclosures

Construction requirements for emergency lighting fixtures depends on the location where the equipment can be installed. Of all the components, the enclosure (box or housing) is probably the most affected by the type of environment where it is located.

The enclosure plays many roles: it provides the fixture with a degree of protection against the environmental conditions, while meeting technical, aesthetic and functional requirements. Of course, cost can also be a deciding factor when selecting a fixture.

In general, non-residential lighting is divided in three market segments: commercial, institutional and industrial. This market segmentation still applies in the case of emergency lighting. Typically, the commercial and institutional sectors are more sensitive to aesthetics, whereas the industrial sector is more influenced by the technical aspects (fixture durability, etc.).

Commercial and institutional environments

Commercial spaces (stores, restaurants, theatres, hotels, etc.) as well as institutions are generally air conditioned, so the equipment operates in normal temperature and humid conditions. The most common design for self-contained units uses sheet metal housings of a neutral colour: white or whist. For the most part, exit signs are housed in a rectangular box fabricated of steel (sheet metal) die- cast or extruded aluminum, and illuminated from a LED light source contained within the assembly (back-lit). Some molded plastic housings also exist (less expensive material, but also less rigid than metal) – mostly used for small battery units (lower wattages) and EXIT signs in some

applications. Even if aesthetics is a secondary criterion, we continue to develop products which offer a more contemporary look.

Aesthetics and architecture

Aesthetics and architecture are often the most important criteria on the decision process. Some hotel chains, high-end stores and corporate headquarters are excellent examples.

In these situations, the architect and the lighting designer have a great influence in specifying emergency lighting fixtures. The question becomes – what will the architect prefer, a more decorative, unique look or a more unobtrusive, discreet one? Battery units are becoming increasingly discreet. The specifier can opt for a higher capacity unit (e.g.: 24V, 720W or a central System) installed in a hidden location, to supply power to remote heads distributed throughout the building. Another option would be to install recessed self-contained units concealed in the ceiling (T-bar), each with two lamp heads and additional capacity for remote heads. There are also single-lamp battery units that can be recessed in the ceiling. As for remote heads, they are generally fabricated of forged aluminum and contain MR16 LED lamps. It is also possible to conceal the battery units as well as the lamp heads entirely.

To address specifiers' needs for aesthetics, we have developed new products for high end emergency lighting: dual-function decorative luminaires providing both normal lighting and emergency lighting. The lamps are powered by one of the two independent electrical circuits: AC circuit for normal lighting (including the wall switch), and an uninterrupted AC circuit for the battery charger and control of the emergency lighting. Since normal lighting levels are higher than those required for emergency lighting, we also offer the same type of luminaire for normal lighting only. This option provides the end user with the possibility of alternating self-contained units with standard lighting fixtures, while maintaining consistency of design.

The mini-inverter acts like a central system but with less installation concerns and lower initial investment. Existing fixtures can function as emergency lighting with a Mini-Inverter. As an alternative to separate lighting fixtures, normally on light fixtures can be connected to the Mini-Inverter so they will function in an emergency. For specifiers who wish to preserve a design aesthetic in high-visibility areas, this option is extremely beneficial.

New product

ERAU Series

Recessed architectural battery unit



Features

- Recessed installation in T-bar suspended ceiling and easily spring mounted in Gyproc ceiling
- All-metal backbox enclosure
- Thermoplastic rectangular fixture with additional round trim-plate, white finish
- Long-life, high-temperature rated lithium battery
- Infrared remote test control (up to 30ft)
- Two-wire universal AC input: 120 – 347VAC 50-60Hz
- 90 minutes of emergency lighting
- Fixed optics, optimized light distribution for ceiling heights of eight to 12 ft
- Four high-intensity LED sources with redundant connections; CCT 5000K
- Listed NSF, splash non-food zones
- Certified cUL to CSA 22.2 No.141-15
- Optional housing for plenum or insulated ceilings (IC)
- Black thermoplastic decorative trim-plates
- Power over ethernet supply (requires a dedicated PoE switch powered by unswitched AC line) available
- Nexus®Pro: IOT emergency lighting monitoring system optional
- Fixed, square distribution pattern up to 12-ft ceilings
- Self-test and diagnostic functions
- 1-year limited warranty
- **Warranty details at: www.emergi-lite.ca**



Remote test control



Suggested specifications

Supply and install the **ERAU Series** of recessed emergency lighting unit from **Emergi-Lite®**. The unit construction shall include an all-metal housing and a thermoplastic rectangular trim-plate with a detachable circular trim ring for choice of aesthetics. The optics shall be an impact-resistant polycarbonate lens with fixed light distribution, optimized for ceilings of 8 to 12-ft height. The housing shall include an isolated compartment for electrical connections and a detachable cover with knockouts for electrical supplies. The unit shall include a hardware kit for installation in T-bar suspended ceilings.

The emergency lights shall be four high-intensity LED with operational life of minimum 36,000 hours, until 70% of the initial light level (reported L70). The LEDs shall have redundant interconnections: eventual failure of one of them shall allow others to function. The unit shall have a two-wire universal input rated 120-347VAC, 50/60Hz and shall be equipped with a lithium battery. The charger circuit shall provide: AC lock-out, brownout transfer, and battery disconnect at the end of discharge. The charger shall be micro-controller-based and include self-test and diagnostic functions; the unit shall self-test for one minute every month, 30 minutes every six months and 90 minutes annually. The pilot light shall be a bi-color LED, installed behind the main optics and shall change color from normal green to flashing red when a failure is detected from the battery, charger circuit or lamps. A label located on the equipment housing shall describe the diagnostic for each flashing code. The unit shall be supplied with an infrared remote test control to start a manual test of one-minute duration or cancel it if needed.

The unit shall be cUL certified to CSA 22.2 No.141-15

The unit shall be **Emergi-Lite®** model: _____.

Power consumption and unit rating

AC	Input (VAC)	Maximum		Stand-by power (W)
		Current (A)	Power (W) Power factor	
	120	0.03	0.6	
	277	0.02	2.8	0.5
	347	0.02	0.45	
POE	DC supply (V)		Maximum	
			Current (A)	Power (W)
	44-57		0.08	3

Housing colour



Black

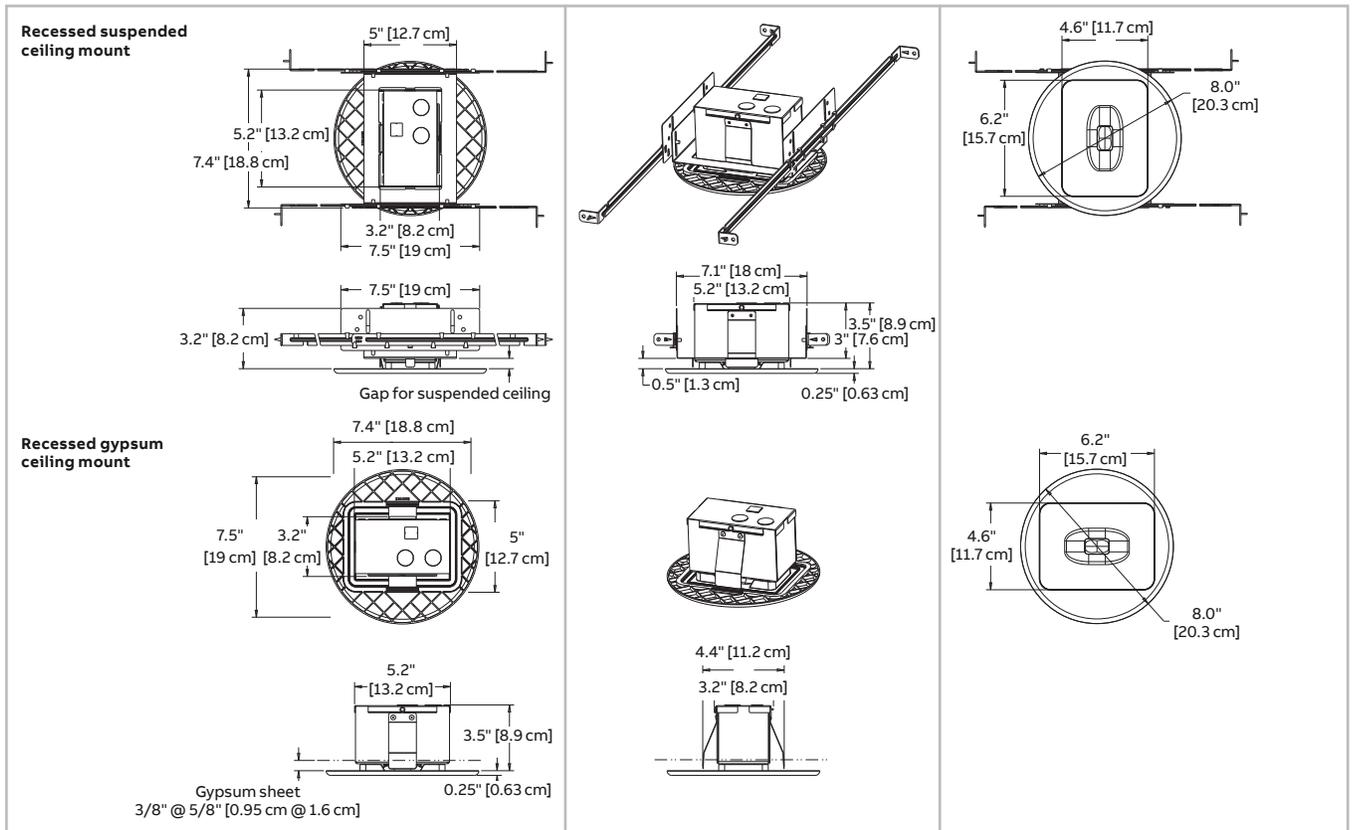


Factory white

EMERGI-LITE

Dimensions

Dimensions are approximate and subject to change.



Photometry performance

The **ERAU Series** has a fixed lighting distribution, optimized by design for ceiling heights up to 12 ft. The **ERAU Series** delivers a stable and optimal illumination easy to specify. Along an office corridor the space coverage ranges from 68 to 80 feet. The square distribution pattern covers a surface of more than 700 square feet.

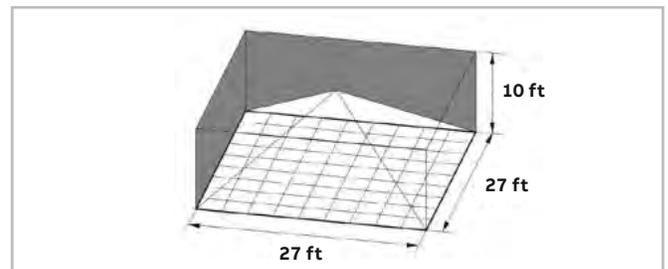
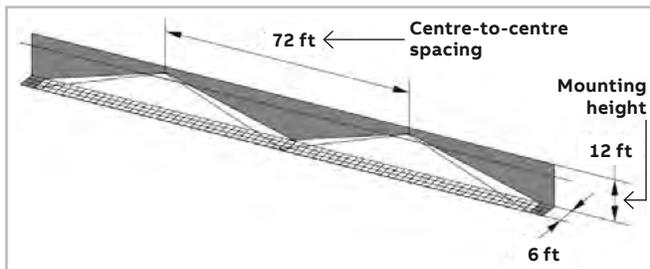
Table A: Standard unit 6-ft wide corridor¹

Mounting height	Spacing centre-to-centre
9 ft	68 ft
10 ft	80 ft
12 ft	72 ft

Table B: Option "square distribution pattern" – single unit coverage¹

Mounting height	Room size	Room surface
10 ft	27 ft x 27 ft	729 square feet

¹Typical reflectance levels of walls/ceiling/floor: 80/50/20



Ordering information

Series	Colour	Voltage	Unit type	Options
ERAU= recessed architectural battery unit	BK= black WH= factory white	Blank= 120 to 347VAC, 50/60Hz POE= power over ethernet	Blank= standard NEXP= IOT Nexus [®] Pro UN= advanced diagnostics, non-audible	Blank= no options D3= 15 minute time delay P= plenum/type IC rated SQ= square distribution pattern

Example: ERAUWHPOE

New product

EBL Series

Vandal resistant self-powered linear battery unit



Features

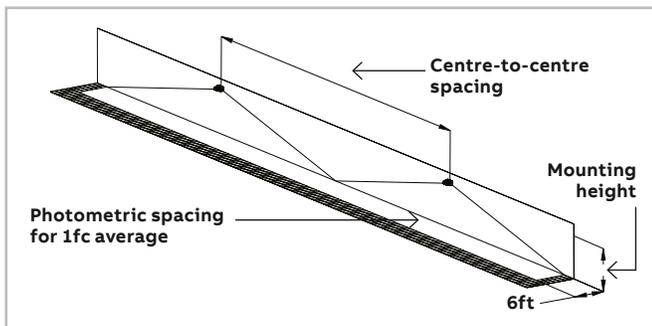
- High impact thermoplastic housing
- Meets IK10 impact rating requirements¹
- Standard surface ceiling and wall mount
- Optional accessory: semi-recessed ceiling mount
- Easily adjustable LED strips for multiple beam angles
- 1200-1300 lumen output
- Dual-mode: normal lighting (field selectable) and emergency lighting
- Self-test and self-diagnostic
- Lithium ion phosphate battery offering 120 minutes of emergency lighting
- Battery over/under charge protection
- Universal voltage 120V through 347V 60Hz
- Rated for 5°C to 45°C
- Suitable for wet locations
- Meets IP65 rating
- ROHS compliant
- cUL approved to CSA C22.2 No, 141-15
- **Warranty details at: www.emergi-lite.ca**

¹IK ratings refer to impact tests. IK10= Protected against 20 joules of impact (equivalent to 5KG of mass dropped from 40cm high)



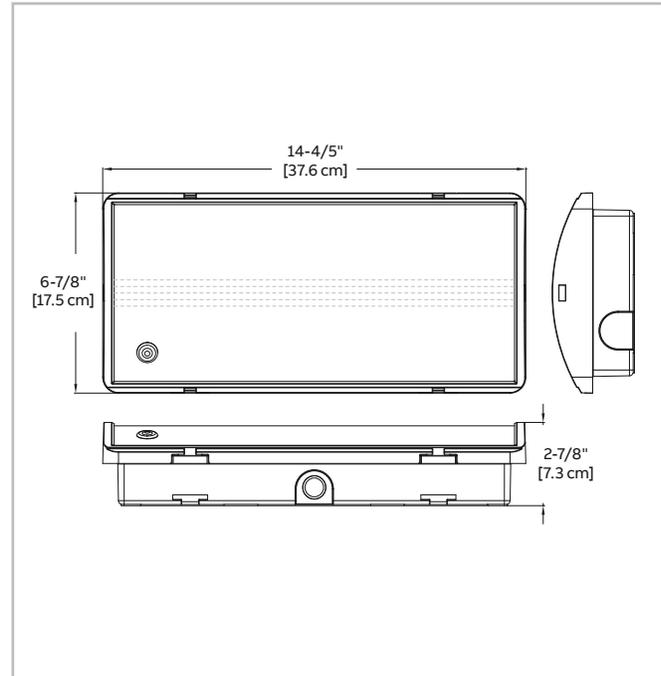
Spacing

Mounting type	Spacing at 9ft mounting	Lumens
Ceiling mount	62'	1300
Wall mount	53'	1200



Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Status	Voltage	Wattage
Normal lighting	120-347 volt	16 watts
Emergency lighting		14 watts

Accessories (order as a separate item)

Description	Ordering code
Semi recessed mounting bracket	KIT-SR-E

Ordering information

Series	
EBL= linear battery unit	EM= dual-mode: normal lighting and/or emergency lighting

Example: EBL-EM

Provider™ Series

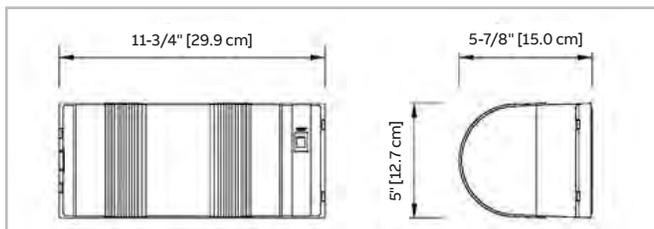


Features

- Injection-molded, impact-, scratch- and corrosion-resistant thermoplastic with a snap-together design
- Compact and versatile – unit measures only 11.75" x 5" and can be wall or ceiling mounted
- LED lamps with life expectancy of 50,000+ hours
- Maintenance-free, long-life sealed lead-calcium battery
- Fast and easy installation - AC quick connect plug, battery knockout feature.
- Fully automatic, solid-state charger with low voltage battery disconnect, brownout protection, integral test switch and long-life LED AC-On pilot lights
- Charger is temperature compensated and reverse polarity protected
- NEXUS® compatible (For more information, please consult your sales representative)
- Optional ceiling mount includes safety wire pre-machined housing to receive a securement screw
- Meets or exceeds CSA 22.2 No.141-15
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

The contractor will install the **Emergi-Lite® Provider™ Series** battery unit. The emergency lighting system shall consist of fully automatic equipment with two (2) emergency lighting heads. The emergency lighting heads shall require no tools for adjusting or aiming. Each unit shall contain a fully automatic, solid-state charger with test switch and AC-on pilot lights. The unit shall contain a sealed transfer circuit and low-voltage disconnect circuit. The unit equipped with self-testing/self-diagnostic or Nexus® features shall automatically self-test for one minute every 30 days, 10 minutes in the 6th month and 30 minutes annually. When a fault is detected, the bi-colour pilot light shall turn from green to red and shall flash, identifying the source of the failure: battery, charger circuitry, lamp load.

The battery shall meet 6V with a capacity of 20 or 36W for 30 minutes. The unit shall be CSA C22.2 no 141-15.

The unit shall be **Emergi-Lite®** model: CPRO _____

Wire guards

Ordering code	Description
460.0080-E	Wall mount

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 – LED	6V-4W
580.0122-E	MR16 – LED	6V-5W

Power consumption and unit rating

Model	AC specs	30 min	Wattage capacity				
			1H00	1H30	2H00	4H00	
CPRO-1N	120/347	0.07/0.03 A	20	15	12	8	–
CPRO-2N	VAC	0.08/0.03 A	36	21	15	12	6

Housing colour



Ordering information

Series	Colour	Input voltage	Unit type	Options	Lamp type
CPRO-1N= 6V, 20W	B= black	2= 120/277VAC	Blank= standard	Blank= no options	/LA= MR16
CPRO-2N= 6V, 36W	Blank= factory white	Blank= 120/347VAC	-NEX= NEXUS® system interface ¹	CM= ceiling mount	LED,
			-NEXRF= wireless NEXUS® system interface ¹	L= 120VAC c/w line cord	6V-4W
			-U= auto-diagnostics	VM= voltmeter ¹	/LB= MR16
			-UN= auto-diagnostics, non-audible	VR= vandal resistant screws	LED,
					6V-5W

Example: CPRO-1N-NEXRFVR/LA

¹Available with CPRO-1N only
Not all options available with NEXUS® system.
Please consult your sales representative

Lux-Ray™ LED Series

Rugged, versatile, sophisticated



Features

- Die-cast aluminum housing, available in four finishes: dark bronze, off-white, black, and platinum gray
- NEMA-3R Rated for indoor/outdoor wet and damp locations: -20°C to 50°C SD model
- Wall-mount installation on various junction boxes or via rigid conduit
- Patent-pending design for easy installation: wall-mount backplate includes electrical wire box with snap-on connector
- Patent-pending light engine: four power LEDs with redundant inter-connections and very wide beam
- Clear polycarbonate lens of reduced size (3" x 1.5"), shock-absorbent and UV-resistant
- Battery: high-temperature rated, nickel-metal hydride technology
- Power consumption in stand-by: less than 5W
- Self-test and diagnostic functions operated by micro-controller
- Certified to CSA 22.2 No.141-10 and No.250.0-08 standards
- 90 minutes run time
- **Warranty details at: www.emergi-lite.ca**

Options

- Cold weather: (-40°C... 30°C)
- Forward-throw light distribution, for applications of outdoor exit discharge (OSHA 1910.36)
- High-lumen output: 25 to 50% additional level of illumination compared to standard models
- Dual-mode operation: normal lighting and/or emergency lighting with separate AC inputs
- Photo-switch: dusk-to-dawn control of normal lighting
- Remote test: infrared remote control (keyboard ordered separately)
- Time delay: 15 minutes



In the same family



Luxray™ LED Remote Fixture

Housing colour



Black



Dark bronze
(painted)



Off white



Platinum grey

Typical specifications

Supply and install the **Lux-Ray™ Series** of LED emergency lighting from **Emergi-Lite®**. The unit body shall include a back-plate and housing made of die-cast aluminum with paint finish color: _____ and a UV and impact-resistant polycarbonate lens of reduced size: 3-in by 1.5-in. The back-plate shall have knockouts for wires and wall-mount installation box as well as a threaded hole for rigid conduit entry at the top of the unit. The back-plate shall have a built-in electrical box with wire terminals and snap-on connector. After complete electrical installation of the back-plate the equipment housing shall be installed by a simple push & snap over the back-plate.

The emergency lights shall be 4 (four) power light-emitting diodes (LED) with operational life of minimum 36,000 hours, maintaining at least 70% of the initial light level (reported L70). The LED lamps shall have redundant interconnections: eventual failure of one lamp shall allow other LED lamps to function. The unit shall have a dual-voltage input rated 120/347VAC, 60Hz. The battery charger shall include low voltage disconnect to prevent deep discharge, battery lockout to prevent battery drain prior to energizing the utility power, and brownout protection which will automatically switch the unit into emergency mode if the utility power falls below 80% of nominal level. The unit with nickel-metal hydride battery shall be equipped with a micro-controller-based non-audible auto-test circuit and provide minimum 90 minutes of emergency lighting. The unit shall self-test for one minute every month, 30 minutes every six months and 90 minutes annually.

The pilot light shall be integrated with the test button; it shall be a bi-color LED and shall change color from normal green to flashing red when a failure is detected from the battery, charger circuit or lamps. A label located near the pilot light shall describe the diagnostic for each flashing code. When specified, models with dual-mode illumination shall include two separate AC input circuits: un-switched for emergency lighting and switched for normal lighting. When specified, models equipped with photo-switch shall automatically activate the normal lighting only from dusk till dawn, for additional energy savings. The typical ambient illumination for the photo-switch shall be 10 lux (to turn-on) and 30 lux (to turn-off).

When specified, the unit shall be controlled by an **infrared remote control** keypad (part#: TB-RC1-E ordered separately). The remote control shall be able to simulate a power failure of 1 minute, 30 minutes or 90 minutes and also to cancel the test in progress at any time. For units with dual-mode lighting the remote keypad shall also control the normal lighting with on/off switch and dimming functions. The unit shall be certified to CSA 22.2 No.141-10 for minimum 90 minutes and No.250.0-08 standards.



The equipment shall be **Emergi-Lite®** model: _____.

Lux-Ray™ LED Series

Rugged, versatile, sophisticated

Dimensions

Dimensions are approximate and subject to change.

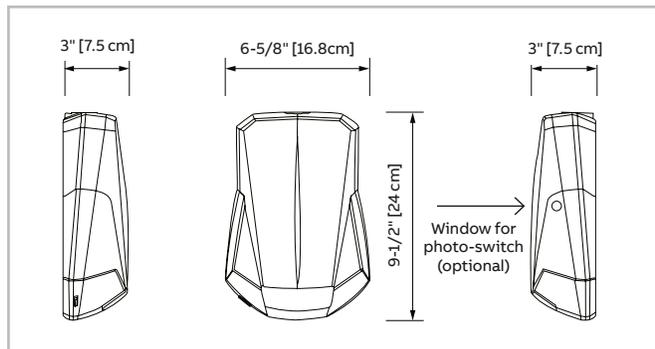


Table A: Spacing for average 1fc/ National Building Code, Canada

Model	Mounting height	Wattage capacity	
		Single	Centre-to-centre
Standard	9'	6' X 50'	6' X 50'
With option -H	11'	6' X 60'	6' X 60'
With option -FT	12'	6' X 40'	–
With option -FTH	15'	6' X 50'	–

Indoor reflectance: 80/50/20 and 10-ft wide corridor.
Outdoor reflectance: 0/30/10

Note: The illumination level meets ALL the requirements of the National Building Code-Canada and the Life Safety Code (NFPA 101):

- 1) Average of 1 foot-candle or more
- 2) Minimum at any point of 0.1 foot-candle or more
- 3) Maximum-to-minimum illumination uniformity ratio of 40:1 or less

Table B: Spacing for minimum 1fc max./
Min. uniformity ratio less than 3:1

Model	Mounting height	Wattage capacity	
		Single	Centre-to-centre
Standard	9'	4' X 28'	4' X 32'
With option -H	11'	4' X 32'	4' X 40'
With option -FT	12'	4' X 22'	–
With option -FTH	15'	4' X 27'	–

Ordering information

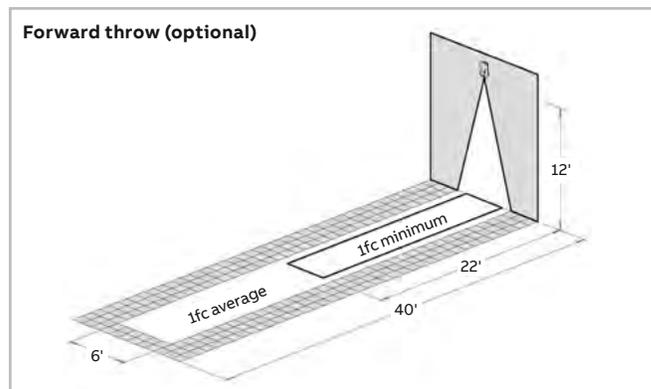
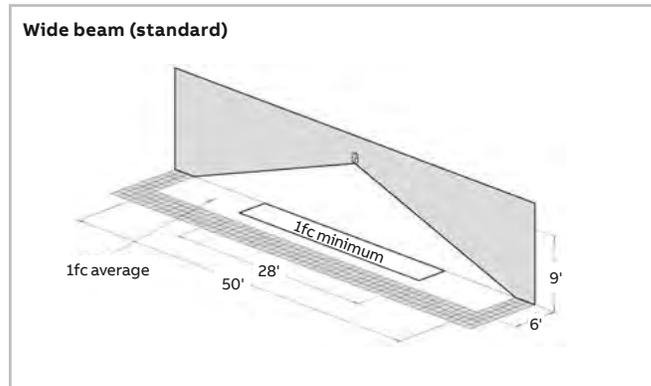
Series	Function: Battery units	Colour	Options
LUX= Lux-Ray™ LED	ACSD= dual-mode AC/self-powered & diagnostic (0... 40°C) SD= self-powered & diagnostic (0... 50°C)	BK= black BZ= dark bronze OW= off white PG= platinum grey	-2 = 277VAC 60Hz input -CW= cold weather (-40°C... 30°C; not available with option -H) -D3 = time delay (15 minutes) -FT= forward throw lighting -H= high lumen output (max. 30°C; model SD only) -P= photo-switch (model ACSD only) -RC= remote control - infrared ¹

Example: LUXACSDBZ-P

Power consumption

Model	AC specs: 120/347VAC 6-12VDC remote				
	Normal lighting		Emergency lighting		Power (max)
	Current (max)	Power (max)	Current (max)	Power (max)	
ACSD, SD, SD-H	0.12/0.05 A	12W	0.05/0.02 A	5W	NiMH battery
SD-CW	–	–	0.16/0.06 A	16W	
ACSD-CWP, -CW-RC	N/R ¹	–	0.24/0.10 A	24W	

¹Note: Only unswitched AC input; normal lighting with photo-switch or remote control



Retract-a-Lite™ Series

100% recessed emergency lighting



Features

- Door flips 180° when AC fails
- Fully automatic operation – brown-out sensitive transfer circuit automatically goes to emergency lighting mode and, when the power is restored or at the end of battery discharge, the motor turns the door back to its original closed mode (time delay option required).
- Customized finish – unit sold in white but can be painted or wallpapered on site to match existing décor
- Heavy-duty back-box – made of heavy-duty, galvanized steel
- High-performance lighting– includes two LED lamps; power range from 2x4W up to 2x6W
- Patent-pending design
- Meets or exceeds CSA 22.2 No.141
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-Lite® Retract-a-Lite™ Series**. The unit shall be designed to be concealed in walls or ceilings with a cavity, including T-bar suspended ceilings. Bar hanger brackets shall be provided with the self-powered unit. The unit equipment shall come standard with a metal back box containing the batteries, the lamp assembly and a charging circuitry. The back box shall be constructed of heavy-duty galvanized steel. The unit components: battery assembly, charger circuitry and lamp assembly shall have a modular design and come standard with quick-connect plugs for easy installation in the back box. The unit equipment shall be completely concealed in the wall or ceiling during normal power conditions. Upon a power failure the unit will expose the emergency heads by rotating its door 180° and then power the lamps. At the restoration of the AC power or at the end of the battery discharge, the lamps will turn off and the unit will retract the heads in the wall (ceiling) by rotating the door by 180°. Under normal conditions, the only visible parts of the unit shall be the flat door and trim plate, coated with a high-quality off-white finish that can be customized on site with paint or other suitable wall covering. The light source shall be 12V LED lamps of specified wattage and light output. The unit shall supply the rated load for a minimum of 30 minutes or until the battery is discharged to 87-1/2% of its nominal voltage (whichever duration is longer). The charger circuitry shall utilize a micro-controller IC that samples the battery in relation to the ambient temperature, state of charge, and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof, and reverse-polarity protected. The circuit will charge in accordance with CSA C22.2 – 141 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light. When specified, the unit shall come complete with **Emergi-Lite®** auto-test micro-controller circuitry to ensure the equipment readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, the pilot light located on the front of the unit will change color from green to red and will flash indicating a fault. A detailed diagnostic legend shall be available on the door back side and shall provide fault identification (battery, charger circuitry, lamps) for maintenance personnel. The auto-test shall simulate a power loss for one minute monthly, 10 minutes every 6 months, and a full 30-minute test every 12 months.

The equipment shall be **Emergi-Lite®** model: _____.

Replacement lamps: MR16 type

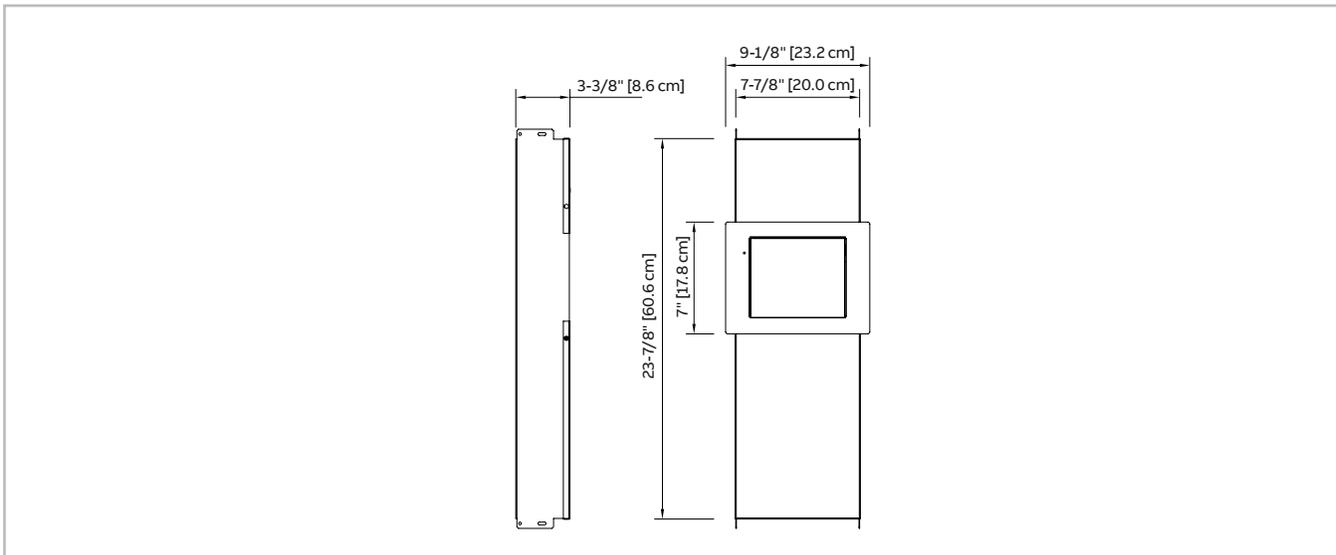
Model	Lamp type	Voltage/wattage
580.0093-E	MR16 LED	12V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Retract-a-Lite™ Series

100% recessed emergency lighting

Dimensions

Dimensions are approximate and subject to change.



Power consumption

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
RTL75	120/347 VAC	75	40	30	24	15
RTL150	0.25/0.09 A	150	80	60	48	30

Ordering information

Series	Powerpack	Voltage	Number of heads	Options
RTL	75= 12V-75W lead-acid 150= 12V-150W lead-acid	-2= 120/277VAC Blank= 120/347VAC	LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W	D3= time delay (15 minutes) U= auto-diagnostics ¹ UN= auto-diagnostics, non-audible ¹

Example: RTL150LGU

¹Minimum lamp load required:
20% of unit capacity

Mini Retract-a-Lite™ Series

The next generation unseen solution



Features

- Easy to retrofit in finished walls: the unit slides in through an 8.25" by 5.75" hole
- No back-box needed to pre-install
- Input: standard AC input 120/347VAC; optional 120/277VAC
- Output: 12VDC with up to 100W of power
- Battery: choice of sealed, maintenance-free lead-calcium or nickel-metal hydride
- Remote capacity: can drive several wall or ceiling-mount 12VDC remote Retract-a-Lite™ fixtures
- Charger: micro-controller driven, temperature compensated, high precision, fast recharge
- Remote AC fixture: direct connection to 120 or 347VAC power generators
- MR16 LED lamps 4W, 5W and 6W
- Certification: CSA C22.2 No.141
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-Lite® Mini Retract-a-Lite™ Series**. The unit shall be designed to be completely concealed in walls with a cavity. The equipment shall consist of a metal housing containing two modules joined by a flexible bracket and electric conduit. One module contains the battery, charger circuitry and electrical connection box; the other module contains the emergency lights installed on the back of a door able to rotate several turns of 360°. The unit equipment shall be completely concealed in the wall after installation through a rectangular opening not larger than 8.25" by 5.75". In stand-by mode, the only visible parts of the unit shall be the flat door and trim plate, coated with a high-quality off-white finish that can be customized on site with paint or other suitable wall covering. Upon a power failure the unit will expose the emergency heads by rotating its door 180° and then will power the lamps. At the restoration of the AC power or at the end of the battery discharge, the lamps will turn off and the unit will retract the heads by rotating the door 180° in the same direction. The unit shall not require the presence of AC power in order to close the door and conceal the lights. The door of the unit shall be easy to force-turn (open or close) by hand, in any rotation direction. The light source shall be 12V MR16 LED lamps of specified technology, wattage and light output. The unit shall supply the rated load for a minimum of 30 minutes or until the battery is discharged to 87.5% of its nominal voltage (whichever duration is longer). The charger circuitry shall utilize a micro-controller IC that samples the battery in relation to the ambient temperature, state of charge, and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof, and reverse-polarity protected. The circuit will charge in accordance with CSA C22.2 – 141 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light. When specified, the unit shall come complete with the **Emergi-Lite®** series of auto-test micro-controller circuitry to ensure the equipment readiness and reliability by continuously monitoring every critical function of the unit. If a component failure occurs, the pilot light located on the front of the unit will change colour from green to red and will flash indicating a fault. A detailed diagnostic legend shall be available on the back side of the door and shall provide fault identification (battery, charger circuitry, lamps) for maintenance personnel. The auto-test shall simulate a power loss for one minute monthly, 10 minutes every 6 months, and a full 30-minute test every 12 months.

The equipment shall be **Emergi-Lite®** model: _____ .

Replacement lamps: MR16 type

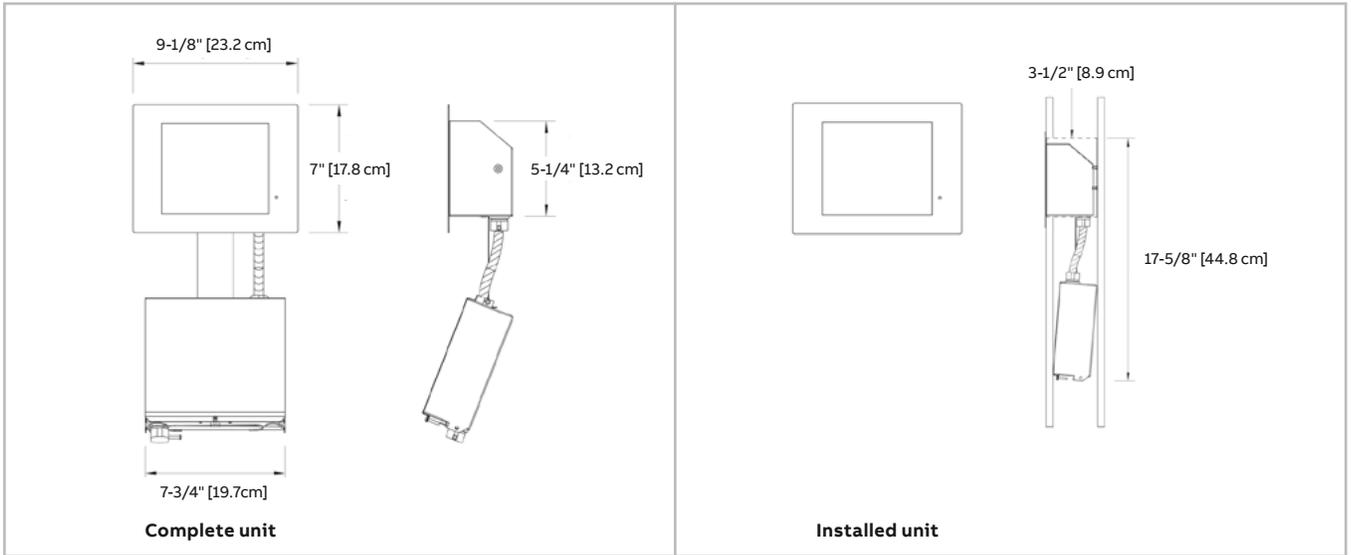
Model	Lamp type	Voltage/wattage
580.0093-E	MR16 LED	12V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Mini Retract-a-Lite™ Series

The next generation unseen solution

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity			
		30 min	1H00	2H00	3H00
MRL80	120/347 VAC	80	40	24	–
MRH100	0.25/0.09 A	100	70	36	24

Ordering information

Series	Powerpack	Voltage	Number of heads	Options
MR	L80= lead-calcium, 12V-80W H100= nickel-metal hydride, 12V-100W	-2= 120/277VAC Blank= 120/347VAC	LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W	D3= time delay (15 minutes) U= auto-diagnostics ¹ UN= auto-diagnostics, non-audible ¹

Example: MRL80/LJ

¹Minimum lamp load required:
20% of unit capacity

Premier™ Series

Thermoplastic, 6 and 12V



Features

- Designed with aesthetics, ease of installation and performance in mind
- Simple, compact and contemporary design
- Wall-mount, ceiling-mount flat or pendant installation
- Two-piece housing of injection-molded thermoplastic
- Two MR16 halogen lamps, shielded by clear polycarbonate covers
- Available with long lasting MR16 LED lamps
- Sealed, maintenance-free, lead-calcium battery
- Dual voltage input: 120/347VAC.
- Up to 150W of total battery capacity
- Auto-diagnostics (optional)
- NEXUS® interface (optional)
- Certified CSA 22.2 No.141
- **Warranty details at: www.emergi-lite.ca**



Premier™ family



Premier™ Combo Series

Premier™ Exit Series

Housing colour



Black



Factory white

Typical specifications

Supply and install the **Emergi-Lite® Premier™ Series** battery unit equipment. The unit construction shall include a housing and a front cover of high-impact thermoplastic moulded in white. No screws shall be necessary to hold the front cover to the housing. The unit shall be equipped with two emergency heads with adjustable swivels and MR-16 lamps of _____ V _____ W protected by snap-on shock-absorbent, clear polycarbonate covers. The unit shall be suitable for wall mount or as otherwise specified.

The unit equipment shall have a dual-voltage input of 120/347VAC and shall be equipped with a test switch and a green pilot light, located on the left side. The housing shall host the battery and the battery charger. The battery charger and other unit functions shall be driven by a micro-controller. All electronic circuitry shall be installed on a single printed circuit board.

When specified, the unit equipped with auto-test shall automatically self-test for one minute every 30 days, 10 minutes every 6 months and 30 minutes annually. When a fault is detected, the bi-colour pilot light shall turn from green to red and start flashing. A legend on a label next to the pilot light shall display the source of failure: battery, charger circuitry or lamp load.

The unit equipment shall be listed to the standard CSA 22.2 No.141.

The unit equipment shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0080-E	Wall mount or flat ceiling mount

Flat ceiling mount



Replacement lamps

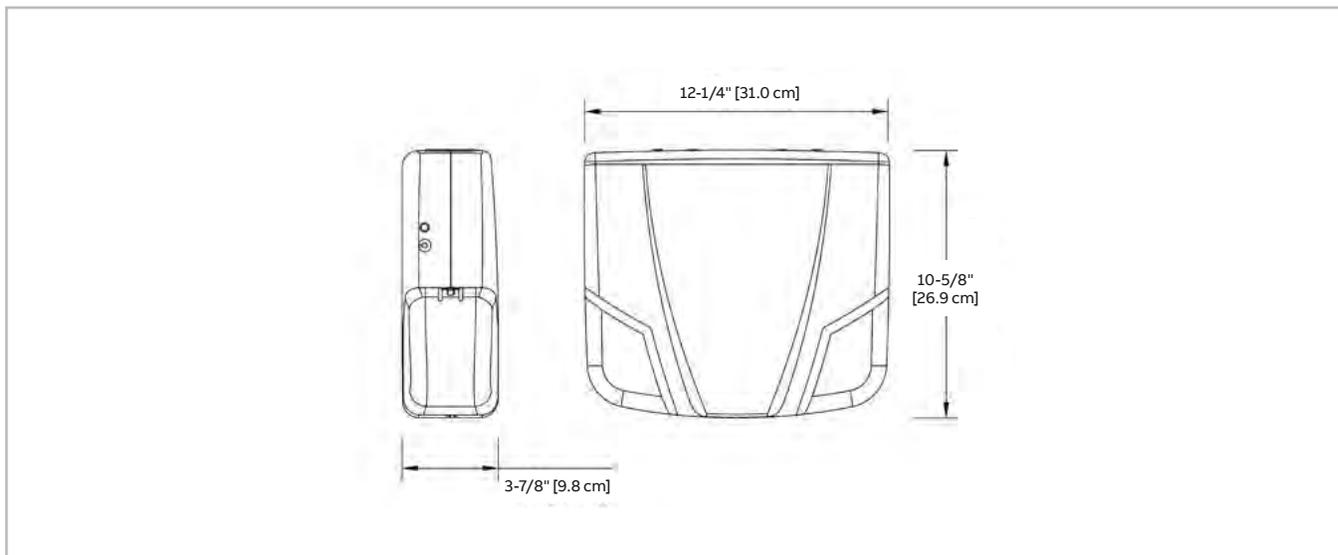
Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Premier™ Series

Thermoplastic, 6 and 12V

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
PRE40		40	23	16	12	–
PRE72		72	42	30	24	12
12PRE80	120/347VAC 0.25 / 0.09 A	80	44	32	26	13
12PRE120		120	70	50	40	20
12PRE150		150	84	60	48	24

Ordering information

Series	Capacity	Colour	Voltage	Unit type	Options	Heads	Lamps
06PRE= 6V	40= 40W	B= black	-2= 120/277VAC	Blank= standard	Blank= no options	/0= no	LA= MR16 LED, 6V-4W
	72= 72W	W= factory white	Blank= 120/347VAC	NEX= NEXUS® system interface ¹	CM= ceiling mount	heads	LB= MR16 LED, 6V-5W
				NEXRF= wireless NEXUS® system interface ¹	D3= time delay (15 minutes)	/2= two heads	LG= MR16 LED, 12V-4W
				U= auto-diagnostics ²	LC= line cord (120V)		LI= MR16 LED, 12V-5W
				UN= auto-diagnostics, non-audible ¹	PM= pendant mount		LJ= MR16 LED, 12V-6W
12PRE= 12V	80= 80W 120= 120W 150= 150W						

¹Not all options available with NEXUS® system. Please consult your sales representative.

²Minimum lamp load required: 20% of unit capacity

Example: 06PRE40W/2MI

MPRE Series

Reduced size thermoplastic, 6 and 12V



Features

- Designed with aesthetics, ease of installation and performance in mind
- Simple, compact and contemporary design
- Wall, optional ceiling or pendant mount (optional)
- Two-piece housing of injection-molded thermoplastic
- Two MR16 LED lamps, shielded by clear polycarbonate covers
- Sealed, maintenance-free, lead-calcium batteries
- Dual voltage input: 120/347VAC.
- Up to 48W of total battery capacity
- Auto-diagnostics (optional)
- NEXUS® interface (optional)
- Advanced diagnostics capabilities (specific load requirements)
- Meets or exceeds CSA 22.2 No.141-15
- **Warranty details at: www.emergi-lite.ca**



Premier™ family



Premier™ Exit Series



Premier™ Combo Series

Housing colour



Black



Factory white

Typical specifications

Supply and install the **Emergi-Lite® MPRE Series** thermoplastic unit equipment. The unit construction shall include a housing and a front cover of high-impact thermoplastic moulded in white. No screws shall be necessary to hold the front cover to the housing. The unit shall be equipped with two emergency heads with adjustable swivels and LED lamps of _____ V _____ W protected by snap-on shock-absorbent, clear polycarbonate covers. The unit shall be suitable for wall mount or as otherwise specified.

The unit equipment shall have a dual-voltage input of 120/347VAC and shall be equipped with a test switch and a green pilot light, located on the left side. The housing shall host the battery and the battery charger. The battery charger and other unit functions shall be driven by a micro-controller. All electronic circuitry shall be installed on a single printed circuit board. When specified, the unit equipped with auto-test shall automatically self-test for one minute every 30 days, 10 minutes every 6 months and 30 minutes annually. When a fault is detected, the bi-colour pilot light shall turn from green to red and start flashing. A legend on a label next to the pilot light shall display the source of failure: battery, charger circuitry or lamp load.

The unit equipment shall be listed to the standard CSA 22.2 No.141-15.

The unit equipment shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0080-E	Wall mount

Wall mount



Replacement lamps

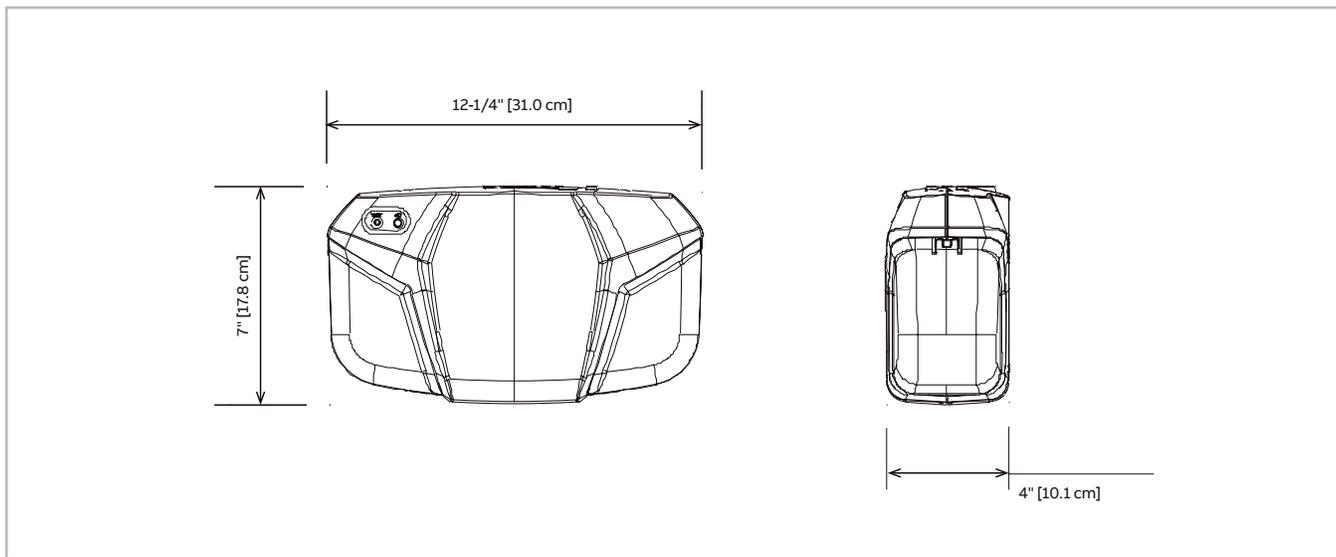
Ordering code	Lamp type	Voltage/wattage
580.0093-E	MR16 LED	12V-4W
580.0097-E	MR16 LED	6V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W
580.0122-E	MR16 LED	6V-5W

MPRE Series

Reduced size thermoplastic, 6 and 12V

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity					
		30 min	1H00	1H30	2H00	4H00	
06MPRE	120/347VAC	.11/.04A	24W	14W	10W	8W	4W
12MPRE		.21/.07A	48W	28W	20W	16W	8W

Ordering information

Series	Capacity	Colour	Voltage	Diagnostic
06MPRE= 6V	24= 24W	B= black W= factory white	2= 120/277VAC 15= 120/208/220-240V 50/60Hz input ¹ Blank= 120/347VAC	Blank= standard NEX= Nexus® system interface ¹ NEXRF= Nexus® wireless system interface ¹ U= auto-diagnostics ² UN= auto-diagnostics non-audible ²
12MPRE= 12V	48= 48W			

¹Not available with Nexus®

¹Not all options are available with the Nexus® system. Please consult your sales representative.

²Minimum lamp load required: 20% of unit capacity.

Options	Heads	Lamps
Blank= no options	/0= no head	LA= MR16 LED, 6V-4W
CM= ceiling mount	/2= two heads	LB= MR16 LED, 6V-5W
D3= time delay (15 minutes)		LG= MR16 LED, 12V-4W
LC= line cord (120V)		LI= MR16 LED, 12V-5W
PM= pendant mount ¹		LJ= MR16 LED, 12V-6W

Example: 06MPRE24WUCM/2LA

¹Pendant kit (sold separately)

DEL Series

Decorative 6, 12 and 24V thermoplastic cube units



Features

- Impact-resistant steel center cabinet contains the battery and charger
- Frosted, thermoplastic light cubes protect light modules against vandalism while providing visual masking and light diffusion
- Units can be wall or ceiling mounted
- Maintenance-free, sealed lead-calcium battery
- Fully automatic, solid-state charger with low voltage battery disconnect, brownout protection, integral test switch and LED AC-On pilot lights
- Also available as a remote fixture; see the Remote Fixtures section of this catalogue
- CSA C22.2 No. 141 certified
- NEXUS® compatible
- **Warranty details at: www.emergi-lite.ca**

nexus®



Made in Canada

In the same family



EF26/EF26DS/EF26D Series

Typical specifications

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The **Emergi-Lite® DEL Smart Diagnostic** micro-controller board shall supply the rated load for a minimum of 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed.

The unit shall have an output of _____ V.

The charger shall be fully computer tested and its charge voltage factory set to $\pm 1\%$ tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, and when the battery is at full capacity, the charger will shut off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency heads when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with a sealed, dust-tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The unit shall come complete with fully adjustable 12V or 24V/12W or 20W quartz halogen lamps. Each lamp shall be housed in an impact-resistant polycarbonate cube. The cube lens shall be frosted to diffuse light.

The unit shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0097-E	Wall or ceiling mount

Replacement lamps

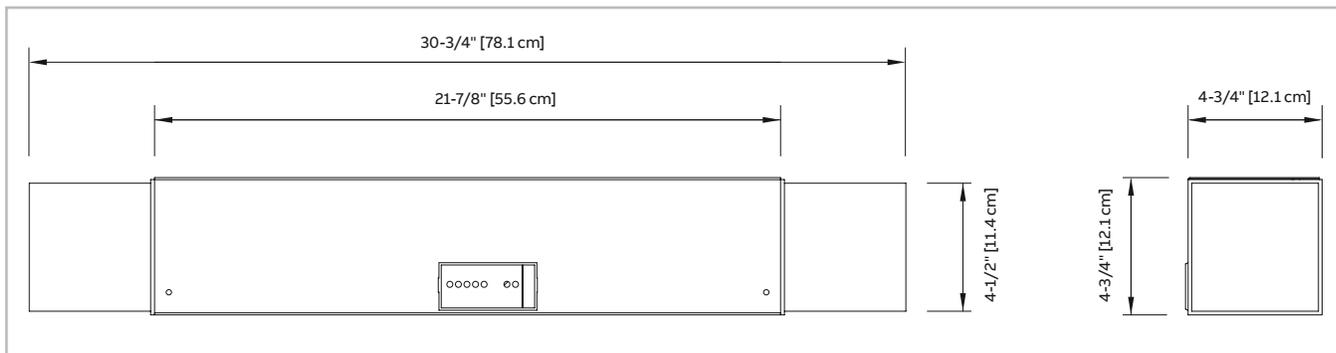
Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16, LED	6V-4W
580.0122-E	MR16, LED	6V-5W
580.0093-E	MR16, LED	12V-4W
580.0098-E	MR16, LED	24V-4W
580.0100-E	MR16, LED	24V-6W
580.0104-E	MR16, LED	12V-5W
580.0106-E	MR16, LED	120V-4W

DEL Series

Decorative 6, 12 and 24V thermoplastic cube units

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06DEL36	0.10/0.04 A	36	21	15	12	6
06DEL72	0.22/0.08 A	72	42	30	24	12
12DEL36	0.10/0.04 A	36	21	15	12	6
12DEL72	0.15/0.06 A	72	42	30	24	12
12DEL144	0.41/0.14 A	144	84	60	48	24
24DEL144	0.55/0.20 A	144	84	60	48	24

Ordering information

Series	Capacity	Voltage	Options	# of lamps	Lamp style/wattage
06DEL= 6V	36= 36W	-2= 277VAC input Blank= 120/347VAC input	CT= cabtire	/2= two lamps	LA= MR16 LED, 6V-4W
	72= 72W		D= time delay		LB= MR16 LED, 6V-5W
	144= 144W		L= line cord (120V) ¹		LG= MR16 LED, 12V-4W
	180= 180W		LW= cord and twist-lock plug (120V) ¹		LI= MR16 LED, 12V-5W
12DEL= 12V	36= 36W	-2= 277VAC input Blank= 120/347VAC input	NEX= NEXUS® system interface ²		LJ= MR16 LED, 12V-6W
	72= 72W		NEXRF= wireless NEXUS® system interface ²		LL= MR16 LED, 24V-4W
	144= 144W		T= lamp disconnect		LM= MR16 LED, 24V-6W
	200= 200W		TB= DC terminal block		
	288= 288W		TBAC= AC terminal block		
			TBACDC= AC/DC terminal block ³		
24DEL= 24V	144= 144W	-2= 277VAC input Blank= 120/347VAC input	TP= tamper-proof screws ⁴		
	288= 288W		U= auto-diagnostics ²		
			UN= auto-diagnostics, non-audible ²		

¹120V is standard

²Minimum lamp load required: 20% of unit capacity.

Not all options available with the NEXUS® system. Please consult your sales representative.

³Only available with maximum 6V, 12V-144W.

⁴990.0119-E= tamper-proof bit (sold separately)

Example: 06DEL36U/2

ESLT Series

6, 12, 24V T-bar unit



Features

Fully recessed units for T-bar mounting in suspended ceilings.

The **ESLT Series** battery units are designed for T-bar ceiling grid installation. This slim-line, unobtrusive unit is ideally suited for any commercial location where there is limited wall space and where the greater directional flexibility of ceiling-mounted heads is needed to provide greater light distribution.

- Rugged steel cabinet with corrosion-resistant undercoating.
- Battery and charger are concealed above the ceiling level in the unit cabinet
- Removable panel provides easy access to battery and circuitry
- Test switch and LED indicators are mounted on the visible bottom panel
- Units mount quickly and easily in standard 2' x 2' or 2' x 4' grids without any additional hardware
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- NEXUS® compatible (for more information on NEXUS®, please consult your sales representative)
- CSA C22.2 No. 141 certified
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The **Emergi-Lite® Smart Diagnostic** Micro controller board shall supply the rated load for a minimum of a 30 minutes to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of _____ V.

The charger shall be fully computer tested and its charge voltage factory set to $\pm 1\%$ tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery and when the battery is at full capacity, the charger will shut off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with a CSA specifications. The unit shall be furnished with a sealed dust tight relay, a test switch and seven diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The unit shall be T-bar mounted and come complete with tool-less emergency lighting heads requiring no tools to adjust or aim.

The unit shall be **Emergi-Lite®** model: _____.

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0104-E	MR16, LED	12V-5W
580.0093-E	MR16, LED	12V-4W
580.0097-E	MR16, LED	6V-4W
580.0122-E	MR16, LED	6V-5W
580.0098-E	MR16, LED	24V-4W
580.0100-E	MR16, LED	24V-6W
580.0106-E	MR16, LED	12V-6W

Housing colour



Black



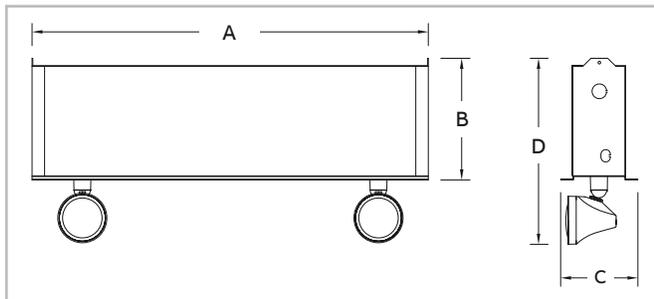
Factory white

ESLT Series

6, 12, 24V T-bar unit

Dimensions

Dimensions are approximate and subject to change.



Cabinet	Dimensions			
	A	B	C	D
Large cabinet	23-3/4" (60.3 cm)	7-1/4" (18.4 cm)	7-1/8" (18.1 cm)	10-5/8" (27.0 cm)
Small cabinet	23-3/4" (60.3 cm)	7-1/4" (18.4 cm)	4-5/8" (11.7 cm)	10-5/8" (27.0 cm)

Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06ESLT36	0.10/0.04 A	36	21	15	12	6
06ESLT72	0.22/0.08 A	72	42	30	24	12
06ESLT108	0.22/0.08 A	108	63	45	36	18
06ESLT180	0.22/0.08 A	180	105	75	60	30
12ESLT36	0.09/0.03 A	36	21	15	12	6
12ESLT72	120/347VAC 0.15/0.06 A	72	42	30	24	12
12ESLT100	0.34/0.12 A	100	58	42	33	17
12ESLT144	0.40/0.14 A	144	84	60	48	24
12ESLT216	0.41/0.14 A	200	117	83	67	33
24ESLT144	0.55/0.20 A	144	84	60	48	24
24ESLT288	0.67/0.23 A	288	168	120	96	48

Ordering information

Series	Capacity	Colour	Voltage	Options	# of heads	Head style/wattage
06ESLT= 6V	36= 36W (S)	Blank= factory white	-2= 277VAC input Blank= 120/347VAC input	A= ammeter	/0= no heads	150LA= deco head, MR16 LED, 6V-4W ¹
	72= 72W (S)			CT= cab-tire	/1= one head	150LB= deco head, MR16 LED, 6V-5W ¹
	108= 108W (S)	BK= black		D= time delay	/2= two heads	150LG= deco head, MR16 LED, 12V-4W ¹
	180= 180W (L)			NEX= NEXUS® system interface ¹	/3= three heads	150LI= deco head, MR16 LED, 12V-5W ¹
12ESLT= 12V	36= 36W (S)			NEXRF= wireless NEXUS® system interface ¹		150LJ= deco head, MR16 LED, 12V-6W ¹
	72= 72W (S)			LW= twist-lock plug ²		150LL= deco head, MR16 LED, 24V-4W ¹
	100= 100W (S)			P= light activated test switch		LA= MR16 LED, 6V-4W
	144= 144W (S)			T= lamp disconnect (programmable)		LB= MR16 LED, 6V-5W
	216= 216W (L)			TB= DC terminal block		LG= MR16 LED, 12V-4W
24ESLT= 24V	144= 144W (L)			TBAC= AC terminal block		LI= MR16 LED, 12V-5W
	288= 288W (L)			TBACDC= AC/DC terminal block		LJ= MR16 LED, 12V-6W
				U= auto-diagnostics ¹		LL= MR16 LED, 24V-4W
				UN= auto-diagnostics, non-audible ¹		LM= MR16 LED, 24V-6W
			V= voltmeter			

Example: 06ESLT108U/2LI

¹Minimum lamp load required: 20% of unit capacity
Not all options available with the NEXUS® system. Please consult your sales representative.
²120V is standard

¹Polar white or black cabinets only

New product**CMPB-E Series**

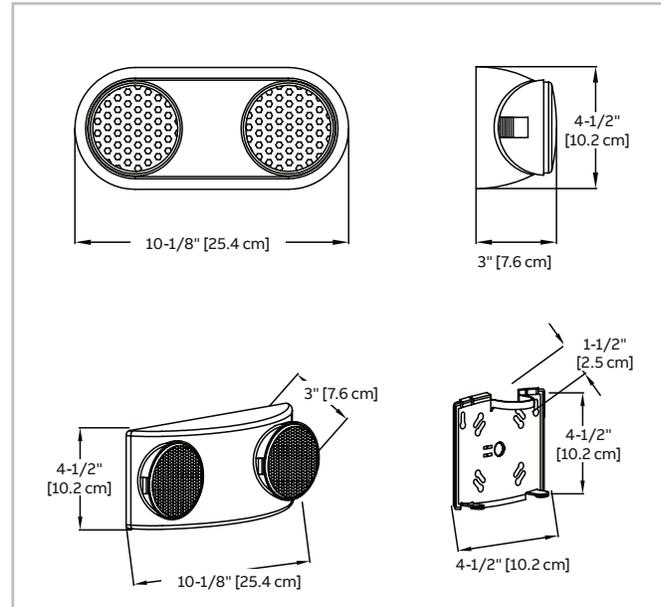
Miniature LED battery unit

**Features**

- Fully adjustable LED glare-free lens
- 3.6V 2W long life LED light source
- 120/277/347VAC Input
- Automatic, temperature compensated, pulse type charger of battery
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection
- Sealed maintenance-free 3.6V nickel-cadmium battery offering 120 minutes of emergency lighting
- Battery lock-out prevents discharge during installation
- Red LED charger monitor
- Momentary test switch allows for quick operational check
- Injection-molded thermoplastic ABS housing
- Rear keyhole slots and universal knock-outs to mount to any standard 4" junction box
- Injection-molded thermoplastic ABS housing
- Fast and easy installation with snap-together design
- Ceiling or wall mount installation
- Suitable for damp locations
- Use in 5°C-30°C ambient temperature
- Meets CSA C22.2 no.141-15

Warranty details at: www.emergi-lite.ca/**Dimensions**

Dimensions are approximate and subject to change.

**Power consumption and unit rating**

Series	Voltage	Wattage	AC specs	
			Current	Efficiency
CM-PB	120V, 50/60 Hz	1.6W	0.012A	0.96PF
	277V, 50/60 Hz	1.8W	0.007A	0.92PF
	347V, 50/60 Hz	2.4W	0.007A	0.92PF

**Ordering information**

Series	Voltage
CM-PB-E	Blank= 120/277/347VAC

Example: CM-PB-E

New product

ECB-HO Series

Commercial battery unit



Features

- Fully adjustable LED glare-free lens
- 5.4W long life high output LED light source
- Provides 90° spacing at 7.5' mounting height
- Dual voltage input capability 120/347VAC
- Automatic, temperature compensated, pulse type charger
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection
- Sealed 9.6V-12W lithium-ion battery offering 90 minutes of emergency lighting
- Battery lock-out prevents discharge during installation
- Red LED charger monitor
- Momentary test switch allows for quick operational check
- Injection-molded thermoplastic ABS housing
- Rear keyhole slots and universal knock-outs to mount to any standard 4" junction box
- Fast and easy installation with snap-together design
- Ceiling or wall mount installation
- Comes standard with one (1) year warranty
- Meets or exceeds CSA C22.2 no.141-15
- **Warranty details at: www.emergi-lite.ca**

Typical specifications

The contractor will install the **Emergi-Lite® ECB-HO LED Series** battery unit.

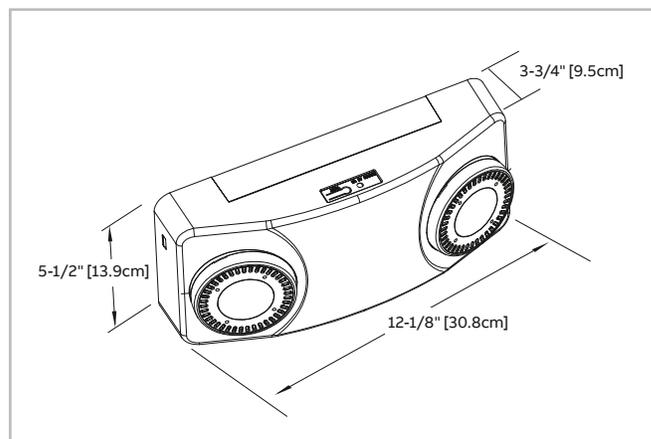
The emergency lighting system shall consist of fully automatic equipment with two High output LED heads. Each unit shall contain a fully automatic, solid state charger with test switch and AC ON pilot lights.

The unit shall contain a sealed transfer circuit and low voltage disconnect circuit. The battery shall be 9.6V with a capacity of 12W for 90 minutes.

The unit shall be cUL approved to meet CSA 22.2 no. 141-15 standard. The unit shall be **Emergi-Lite®** model: _____.

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	DC specs
ECB-HO	120/347VAC 0.08 A	0.8 W LifePO Min. 90 minutes

Ordering information

Series	Voltage
ECB-HO= Commercial battery unit high output	Blank= 120/347VAC

Example: ECB-HO

New product

JMLC-BLD Series

Steel, compact and 6V



Features

- “Built-in” 3W LED heads
- Compact steel cabinet with corrosion-resistant undercoating
- Quick and easy installation – pre-assembled cordset, no batteries or board to remove before installation
- Universal spider knockout pattern for junction box mounting
- Fully automatic solid-state charger with test switch and AC-on pilot light
- Sealed dust-proof transfer relay circuit and low-voltage disconnect
- Long-life, maintenance-free sealed
- Standard input 120 VAC with line cord installed
- 120/347 VAC without line cord
- Certified CSA C22.2 No.141-15
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

The contractor shall install the **Emergi-Lite® JMLC-BLD Series** battery units. The emergency lighting system shall consist of fully automatic equipment with two emergency lighting heads. The unit shall be rated 6 V with a capacity of 27 W for 30 minutes of emergency operation.

The charger shall be factory set with a charging voltage tolerance of $\pm 1\%$ to enable a longer battery life. The metal cabinet shall be made of steel with anti-corrosion undercoating. The unit shall be CSA certified to C22.2 no.141-15.

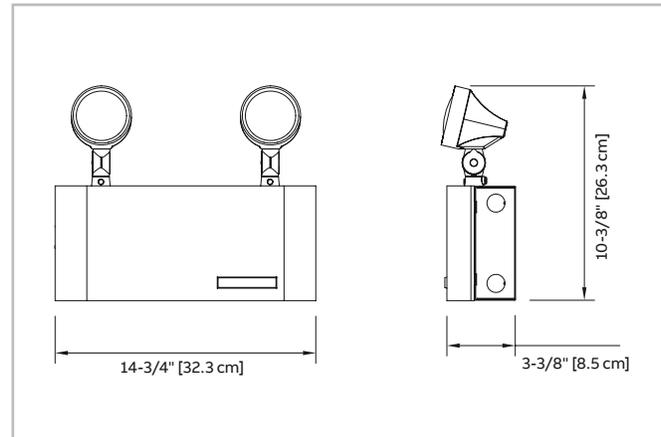
The unit shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0080-E	Wall mount

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	30 min	1H00	1H30	Wattage capacity		
					2H00	4H00	
06JMLC27	120/347 VAC	0.06/0.02 A	27	15	11	9	-

Ordering information

Series	Capacity	AC voltage	# of heads	Head style/wattage
06JMLC= 6V	27= 27W	-2= 277VAC input -3= 120/347VAC input Blank= 120VAC input comes with linecord	/1= One head /2= Two heads	BLD= Built-in LED

Example: 06JMLC27/2BLD

New product

CM-SB Series

Steel battery unit



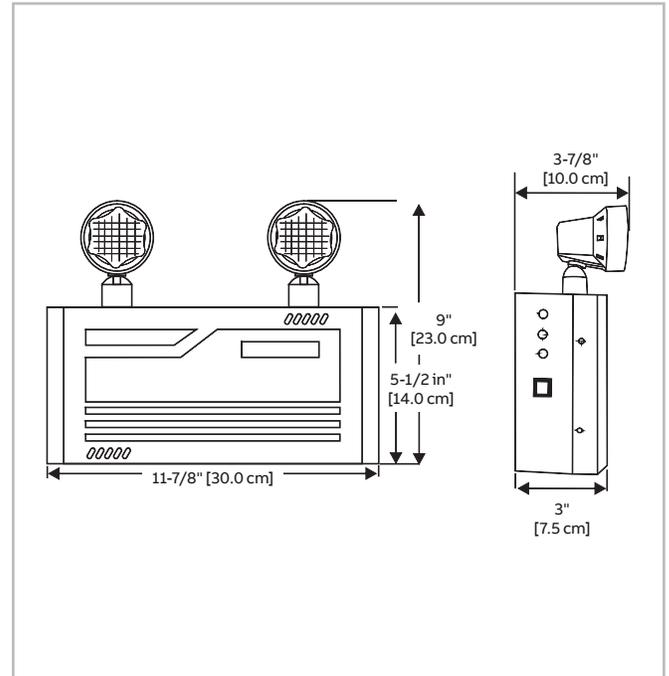
Features

- Steel housing with lightweight thermoplastic fully adjustable 2W, long life LED heads
- Suitable for wall mount application
- Fully adjustable LED glare-free lens
- Can power CM-R1 and CM-R2 remote fixtures only
- 120-347VAC input
- Lead-acid battery
- Up to 120 minutes of emergency lighting
- Red LED charger monitor
- Momentary test switch allows for quick operational check
- CSA C22.2 no.141-15 certified
- **Warranty details at: www.emergi-lite.ca**



Dimensions

Dimensions are approximate and subject to change.



BATTERY UNITS

Power consumption and unit rating

Model	AC specs			
	Wattage	Current	Efficiency	
CM-SB-E	120V, 50/60Hz	3.2W	0.03A	0.97PF
	277V, 50/60Hz	3.4W	0.014A	0.92PF
	347V, 50/60Hz	3.6W	0.01A	0.92PF

Ordering information

Series	Voltage	Brand
CM-SB	Blank= 120VAC-347VAC	-E= Emergi-Lite®

Example: CM-SB-E

JMLC Series

Steel, compact, 6V and 12V



Features

- Compact steel cabinet with corrosion-resistant undercoating
- Quick and easy installation – pre-assembled cordset, no batteries or board to remove before installation
- Universal Spider knockout pattern for junction box mounting
- Fully automatic solid-state charger with test switch and AC-on pilot light
- Sealed dust-proof transfer relay circuit and low-voltage disconnect
- Long-life, maintenance-free sealed
- NEXUS® compatible. Please consult your sales representative
- Heads require no tools for orientation
- Standard input 120 VAC with line cord installed
- 120/347 VAC without line cord
- Certified CSA C22.2 No.141
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

The contractor shall install the **Emergi-Lite® JMLC Series** battery units. The emergency lighting system shall consist of fully automatic equipment with two emergency lighting heads. The unit shall be rated _____ V with a capacity of _____ W for 30 minutes of emergency operation.

The charger shall be factory set with a charging voltage tolerance of $\pm 1\%$ to enable a longer battery life. The emergency light heads shall require no tools for adjusting or aiming. The metal cabinet shall be made of steel with anti-corrosion undercoating.

The unit equipped with the auto-test micro-controller board shall self-test 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be supplied with a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnect, Charger Failure, Lamp Failure, Service Alarm, main voltage AC "ON", Charger High Rate.

The unit shall be CSA certified to C22.2 no.141.

The unit shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0080-E	Wall mount

Replacement lamps

Ordering code	Type	Voltage/wattage
580.0097-E	MR16, LED	6V-4W
580.0122-E	MR16, LED	6V-5W
580.0093-E	MR16, LED	12V-4W
580.0104-E	MR16, LED	12V-5W
580.0106-E	MR16, LED	12V-6W

Housing colour



Black



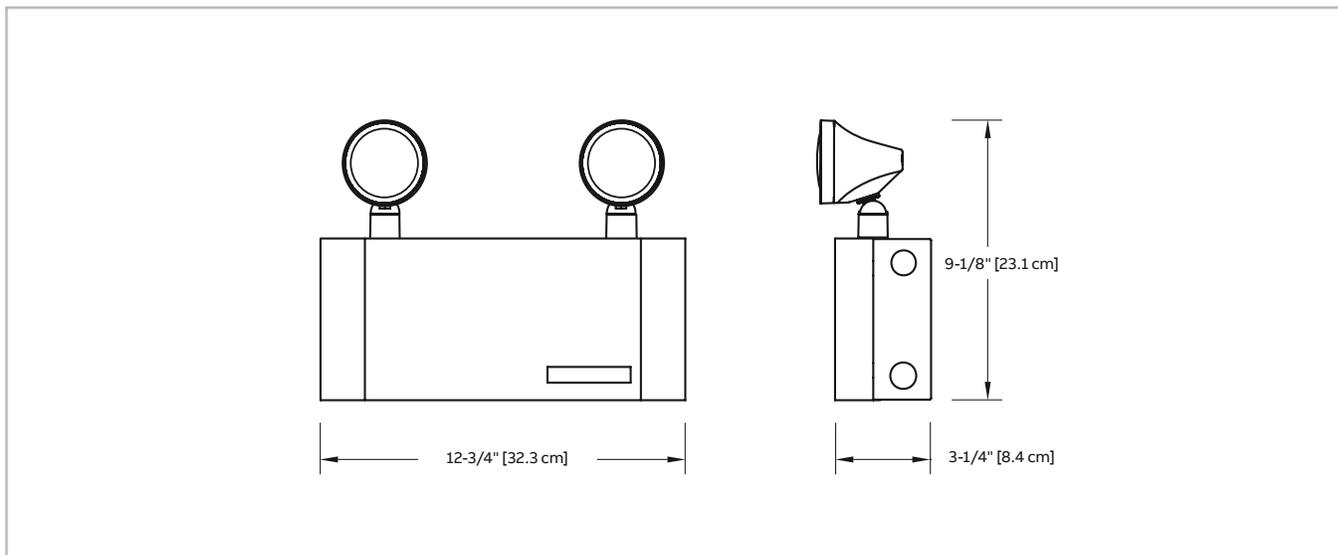
Factory white

JMLC Series

Steel, compact, 6V and 12V

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06JMLC27	0.06/0.02 A	27	15	11	9	–
06JMLC44	0.18/0.06 A	44	26	18	15	7
06JMLC72	120/347VAC 0.19/0.07 A	72	42	30	24	12
12JMLC44	0.31/0.10 A	44	26	18	15	7
12JMLC72	0.31/0.10 A	72	42	30	24	12

Ordering information

Series	Capacity	Colour	Voltage	Options	# of heads	Head style/wattage
06JMLC= 6V	27= 27W	BK= black	-2= 277VAC input	Blank= no options	/0= no heads	LA= MR16 LED, 6V-4W
	44= 44W	Blank= factory white	-3= 120/347VAC input	CT= cab-tire	/1= one head	LB= MR16 LED, 6V-5W
12JMLC= 12V	72= 72W		Blank= 120VAC c/w linecord	LW= twist-lock plug ¹	/2= two heads	LG= MR16 LED, 12V-4W
	44= 44W			NEX= NEXUS [®] system interface ²		LI= MR16 LED, 12V-5W
	72= 72W			NEXRF= wireless NEXUS [®] system interface ²		LJ= MR16 LED, 12V-6W
				U= auto-diagnostics ²		
				UN= auto-diagnostics, non-audible ²		

¹120V is standard
²Not available in 6V-72W.

Example: 06JMLC44/2L1

Not all options available with NEXUS[®] system. Please consult your sales representative.

JMC Series

Steel, compact, 6V and 12V



Features

- Compact steel cabinet with corrosion-resistant undercoating
- Quick and easy installation – pre-assembled cordset, no batteries or board to remove before installation
- Universal Spider knockout pattern for junction box mounting
- Fully automatic solid-state charger with test switch and AC-on pilot light
- Sealed dust-proof transfer relay circuit and low-voltage disconnect
- Long-life, maintenance-free sealed
- Heads require no tools for orientation
- Standard input 120 VAC with line cord installed
- 120/347 VAC without line cord
- Certified CSA C22.2 No.141-15
- **Warranty details at: www.emergi-lite.ca**

Nexus®Pro   

Typical specifications

The contractor shall install the **Emergi-Lite® JMC Series** battery units. The emergency lighting system shall consist of fully automatic equipment with two emergency lighting heads. The unit shall be rated _____ V with a capacity of _____ W for 30 minutes of emergency operation. The charger shall be factory set with a charging voltage tolerance of $\pm 1\%$ to enable a longer battery life. The emergency light heads shall require no tools for adjusting or aiming. The metal cabinet shall be made of steel with anti-corrosion undercoating.

The unit equipped with the auto-test micro-controller board shall selftest 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be supplied with a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnect, Charger Failure, Lamp Failure, Service Alarm, main voltage AC "ON", Charger High Rate.

The unit shall be CSA C22.2 no.141-15 certified.

The unit shall be **Emergi-Lite®** model: _____

Wire guards

Ordering code	Description
460.0080-E	Wall mount

Replacement lamps

Ordering code	Type	Voltage/wattage
580.0097-E	MR16, LED	6V-4W
580.0122-E	MR16, LED	6V-5W
580.0093-E	MR16, LED	12V-4W
580.0104-E	MR16, LED	12V-5W
580.0106-E	MR16, LED	12V-6W

Housing colour



Black



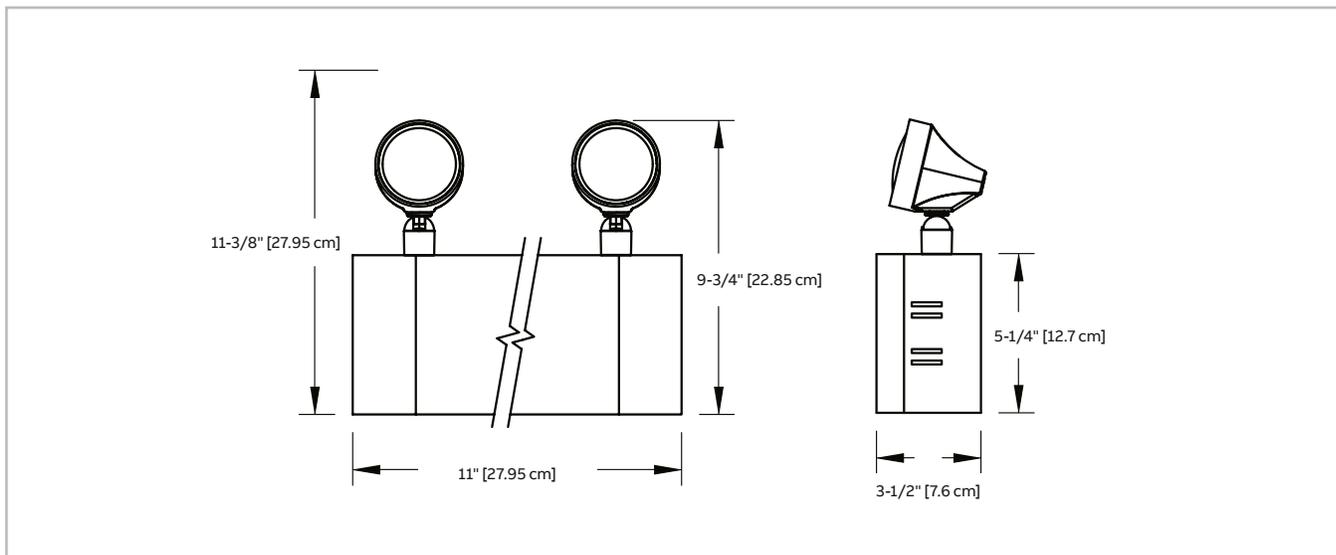
Factory white

JMC Series

Steel, compact, 6V and 12V

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06JMC27	0.06/0.02 A	27	15	11	9	-
06JMC44	120/347VAC 0.18/0.06 A	44	26	18	15	7
12JMC44	0.31/0.10 A	44	26	18	15	7

Ordering information

Series	Capacity	Colour	Voltage	Charge type	Options	# of heads	Head style/wattage
06JMC= 6V	27= 27W 44= 44W	BK= black Blank= factory white	-2= 277VAC input -3= 120/347VAC input Blank= 120VAC c/w linecord	NEXP= NEXUS®Pro IoT	Blank= no options CT= cabtire [†] LW= cabtire plus twist lock plug [†]	/0= no heads /1= one head /2= two heads	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W
12JMC= 12V	44= 44W						

Example: 06JMC44NEXP

[†]120V is standard

Note: Minimum lamp load required: 20% of unit capacity

JMLA Series

Decorative, 6 and 12V



Features

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator light(s)
- Long-life, maintenance-free lead acid battery
- NEXUS® compatible. Please consult your sales representative
- CSA C22.2 No. 141 Certified
- **Warranty details at: www.emergi-lite.ca**

nexus®



Typical specifications

Supply and install the **Emergi-Lite® JMLA Series** battery units. The battery unit shall come complete with two MR16 emergency lighting heads. The unit shall be rated for dual voltage 120/347V, 60 Hz and shall provide power to the nominal load for at least 30 minutes to 87.5% of the nominal voltage of the battery. The charger shall be factory set with a charging voltage tolerance of $\pm 1\%$ to enable a longer battery life. The emergency light heads shall be fully adjustable and protected by a clear cover, made of shock-resistant polycarbonate. The protective cover shall be designed to facilitate lamp replacement. The heads shall be installed at the bottom of the unit, providing illumination in any downward direction. The emergency light heads shall require no tools for orientation. The unit cabinet shall be made of steel with anti-corrosion undercoating. The unit equipped with the auto-test diagnostic micro-controller board shall self-test 1 minute every 30 days, 10 minutes the every 6 months and 30 minutes every 12 months. The unit shall be supplied with a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnect, Charger Failure, Lamp Failure, Service Alarm, main voltage AC "ON", Charger High Rate.

The unit shall be CSA Certified to C22.2 no.141.

The unit shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0080-E	Wall mount

Replacement lamps

Ordering code	Type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0074-E	MR16	6V-6W
580.0079-E	MR16	6V-10W
580.0093-E	MR16 LED	12V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W
580.0080-E	MR16	12V-12W
580.0068-E	MR16	12V-20W

Housing colour



Black



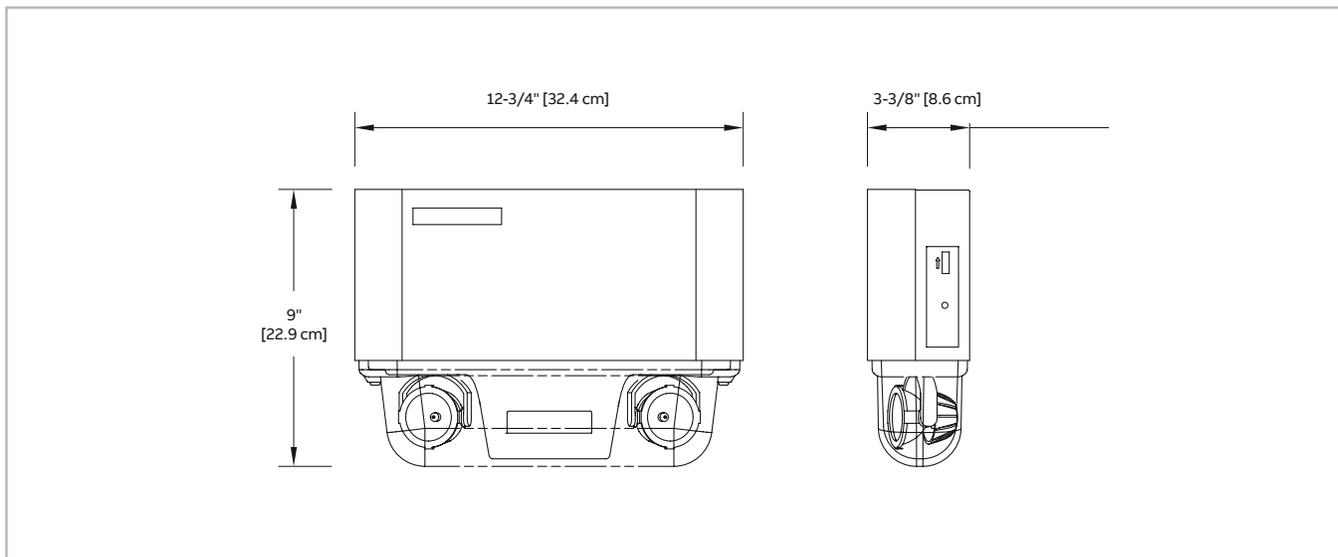
Factory white

JMLA Series

Decorative, 6 and 12V

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06JMLA27	0.06/0.02 A	27	15	11	9	-
06JMLA44	0.18/0.06 A	44	26	18	15	7
06JMLA72	120/347VAC 0.19/0.07 A	72	42	30	24	12
12JMLA44	0.31/0.10 A	44	26	18	15	7
12JMLA72	0.31/0.10 A	72	42	30	24	12

Ordering information

Series	Capacity	Colour	Voltage	Options	# of heads	Head style/wattage
06JMLA= 6V	27= 27W ¹	BK= black	-2= 277VAC input	Blank= no options	/2= two heads	LA= MR16 LED, 6V-4W
	44= 44W	Blank= factory white	Blank= 120/347VAC	CT= cab-tire		LG= MR16 LED, 12V-4W
	72= 72W			LC= linecord (120V)		LI= MR16 LED, 12V-5W
12JMLA= 12V	44= 44W			LW= twist-lock plug		LJ= MR16 LED, 12V-6W
	72= 72W			NEX= NEXUS® system interface ¹		MI= MR16, 6V-6W
				NEXRF= wireless NEXUS® system interface ¹		MJ= MR16, 6V-10W
				U= auto-diagnostics ¹		MK= MR16, 12V-12W
				UN= auto-diagnostics, non-audible ¹		MW= MR16-IR, 12V-20W

¹Not available in 12V

¹Not available in 6V-72W.

Not all options available with NEXUS® system. Please consult your sales representative.

Example: 12JMLA44UN/2MW

ESL Series

6, 12 and 24V



Features

10-year life expectancy, maintenance-free emergency lighting units.

The **ESL Series** battery units combine long life expectancy, high-performance design and a reasonable initial cost outlay. Ideally suited for a range of commercial applications, the long-life lead acid battery is specifically recommended for environments where the unit will be exposed to large variances in ambient temperature.

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows the unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- NEXUS® compatible (for more information on NEXUS®, please consult your sales representative)
- CSA C22.2 No. 141 certified
- Standard 120/347 VAC input with line cord kit
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Housing colour



Black



Factory white

Typical specifications

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The **Emergi-Lite® Smart Diagnostic** micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of: _____ V and _____ W.

The charger shall be fully computer tested and its charge voltage factory set to $\pm 1\%$ tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, and when the battery is at full capacity, the charger will shut off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected.

The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with a sealed dust tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The emergency lighting heads shall require no tools for orientation.

The unit shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Mounting	Cabinet
460.0078-E	Wall mount	"A" cabinet
460.0081-E	Wall mount	"B" cabinet
460.0034-E	Wall mount	"C" cabinet

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

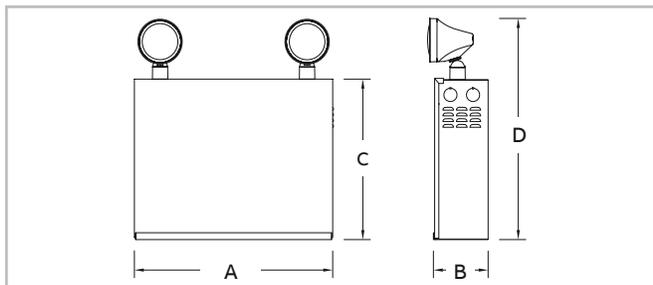
N = New options

ESL Series

6, 12 and 24V

Dimensions

Dimensions are approximate and subject to change.



Cabinet	Dimensions			
	A	B	C	D
A	13 1/4" (33.7 cm)	3 5/8" (9.2 cm)	10 1/2" (26.7 cm)	14 1/4" (36.2 cm)
B	16 1/8" (40.9 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)
C	23 1/8" (58.7 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)

Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06ESL36	0.10/0.04 A	36	21	15	12	6
06ESL72	0.22/0.08 A	72	42	30	24	12
06ESL108	0.22/0.08 A	108	63	45	36	18
06ESL180	0.22/0.08 A	180	105	75	60	30
12ESL36	0.09/0.03 A	36	21	15	12	6
12ESL72	0.15/0.06 A	72	42	30	24	12
12ESL100	0.34/0.12 A	100	58	42	33	17
12ESL144	0.40/0.14 A	144	84	60	48	24
12ESL216	0.41/0.14 A	216	117	83	67	33
12ESL250	0.41/0.14 A	250	144	100	38	42
12ESL360	0.41/0.14 A	360	200	144	108	60
24ESL144	0.43/0.15 A	144	84	60	48	24
24ESL200	0.55/0.20 A	200	117	83	67	33
24ESL288	0.67/0.23 A	288	168	120	96	48
24ESL350	0.67/0.23 A	350	200	144	120	60
24ESL432	0.67/0.23 A	432	250	180	144	72
24ESL550	0.88/0.33 A	550	320	230	180	90
24ESL720	0.88/0.33 A	720	420	300	240	120

120/347VAC

Note: Low wattage LED lamps provide extended time of emergency lighting without additional power.

Ordering information

Series	Capacity/cabinet ¹	Colour	Voltage	Options	# of heads	Head/wattage
06ESL= 6V	36= 36W (A)	BK= black	-2= 277VAC input	A= ammeter	/0= no heads	LA= MR16 LED, 6V-4W
	72= 72W (A)	Blank= factory white	Blank= 120/347 VAC input	CP53= constant power supply 3 Amps, 24V only ¹ N	/1= one head	LB= MR16 LED, 6V-5W
	108= 108W (A)			CT= cab-tire	/2= two heads	LG= MR16 LED, 12V-4W
	180= 180W (B)			D= time delay	/3= three heads	LI= MR16 LED, 12V-5W
12ESL= 12V	36= 36W (A)			LW= twist-lock plug (120V) ²		LJ= MR16 LED, 12V-6W
	72= 72W (A)			NEX= NEXUS® system interface ³		LL= MR16 LED, 24V-4W
	100= 100W (A)			NEXRF= wireless NEXUS® system interface ³		LM= MR16 LED, 24V-6W
	144= 144W (A)			P= light activated test switch		
	216= 216W (B)			RF3= radio frequency interference filter, 347VAC N		
	250= 250W (B)			RFI= radio frequency interference filter, 120VAC N		
24ESL= 24V	144= 144W (A)			T= lamp disconnect		
	200= 200W (B)			TB= DC terminal block		
	288= 288W (B)			TBAC= AC terminal block		
	350= 350W (C)			TBACDC= AC/DC terminal block		
	432= 432W (C)			U= auto-diagnostics ³		
	550= 550W (C)			UN= auto-diagnostics non-audible ³		
	720= 720W (C)			V= voltmeter		

¹Cabinet size is not part of nomenclature

Example: 06ESL108U/2LL

¹"C" Cabinet only. 24V, 144W-720W. / ²120V is standard

³Not available with 6V-108W. Minimum lamp load required: 20% of unit capacity.

Not all options available with the NEXUS® system. Please consult your sales representative.

⁴See zone control box in options section. B & C cabinet only.

ESL HP Series

High-performance commercial battery unit



Features

Standard life expectancy, maintenance-free emergency lighting units.

The **ESL High Performance Series** battery units combine long life expectancy, high-performance design and a reasonable initial cost outlay. Ideally suited for a range of commercial applications that require high performance emergency lighting fixtures.

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows the unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature compensated, short-circuit proof and reverse-polarity protected.
- Die cast aluminum high efficiency heads
- Innovative head design featuring four LEDs and a dual driver that provide even illumination even in case of unexpected component failure
- Standard grey colour (black optional)
- May be wired from top or side only. Rear keyhole slots provided for installation (except for 24V model)
- Maintenance-free lead-acid battery
- Standard 120/347VAC input voltage
- Advanced diagnostics capabilities (specific load requirements)
- Meets exceeds CSA C22.2 No. 141-15
- **Warranty details at: www.emergi-lite.ca**

nexus®



Typical specifications

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The **Emergi-Lite® Smart Diagnostic** micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of: _____ V and _____ W.

The charger shall be fully computer tested and its charge voltage factory set to $\pm 1\%$ tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, and when the battery is at full capacity, the charger will shut off.

Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected.

The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with a sealed dust tight relay and a test switch. When specified, units with self-test and auto-diagnostic feature shall be equipped with diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The emergency lighting heads shall require no tools for orientation.

The unit shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Mounting	Cabinet
460.0078-E	Wall mount	"A" cabinet

Housing colour



Black



Grey (standard)

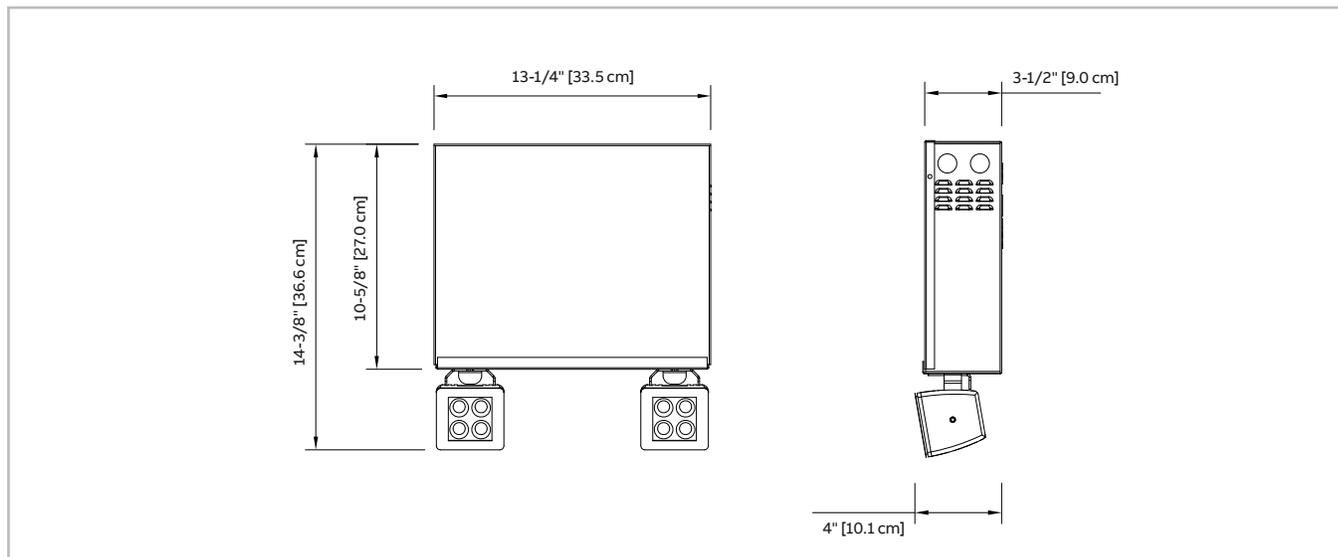
EMERGI-LITE

ESL HP Series

High-performance commercial battery unit

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
12ESL36	120/347VAC	36	21	15	12	6
12ESL72		72	42	30	24	12
12ESL100		100	58	42	33	17
12ESL130		130	75	54	43	22
24ESL144		144	84	60	48	24

Note: Low wattage LED lamps provide extended time of emergency lighting without additional power.

Ordering information

Series/ voltage / capacity	Colour	Input voltage	Charger type
12ESL36= 36W (A)	BK= black ¹	-2= 120/277VAC input	Blank= standard
12ESL72= 72W (A)	GY= grey (standard)	Blank= 120/347VAC input	NEX= NEXUS® wired
12ESL100= 100W (A)			NEXRF= NEXUS® wireless
12ESL130= 130W (A)			U= auto-diagnostic
24ESL144= 144W (A)			UN= auto-diagnostic non-audible

¹L15 head only

Options (can be combined)	# of heads	Head style / lamp wattage
D= time delay (15 min. default)	0= no heads	L6= 12-24V, 6W
RFI= 120VAC radio frequency interference filter	/2 = two heads	L10= 12-24V, 10W
RF3= 347VAC radio frequency interference filter		L15= 12-24V, 15W

Example: 24ESL144GYU2L15

Distinction™ Series

Decorative 6, 12 and 24V



Features

High performance and energy efficiency in a contemporary design.

The **Distinction™ Series** decorative battery units combine a contemporary design with the latest in high-tech security capability.

Designed to meet the needs of interior design professionals, these battery units are also high performance and energy-efficient.

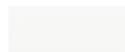
- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights continuously monitor unit status
- Long-life, maintenance-free lead acid battery
- NEXUS® compatible (for more information on NEXUS®, please consult your sales representative)
- CSA C22.2 No. 141 certified
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Housing colour



Black



Polar white

Typical specifications

Supply and install the **Emergi-Lite® Distinction™ Series** battery units.

The battery unit will supply the rated load for a minimum of hour to 87.5% of the rated battery/voltage. The unit shall be rated 120 or 347V, 60 Hz and be CSA No.141 listed. The charger shall be fully computer tested and its charge voltage factory set to ± 1% tolerance. A pulse type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide continuous high charge to recharge the battery. When the battery is at full capacity the charger will shut off. The pulse charge shall be current limited and precisely regulated by an electronic circuit which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected.

The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage.

A low voltage battery protection circuit will disconnect the battery at end of the discharge. The unit will come complete with the **Distinction™ Series** diagnostics micro-controller board option. The unit shall self- test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be furnished with a sealed dust tight relay, a selectable test switch 1 minute, 5 minutes, 10 minutes or 20 minutes and diagnostics LED indicator lights to continuously monitor the status of the unit: battery failed, battery disconnect, charger failure, lamp failure, service alarm, AC “ON” and charger “ON”.

The unit shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Mounting	Cabinet
460.0078-E	Wall mount	“A” cabinet
460.0081-E	Wall mount	“B” cabinet
460.0034-E	Wall mount	“C” cabinet

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0093-E	MR16, LED	12V-4W
580.0098-E	MR16, LED	24V-4W
580.0097-E	MR16, LED	6V-4W
580.0122-E	MR16, LED	6V-5W
580.0100-E	MR16, LED	24V-6W
580.0104-E	MR16, LED	12V-5W
580.0106-E	MR16, LED	12V-6W

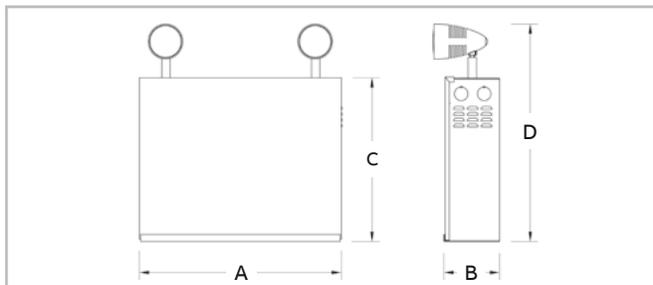
N = New options

Distinction™ Series

Decorative 6, 12 and 24V

Dimensions

Dimensions are approximate and subject to change.



Cabinet	Dimensions			
	A	B	C	D
A	13 1/4" (33.7 cm)	3 5/8" (9.2 cm)	10 1/2" (26.7 cm)	14 1/4" (36.2 cm)
B	16 1/8" (40.9 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)
C	23 1/8" (58.7 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)

Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06ESL36	0.10/0.04 A	36	21	15	12	6
06ESL72	0.22/0.08 A	72	42	30	24	12
06ESL108	0.22/0.08 A	108	63	45	36	18
06ESL180	0.22/0.08 A	180	105	75	60	30
12ESL72	0.15/0.06 A	72	42	30	24	12
12ESL100	0.34/0.12 A	100	58	42	33	17
12ESL144	0.40/0.14 A	144	84	60	48	17
12ESL216	0.41/0.14 A	214	84	60	48	24
12ESL250	120/347VAC 0.41/0.14 A	220	120	90	72	36
12ESL360	0.43/0.15 A	250	144	100	83	42
24ESL144	0.55 / 0.20 A	360	300	210	170	80
24ESL200	0.67 / 0.23 A	200	117	83	67	33
24ESL288	0.67 / 0.23 A	208	168	120	96	48
24ESL350	0.67 / 0.23 A	350	200	144	120	60
24ESL432	0.67 / 0.23 A	432	250	180	144	72
24ESL550	0.88 / 0.33 A	550	320	230	180	90
24ESL720	0.88 / 0.33 A	720	600	420	340	160

Note: Units provide higher power for minimum one hour of emergency lighting.

Ordering information

Series	Capacity/cabinet ¹	Colour	Voltage	Options	# of heads	Head/wattage
06ESL= 6V	36= 36W (A)	BK= black	-2= 277VAC input	A= ammeter	/1= one head	LA= MR16 LED, 6V-4W
	72= 72W (A)	Blank= polar white	Blank= 120/347 VAC input	CPS3= constant power supply 3 Amps, 24V only ¹ N	/2= two heads	LB= MR16 LED, 6V-5W
	108= 108W (A)			CT= cab-tire	/3= three heads	LG= MR16 LED, 12V-4W
	180= 180W (B)			D= time delay		LI= MR16 LED, 12V-5W
12ESL= 12V	72= 72W (A)			LW= twist-lock plug (120V) ²		LJ= MR16 LED, 12V-6W
	100= 100W (A)			NEX= NEXUS® system interface ³		LL= MR16 LED, 24V-4W
	144= 144W (A)			NEXRF= wireless NEXUS® system interface ³		LM= MR16 LED, 24V-6W
	216= 216W (B)			P= light activated test switch		
	250= 250W (B)			RF3= radio frequency interference filter, 347VAC N		
	360= 360W (B)			RFI= radio frequency interference filter, 120VAC N		
24ESL= 24V	144= 144W (A)			T= lamp disconnect		
	200= 200W (B)			TB= DC terminal block		
	288= 288W (B)			TBAC= AC terminal block		
	350= 350W (C)			TBACDC= AC/DC terminal block		
	432= 432W (C)			U= auto-diagnostics ³		
	550= 550W (C)			UN= auto-diagnostics non-audible ³		
	720= 720W (C)			V= voltmeter		
				ZCB= zone control panel ⁴ N		

¹Cabinet size is not part of nomenclature

²120V is standard

³Minimum lamp load required: 20% of unit capacity.

Not all options available with the NEXUS® system. Please consult your sales representative.

⁴See zone control box in options section. B & C cabinet only.

Example: 06ESL108U/2EF150LA

Survive-All™ NXM Series

NEMA-4X



Features

- Fully gasketed cast aluminum back plate with clear polycarbonate cover – NEMA-4X certified
- Comes standard with non-audible advanced diagnostic, 15 minutes time delay and lamp disconnect
- Audible warning and time delay functions can be enabled or disabled during installation
- Micro-controller diagnostic system tests, detects and indicates battery, charger circuitry or LED lamp failures
- Non-intrusive magnetic test switch
- Long-life, maintenance-free sealed lead-acid battery
- 1/2" rigid conduit entry on top and back
- Can be installed on 4" junction boxes
- Comes standard with tamper-proof screws and bit
- Cold weather option -40°C (-40°F)
- NSF Certified for food processing plants
- Standard 120/347VAC input voltage
- Meets and exceeds CSA C22.2 No. 141-15 certified
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus® Nexus®Pro   NEMA-4X  

Typical specifications

Supply and install the **Emergi-Lite® NEMA-4X Certified Survive-All™ NXM Series** battery unit. Specifically designed for high abuse areas, wet locations, and cold weather (CW option -40°C (-40°F)), the housing shall consist of a fully gasketed Die-Cast with a cast aluminum back plate and a clear heavy-duty UV resistant polycarbonate cover. The heads shall be fully adjustable without tools and the lamps shall be high efficiency MR16 LED. The standard unit shall be equipped with tamper-proof screws and bits.

The **Emergi-Lite®** Advanced Diagnostic micro-controller charger board shall supply the rated load for a minimum of 30 minutes to 87.5% of the rated battery voltage. The charger incorporates lockout and brownout circuits, and low voltage disconnection. It protects the unit from over-current, shortcircuit, and reverse polarity. The unit shall be rated 120/347V, 60Hz.

The unit shall have an output of _____ V. This unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be furnished with a non-intrusive magnetic test switch. A "Service Required" lamp shall be located near the test switch and flash when a fault is detected. A four-LED diagnostic display shall be located inside the equipment and shall identify the source of failure (battery, charger, circuitry, or lamps).

The unit shall be CSA 22.2 No. 141-15 certified

The equipment shall be **Emergi-Lite®** model: _____

Wire guards

Ordering code	Description
460.0031-E	Wall mount

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Survive-All™ NEMA 4X & NSF certified family



ENC Series



EN Series



EF39 & EF39P Series

Housing colour



Black



Grey



White

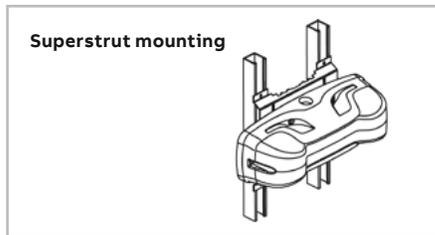
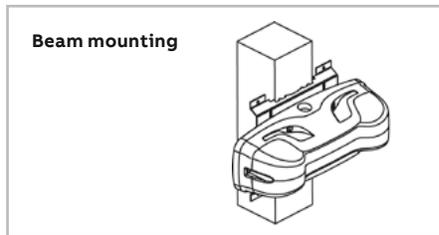
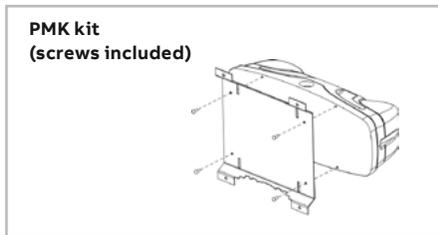
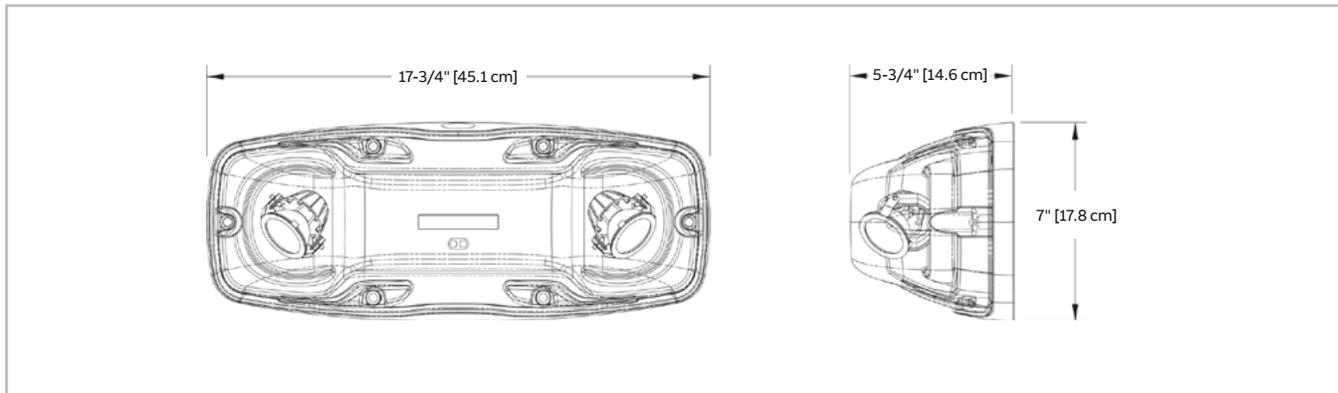
EMERGI-LITE

Survive-All™ NXM Series

NEMA-4X

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06NXM36	0.15/0.06 A	36	21	15	12	6
12NXM72	120/347VAC	72	42	30	24	12
12NXM108		108	63	45	36	18
Cold weather 36W	0.45/0.20 A	36	-	-	-	-
Cold weather 72/108W	120VAC	0.85 A	72/108	-	-	-

Note: Capacity depends on the ambient temperature.

Ordering information

Series	Colour	Capacity	Voltage
06NXM= 6V, NEMA-4X	B= black	36= 6V-36W	2= 277VAC
12NXM= 12V, NEMA-4X	G= grey	72= 12V-72W	Blank= 120/347VAC
	W= white	108= 12V-108W	
	Options	# of heads	Lamps
	690.0454-E= additional-bit for tamper-proof screws (sold separately)	/2= 2 heads	LA= MR16 LED, 6V-4W
	Blank= auto-diagnostic, non audible		LB= MR16 LED, 6V-5W
	CW1= cold weather 120VAC		LG= MR16 LED, 12V-4W
	CW3= cold weather 347VAC ¹		LI= MR16 LED, 12V-5W
	NEX= NEXUS® system interface		LJ= MR16 LED, 12V-6W
	NEXP= NEXUS®Pro IoT		
	NEXRF= wireless NEXUS® system interface		
	PMK-E= universal bracket (sold separately)		

Note: Minimum lamp load required: 20% of unit capacity

Example: 06NXMW36/2LA

¹Available in 6V only

EHP Series

NEMA-4X rated



Features

- Fiberglass grey housing with captive screws. It is designed for heavy-duty industrial applications: indoors, outdoors, hose-down areas, cold-storage facilities etc
- NEMA-4X protection grade against liquids and windblown dust
- High ambient temperature up to 50°C [122°F] and optional cold-weather -40°C to 50°C (-40°F to 122°F)
- High temperature lead-calcium battery
- High-efficacy LED emergency heads outperform traditional 50W halogen lamps
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure
- Product features stainless steel exterior hardware
- Simple and easy to install on walls, poles, columns or struts. For vertical installation on poles or columns use mounting bracket catalogue number: PMK1-E (sold separately)
- May be wired from top or side (see drawing for position)
- Standard infrared **remote test control** included in all models: allows to test the equipment without the need to climb a ladder. Functional up to a distance of 30 ft. universal, one remote test control may test all units on the job.
- Optional audible and non-audible Auto-Diagnostic and auto-test
- Optional NEXUS® central monitoring system
- Meets or exceeds CSA C22.2 No. 141-15
- 1-year limited warranty
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-Lite® EHP Series** of battery unit equipment. The unit enclosure shall have a compression-molded fiberglass construction and shall be equipped with a hinged, overlapping cover. The cover shall include a 3/16" wide rubber gasket and shall fasten with two stainless-steel captive screws. The enclosure shall have lateral flanges with holes for easy installation on the wall and also include two water-tight plugs of size 1/2" NPT for vertical and horizontal conduit and wire access. The emergency lighting heads shall be installed at the bottom of the cabinet and have the electrical cable passing through the swivel via water-tight bushings. The heads shall be made of die-cast aluminum and have a flat square lens made of UV-stabilized clear polycarbonate. The lens shall be sealed with a rubber gasket and be fixed with an aluminum frame and 6 (six) tamper-proof screws. Each head shall include four (4) LEDs and two independent LED drivers with electrical connections allowing for lighting even in case of unexpected component failure. Each head shall have an input voltage range of 12 – 24VDC and a constant power regulation, providing stable illumination during variations of the battery discharge voltage.

The equipment shall have a dual AC input rated 120/347VAC 60Hz and a charger module equipped with micro-controller and solid-state transfer relay. The charger shall perform functions like: AC brownout detection, battery lockout, low voltage battery disconnect, and provide protection against overcurrent, short-circuit, and DC reverse polarity.

Auto-Diagnostic option shall execute automatic tests for one minute every 30 days, 10 minutes every sixth month and 30 minutes every 12 months. In case of functional failure detection the equipment pilot light shall change color from green to red and signal a service alarm with specific flashing codes: battery or lamp disconnect, battery failure, charger failure, lamp failure. A label installed on the cover shall contain the legend with diagnostic codes. The equipment shall come standard with an infrared remote test control.

The equipment shall be rated NEMA-4X for hose down applications. The equipment shall be listed to cUL standards for damp and wet locations.

Certified to CSA C22.2 No.141-15.

Unit shall be **Emergi-Lite®** model: _____.



Power consumption and unit rating

Model	AC specs			Wattage capacity				
	120VAC	277VAC	347VAC	30 min	1H00	1H30	2H00	4H00
1275	0.20A	0.10A	0.07A	75	40	30	24*	15*
24150	0.37A	0.18A	0.12A	150	80	60	48*	30*
1275-CW	0.40A	0.25A	0.15A	75	40	30	24*	15*
24150-CW	0.50A	0.25A	0.20A	150	80	60	48*	30*

*Note: The cold-weather option is only rated for maximum 90 minutes.

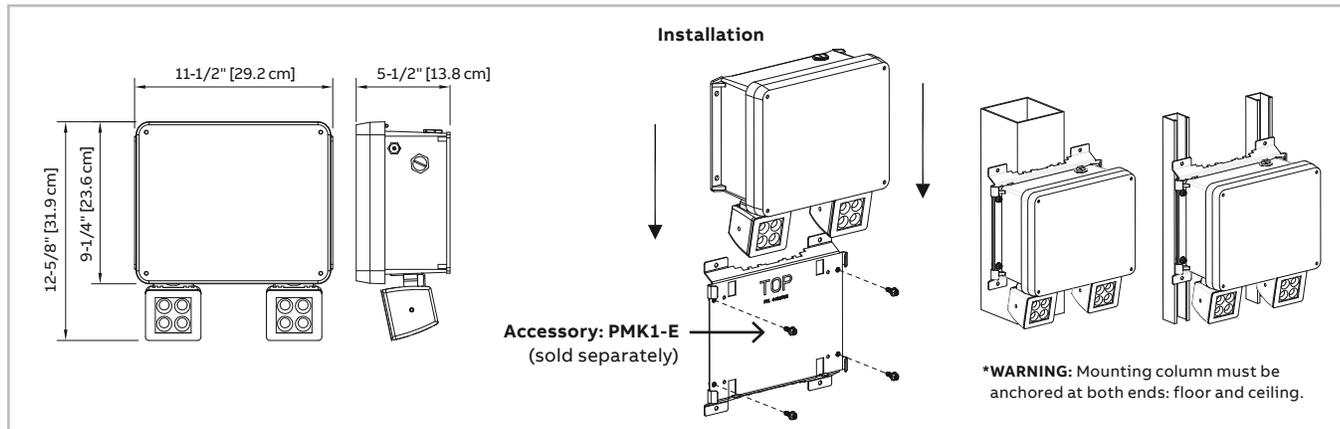
EMERGI-LITE

EHP Series

NEMA-4X rated

Dimensions

Dimensions are approximate and subject to change.



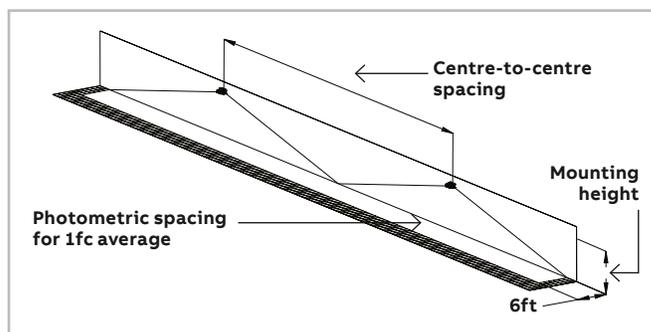
Photometry performance

Whether installed indoors or outdoors, the **EHP Series** of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the application, one may select and specify among three types of performance for the right power consumption, lumen output and cross reference to traditional incandescent emergency lights.

LED lamp	Power (W)	Total lumens	Outperforms the incandescent lamps
L6	6W	565	35W PAR36, MR16 halogen
L10	10W	1030	50W PAR36, MR16 halogen
L15	15W	1320	50W MR16-IR halogen

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6ft wide illumination path. 200 ft X 200 ft X 30 ft space. The illumination level meets all requirements of the NBC; Average: 1fc; Min: 0.1fc.

Mounting height	Spacing centre-to-centre (feet)		
	Lamp L6/6W, 565LM	Lamp L10/10W, 1000LM	Lamp L15/15W, 1300LM
10 ft	80	110	140
15 ft	70	105	135
20 ft	60	100	130
25 ft	50	95	120



Ordering information

Series	Unit capacity	# of heads	LED lamp type	Functions	Options
EHP= high performance battery	1275= 12V-75W 24150= 24V-150W	0= no heads 1= one head 2= two heads	L6= 12V, 24V-6W L10= 12V, 24V-10W L15= 12V, 24V-15W	Blank= no options NEX= NEXUS® wired system interface ¹ NEXRF= NEXUS® wireless system interface ¹ U= auto-diagnostic, audible ¹ UN= auto-diagnostic, non-audible ¹	-2= 277VAC, 60Hz input CW= cold-weather -40°C [-40°F] (120/347V) CW2= cold-weather -40°C [-40°F] (120/277V) D3= time delay (15 minutes) RFI= radio frequency interference filter (120/277VAC) RF3= radio frequency interference filter (347VAC) ¹ PMK1-E= pole mounting bracket (sold separately) ¹ Not available with CW option.

Example: EHP12752L6URFI

BATTERY UNITS

New product

EHZ Series

High-performance unit equipment for hazardous locations

Class I, Div 2, Groups A, B, C & D;

Class II Div 2, Groups F & G,

Class III



Features

- Evaluated to CSA C22.2 No.141-15 and No.137-M1981 for use in hazardous locations: Class I Division 2, Groups A, B, C and D; Class II Division 2, Groups F and G and Class III
- Nema-4X protection grade against liquids and dust
- Fiberglass light-grey housing with captive screws; stainless steel hardware
- High ambient temperature up to 50°C (122°F); optional cold-weather -40°C to 50°C (-40°F to 122°F)
- High-temperature lead-calcium battery
- High-efficacy LED emergency heads outperform traditional 50W halogen lamps.
- Innovative lamp design: four-LED and dual-driver provide illumination even in case of unexpected component failure
- Compact size: 0.46 cubic feet
- Simple and easy to install on walls, columns or struts on vertical position. For installation on columns use mounting bracket catalogue number: PMK1-E (order separately). See warning in installation drawing below
- Standard infrared **remote test control** included in all models: allows to test the equipment without the need to climb a ladder. Functional up to a distance of 30 ft. universal, one remote test control may test all units on the job.
- Optional audible or non-audible auto-diagnostic and auto-test
- Optional Nexus® central monitoring system
- 1-year limited warranty
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-lite® EHZ Series** of battery unit equipment. The unit enclosure shall have a compression-molded fiberglass construction and shall be equipped with a hinged, overlapping cover. The cover shall include a 3/16" wide rubber gasket and shall fasten with two stainless-steel captive screws. The enclosure shall have lateral flanges with holes for easy installation on the wall and shall include two entries for vertical and horizontal conduit and wire access. The installation kit shall include two cable glands of size 1/2" NPT, rated for hazardous locations. The emergency lighting heads shall be installed at the bottom of the cabinet and have the electrical cable passing through the swivel via water-tight bushings. The heads shall be made of die-cast aluminum and have a flat square lens made of UV-stabilized clear polycarbonate. The lens shall be sealed with a rubber gasket and be fixed with an aluminum frame and 6 (six) tamper-proof screws. Each head shall include four (4) LED lamps and two independent LED drivers with electrical connections allowing for lighting even in case of unexpected component failure. Each emergency head shall have an input voltage range of 12 – 24Vdc and a constant power regulation, providing stable illumination during variations of the battery discharge voltage.

When specified, the unit equipment with Auto-Diagnostic option shall execute automatic tests for one minute every 30 days, 10 minutes every sixth month and 30 minutes every 12 months. In case of a functional failure detection: the unit equipment pilot light shall change color from green to red and signal a service alarm with specific flashing codes: battery or lamp disconnect, battery failure, charger failure, lamp failure, or heater failure (cold-weather option). A label installed near the pilot light shall contain the legend with diagnostic codes. The unit equipment shall come standard with an infrared remote test control.

The unit equipment shall be rated NEMA-4X for hose-down applications. The equipment shall be cUL listed to CSA22.2 Standard No.141-15 and No.137-M1981 for hazardous locations: Class I Division 2, Groups A, B, C and D; Class II Division 2, Groups F and G and Class III.

The unit equipment shall be **Emergi-Lite®** model: _____.



Power consumption and unit rating

Model	AC specs			Wattage capacity				
	120VAC	277VAC	347VAC	30 min	1H00	1H30	2H00	4H00
1275	0.20A	0.10A	0.07A	75	40	30	24	15
24150	0.37A	0.18A	0.12A	150	80	60	48	30
1275-CW	0.40A	0.25A	0.15A	75	40	30	N/A*	N/A*
24150-CW	0.50A	0.25A	0.20A	150	80	60	N/A*	N/A*

*Note: The cold-weather option is only rated for maximum 90 minutes.

EMERGI-LITE

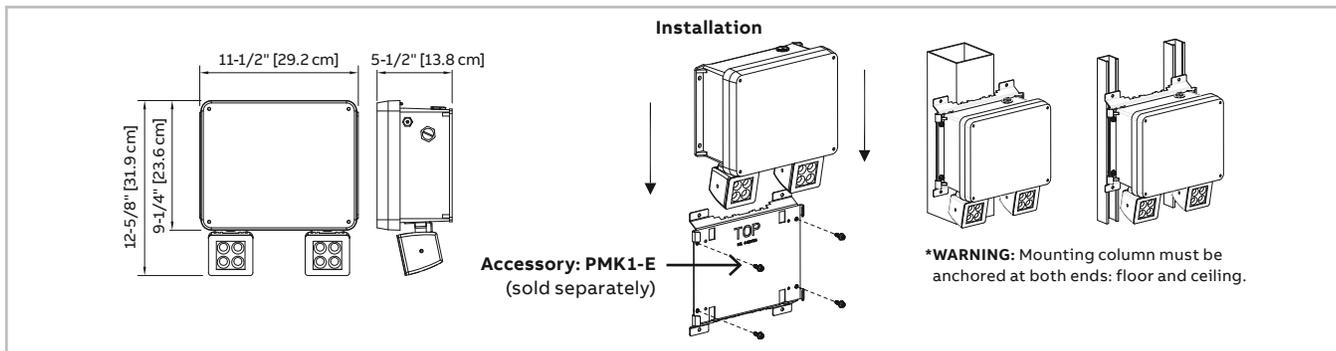
EHZ Series

High-performance unit equipment for hazardous locations

Class I, Div 2, Groups A, B, C & D; Class II Div 2, Groups F & G; Class III

Dimensions

Dimensions are approximate and subject to change.



Classification for hazardous locations	Temperature code		
	Classification	TA= 40°C	TA= 50°C
Type of emergency heads			
L15	Class I Division 2 Groups A, B, C and D	T3C	T3A
	Class II Division 2 Groups F and G; Class III	T5	T5
No heads	Class I Division 2 Groups A, B, C and D	T4A	
	Class II Division 2 Groups F and G; Class III	T6	

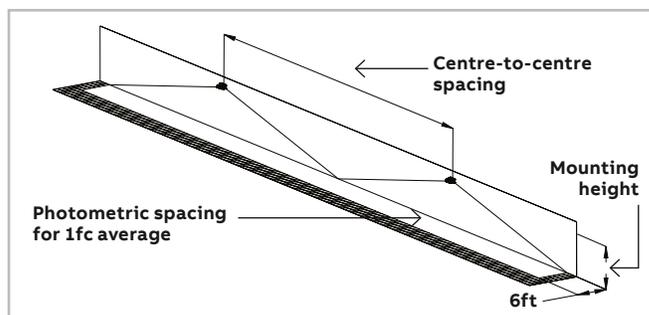
Photometry performance

Whether installed indoors or outdoors, the EHZ Series of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights.

LED lamp	Power (W)	Total lumens	Outperforms the incandescent lamps
L15	15W	1320	50W MR16-IR halogen

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

Mounting height	Spacing centre-to-centre (feet)	
	Lamp L15 / 15W, 1300LM	
10 ft	140	
15 ft	135	
20 ft	130	
25 ft	120	
30 ft	110	



Ordering information

Series	Unit capacity	# of heads	LED lamp type	Functions	Options
EHZ= hazardous locations Cl.I D2, Cl.II D2, Cl.III	1275= 12V-75W; 10°C to 50°C Amb (10°F to 122°F) 24150= 24V-150W; 10°C to 50°C Amb (10°F to 122°F)	0= no heads 1= one head 2= two heads	L15= 12V, 24V-15W	Blank= no auto-diagnostic function NEX= NEXUS® wired system interface ¹ NEXRF= NEXUS® wireless system interface ¹ U= auto-diagnostic, audible UN= auto-diagnostic, non-audible	-2 = 120/277VAC input -15= 120/208/220-240V, 50/60Hz input ¹ CW= Cold-weather, 120/347V, -40°C to 50°C Amb (-40°F to 122°F) CW2= Cold-weather, 120/277V, -40 to 50°C Amb (-40°F to 122°F) D3= Time delay (15 minutes) RF1= Radio frequency interference filter 120- 277VAC RF3= Radio frequency interference filter 347VAC ² PMK1-E= universal mounting bracket (sold separately) Minimum lamp load required: 20% of unit capacity

Example: EHZ12752L15UNCW

¹For more information, please consult your sales representative

¹12V units only, not available with NEXUS® & CW
²Not available with CW option

ESLNX Series

6, 12 and 24V NEMA-4X rated



Features

- Fully gasketed fiberglass reinforced polyester housing - NEMA 4X
- Solid-state pulse-type charger – current – limited, temperature- compensated, short-circuit proof and reverse-polarity protected
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free sealed lead acid battery
- Standard 120/347VAC input voltage
- NEXUS® compatible (for more information on NEXUS®, please consult your sales representative)
- Certified CSA C22.2 No. 141-15
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Wire guards

Ordering code	Description
460.0034-E	Wall mount

Typical specifications

Supply and install the **Emergi-Lite®** NEMA-4X Rated **ESLNX Series** battery unit. The unit shall be specifically designed for high abuse areas and wet locations. The unit enclosure shall be of fiberglass-reinforced polyester and shall include a hinged door, fully gasketed and locked with two corrosion-resistant screws. The emergency head(s) shall be installed at the bottom of the unit and/or at both sides and shall be covered by a UV-resistant polycarbonate cover. The bottom head shall include one or two lamps as specified. The unit shall come with two heads at the sides, each with one LED lamp. The lamps shall be high-efficiency, long-life LED type of: _____ V _____ W as specified. The lamp swivels shall be easily adjustable without tools. The unit enclosure shall include a test switch and a pilot light. The unit shall include sealed, maintenance-free lead-calcium batteries and an electronic module for the battery charger and other emergency lighting functions. The charger shall be computer-tested and its maximum charge voltage set in the factory with $\pm 1\%$ tolerance.

A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery and when the battery is at full capacity, the charger will shut off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The charger shall be current limited, temperature compensated and short-circuit proof. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. When specified, the unit equipped with the **Emergi-Lite®** Auto-Diagnostic feature shall include a micro-controller based charger board that will generate an automatic test for 1 minute every 30 days, 10 minutes every six months and 30 minutes every 12 months.

The micro-controller circuitry shall ensure equipment readiness and reliability by continuously monitoring every critical function of the unit. If a component failure occurs, the pilot light located on the front of the unit will change color from green to red and will flash indicating a fault. A detailed diagnostic legend shall be available next to the pilot light and shall provide fault identification (battery, charger circuitry, lamps) for maintenance personnel. The unit shall be capable of full recharge in compliance with CSA specifications and supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage.

The unit shall be rated 120V or 347V, 60 Hz and shall have an output of: V W.

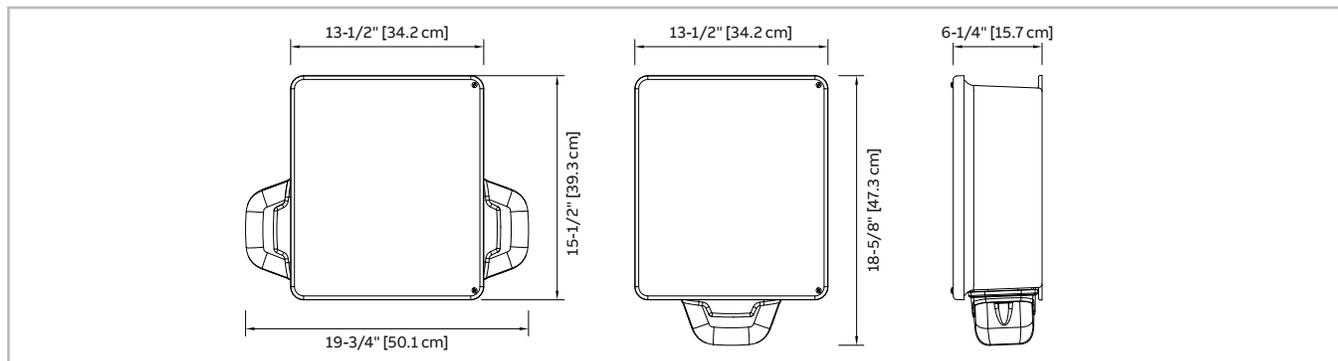
The unit shall be **Emergi-Lite®** model: _____.

ESLNX Series

6, 12 and 24V NEMA-4X rated

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
06ESLNX72	0.22/0.08 A	72	42	30	24	12
06ESLNX108	0.22/0.08 A	108	63	45	36	18
06ESLNX180	0.22/0.08 A	180	105	75	60	30
12ESLNX144	0.40/0.14 A	144	84	60	48	24
12ESLNX200	0.41/0.14 A	200	117	83	67	33
12ESLNX250	120/347VAC 0.41/0.14 A	250	120	90	83	42
12ESLNX360	0.41/0.14 A	360	200	160	120	60
24ESLNX144	0.55 / 0.20 A	144	84	60	48	24
24ESLNX288	0.67 / 0.23 A	288	168	120	96	48
24ESLNX350	0.67 / 0.23 A	350	200	144	120	60
24ESLNX432	0.67 / 0.23 A	432	250	180	140	72

Ordering information

Series	Housing	Capacity	AC voltage	Options	Number of lamps	Lamp wattage
06ESL= 6V	NX= NEMA-4X	72= 72W 108= 108W 180= 180W	-2= 277VAC input Blank= 120/347 VAC input	Blank= no options D3= time delay (15 minutes) NEX= NEXUS® system interface (6, 12 and 24V) ¹ NEXRF= wireless NEXUS® system interface ¹ U= auto-diagnostics ² UN= auto-diagnostics non audible ²	/0= no heads /1= single head bottom, one lamp /1S= single head bottom with single lamp on each side, three lamps /2= double head bottom, two lamps /2S= two head bottom with single lamps on each side, four lamps /S= no head bottom with single lamp on each side	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W LL= MR16 LED, 24V-4W LM= MR16 LED, 24V-6W
12ESL= 12V	NX= NEMA-4X	144= 144W 200= 200W 250= 250W 360= 360W				
24ESL= 24V	NX= NEMA-4X	144= 144W 288= 288W 350= 350W 432= 432W				

¹Not all options available with NEXUS®. Please consult your sales representative.
²Minimum lamp load required: 20% of unit capacity

Example: 06ESLNX72/1LA

HZM Series

Hazardous location battery unit



Features

- Certified Class I Zone 2, Groups IIA, IIB and IIC
- Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M1981
- Certified temperature codes for several types of emergency lamps
- Suited for areas with the risk of flammable gases, vapors or liquids that can create an explosive atmosphere
- Certified CSA C22.2 No141
- Polymeric frame, with built-in gasket to prevent water infiltration
- Heavy-duty 1/8" thick aluminum back plate with keyholes for secure wall-mount installation
- Two LED lamps, shielded by a cast aluminum housing and a polycarbonate cover
- Sealed, maintenance-free, lead-calcium batteries with up to 120W emergency power
- Built-in microcontroller-based battery charger and auto-diagnostics circuitry
- 1/2" electrical conduit entry on both sides and at the top
- NEXUS® compatible (for more information on NEXUS®, please contact your sales representative)
- Advanced diagnostics capabilities (specific load requirements)
- **Warranty details at: www.emergi-lite.ca**

nexus®



Typical specifications

Supply and install **Emergi-Lite® HZM Series** battery units. Designed specifically for Hazardous Location environments, the equipment frame shall be of industrial grade polymeric material with gaskets around both sides of the contour. The frame shall be fixed between two plates made of 1/8" thick aluminum sheet. The back plate shall include four keyholes for wall-mount installation. The front plate shall include two water-tight lenses for pilot lights: AC-on and "Service required". When specified, the equipment shall have attached a lower compartment containing two emergency lights with adjustable swivels and LED lamps. The lamps shall be shielded by a cast aluminum housing and protected by a shock-absorbent, transparent polycarbonate cover.

The equipment shall be certified for hazardous locations: Class I Division 2 Groups A, B, C and D. The standard equipment shall have a dual voltage input: 120/347VAC and shall be equipped with a magnetic test switch located on the left side of the frame.

The unit shall include self-testing/self-diagnostic functions monitored by a micro-controller and shall automatically self test for one minute every 30 days, 10 minutes every 6 months and 30 minutes annually. The "Service required" LED shall light when a fault is detected. A four-LED diagnostic display located inside the equipment shall identify the source of the failure (battery, charger circuitry, lamp load).

The unit shall be listed CSA C22.2 No.141 and No. 137 – M1984
The battery unit shall be **Emergi-Lite®** model: _____ .

Temperature codes

Lamp rating	Temperature code	Maximum temperature	Replacement part number
6V-4W	T4A	120°C	580.0097-E
6V-5W	T4A	120°C	580.0122-E
12V-4W	T4A	120°C	580.0080-E
12V-5W	T4A	120°C	580.0104-E

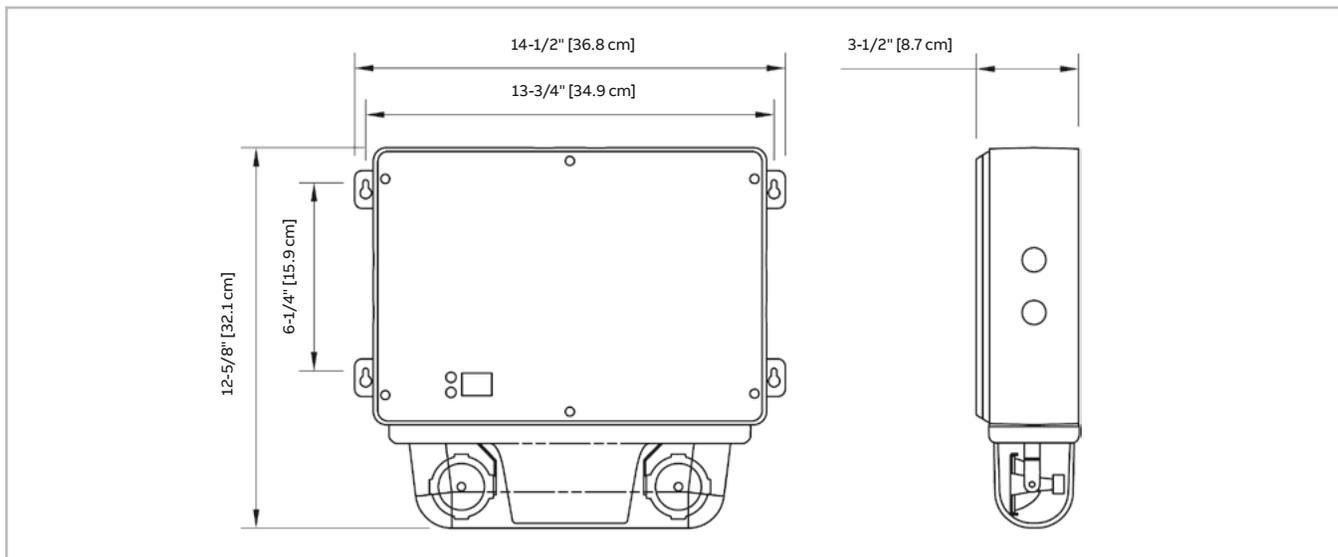
Note: Use qualified replacement lamps to avoid risk of over-heating

HZM Series

Hazardous location battery unit

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity				
		30 min	1H00	1H30	2H00	4H00
HZM36	0.15/0.06 A	36	21	15	12	-
HZM72	0.30/0.10 A	72	42	30	24	12
HZM120	0.30/0.10 A	120	70	50	40	20
HZM150	0.30/0.10 A	150	-	72	-	-

Ordering information

Series	Capacity	Colour	AC voltage	Charger type	# of heads	Lamp/wattage
06HZM= 6V	36= 6V-36W	Blank= grey	-2= 277VAC	NEX= NEXUS® system interface ²	/0= no heads	LA= MR16 LED, 6V-4W
12HZM= 12V	72= 12V-72W		Blank= 120/347VAC	NEXRF= wireless NEXUS® system interface ²	/2= two heads	LB= MR16 LED, 6V-5W
	120= 12V-120W			U= auto-diagnostics, audible ¹		LG= MR16 LED, 12V-4W
	150= 12V-150W			UN= auto-diagnostics (non-audible) ¹		LI= MR16 LED, 12V-5W

Example: 06HZM36UN/2LG

¹Minimum lamp load required: 20% of unit capacity

²Consult your sales representative for options available with the NEXUS® system.

IPE-LEDN Series

IP65 linear LED fixture



Features

- IP65 rated
- Polycarbonate lens and thermoplastic enclosure, vandal resistant and UV stabilized
- Stainless steel hardware
- Ceiling, surface or pendant mounting
- Low profile, less than 4 inch deep
- 0-10V dimming standard on all models
- 120VAC to 277VAC universal, 347VAC optional
- Certified for wet and damp locations
- Expected life of 50 000 hours (L70)
- Power factor > 0.90
- ROHS compliant
- Meets IEEE C.62.41-1991 input transient protection
- Available integral motion sensor
- Optional emergency driver
- 5-year limited warranty
- **Warranty details at: www.emergi-lite.ca**



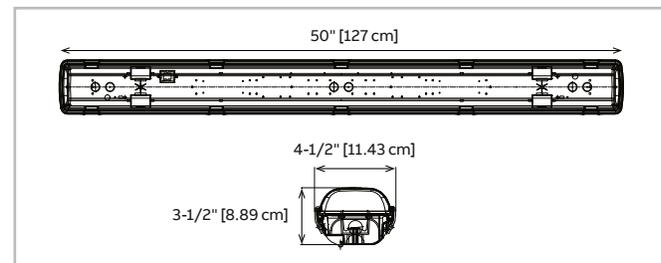
Typical specifications

Supply and install **Emergi-Lite® IPE-LEDN Series** linear LED fixtures as specified. The luminaire shall operate in 120-277VAC or 347VAC and use a high efficiency electronic driver. The lens shall be constructed of UV- stabilized industrial grade vandal-resistant polycarbonate and the enclosure of thermoplastic. A durable formed gasket shall be provided between the enclosure and the lens and shall be designed specifically for hostile environments. A metal plate used to retain the reflector also serves to dissipate heat, therefore lengthening driver life.

The fixture shall be **Emergi-Lite®** model: _____.

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	Colour temperature	CRI	Lumens	Watts	AC specs	Power factor
IPE-LEDN35	3500K	80	4,244	35W	0.28/0.12A	PF > 0.9
IPE-LEDN35	4000K	80	4,550	35W	0.29/0.13A	PF > 0.9
IPE-LEDN35	5000K	80	4,585	35W	0.29/0.13A	PF > 0.9
IPE-LEDN52	3500K	80	6,469	52W	0.43/ 0.18A	PF > 0.9
IPE-LEDN52	4000K	80	6,760	52W	0.43/ 0.19A	PF > 0.9
IPE-LEDN52	5000K	80	6,812	52W	0.43/ 0.19A	PF > 0.9

Ordering information

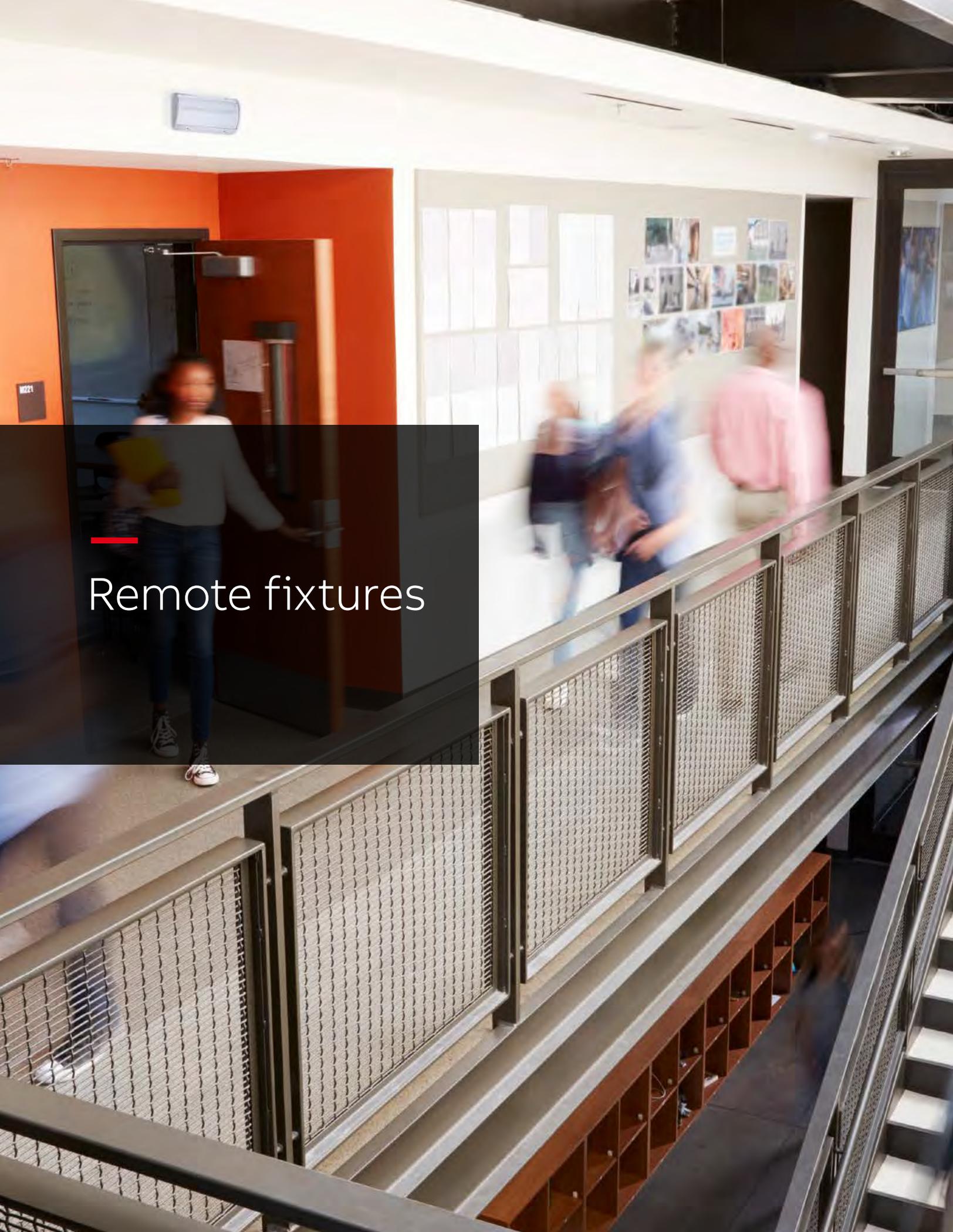
Series	Wattage	Colour temperature	Voltage	Options
IPE-LEDN	35= 35W 52= 52W	-35= 3500K -4= 4000K -5= 5000K	3= 347VAC Blank= AC only 120-277VAC	EM= emergency LED driver ¹ M= motion sensor

Example: IPE-LEDN35-4M

¹120 VAC only

Glossary

A	Ammeter	Used to measure the current being supplied to the battery while in charge mode.
U	Auto-Diagnostics	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) and audible warning. Complies with Fire Code requirements.
UN	Auto-Diagnostics, non-audible	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) warning. Complies with Fire Code requirements.
CT	Cab-tire	Unit supplied with a cab-tire cable used for special hardwire applications.
CW1	Cold weather, 120VAC	120VAC input cold weather protection feature for applications where temperatures can reach -40° C.
CW3	Cold weather, 347VAC	347VAC input cold weather protection feature for applications where temperatures can reach -40° C.
H	Heater & thermostat	Like a heat blanket, used to keep internal temperature optimal for battery units that are installed in cold environments.
L	Line cord (120V)	When ordering a battery unit with the LC option, we supply and pre-install a line cord with a standard 3 prong 120V plug. Just hang the fixture and plug it in to a standard receptacle! Only available on 120V units.
T	Lamp disconnect	To disconnect the emergency lighting load in an area that is not in use during a prolonged power failure or while the area is no longer being occupied.
P	Light activated test switch	Used to remotely test battery units by pointing a flashlight at a photocell mounted on the bottom of a battery unit.
NEX	NEXUS® system interface	The NEXUS® system interface is a computerized maintenance system for emergency lighting that, once programmed, will perform the tests, keep written records and send notification if anything needs to be fixed. One full system can address hundreds of units in as many buildings as you need from a single location.
NEXRF	NEXUS® wireless system interface	The NEXUS® wireless system interface is a computerized maintenance system for emergency lighting that, once programmed, will perform the tests, keep written records and send notification if anything needs to be fixed. One full system can address hundreds of units in as many buildings as you need from a single location.
D3	15 minutes time delay	Normally, when the A.C. is restored, all emergency lighting lamps are turned off. However, in some cases such as when metal halide lamps are used, it is possible that the general lighting will not be available for several minutes after the blackout (or brownout) period. Battery units with the T3 option will keep some energy in store to ensure that the emergency lighting stays on or comes back on for at least 15 minutes once the regular A.C. power has been restored.
TP	Tamper-proof screws	Screws that require a special bit. Can be used on certain units to deny access to unauthorized personnel.
LW	Twistlock plug	Used to facilitate the connection and removal of battery units for maintenance purposes.
TBACDC	AC/DC terminal block	Used to facilitate the connection of large gauge input cables.
TB	DC terminal block	Used to facilitate the connection of large gauge D.C. input cables.
TBAC	AC terminal block	Used to facilitate the connection of large gauge A.C. input cables.
V	Voltmeter	Indicates voltage being supplied to the battery when in charge mode.
CPS3	Constant power supply	Supplies 24 VDC-3 amp output for exit signs, fire doors, automatic lock, etc.
RFI	Radio frequency interference	The radio frequency interrupter protects equipments from external radio frequency interference.
ZCB	Voltage sensing relays	Voltage sensing relays pre-used to detect the loss of lighting in a specific area and activate the emergency lighting.



Remote fixtures

Table of contents

Remote fixtures

					
Introduction 146	ERAUR Series 148	ERL Series 150	Lux-Ray™ LED Series 152	Literay Series 154	Retract-a-Lite™ Series 155
					
Mini Retract-a-Lite™ Series 156	EF26/EF26D/ EF26DS Series 158	Distinction™ Surface Designer Series 159	Distinction™ EFR Series 160	EF9M Series 161	EF9-BLD Series 162
					
	CM-R Series 163	EF40 & EF40P Series 164	Survive-All™ EF39 & EF39P Series 165	EHPRL Series 166	
					
		EF41 Series 168	EHZRL Series 169	EFXPR LED Series 170	

 = New product

Remote heads overview

Emergency lighting heads represent a key element of an emergency lighting system performance. During a power failure, these lamp heads must provide adequate lighting levels for safe evacuation. The emergency power supply is provided to the heads from batteries. Equipment manufacturers and customers should use high intensity light sources, with efficient light levels and distributions.

MR16 LED

We offer a complete series of MR16 LED lamps available for all standard battery voltages: 6V, 12V, 24V and 120V. With up to 30,000 hours of operational life and a luminous flux of typically ranging from 200 up to 590 lumens, these LED lamps are available with most emergency heads designed to hold MR16 lamps and meet most illumination specifications. For example, one pair of LED emergency heads installed at a height of 7.5ft, could illuminate a 6ft path of egress during an emergency by using 75% less power. Consequently, the use of smaller battery capacity units and fewer fixtures due to superior illumination, means reducing the amount of electrical wiring and your environmental footprint.

MR16 LED lamps

Application	Voltage (V)	Wattage (W)	Average life (Hrs)	Lumen	Efficacy (LM/W)
Emergency lighting	6	4	30,000	199	49.8
Emergency lighting	12	4	30,000	220	55.0
Emergency lighting	24	4	30,000	220	55.0
Emergency lighting	120	5	30,000	204	51.0
Emergency lighting	12	6	30,000	340	68.0
Emergency lighting	12	6	30,000	540	90.0
Emergency lighting	24	6	30,000	590	98.3



New product

ERAUR Series

Remote recessed architectural fixture



Features

- Recessed installation in T-bar suspended ceiling and easily spring mounted in Gyproc ceiling
- All-metal backbox enclosure
- Housing rated for plenum or insulated ceilings (IC)
- Thermoplastic rectangular fixture with additional round trim-plate, white finish
- Black thermoplastic decorative trim-plates
- Two-wire universal input
- Fixed optics, optimized light distribution for ceiling heights of eight to 12 ft
- Fixed, square distribution pattern
- Four high-intensity LED sources with redundant connections; CCT 5000K
- Listed NSF, splash non-food zones
- Certified cUL to CSA 22.2 No.141-15
- **Warranty details at: www.emergi-lite.ca**

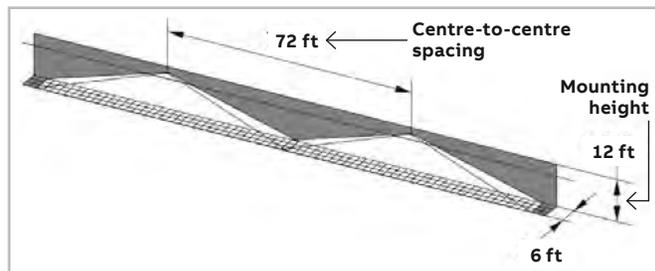


Photometry performance

The ERA Series has a fixed lighting distribution, optimized by design for ceiling heights up to 12 ft. Along an office corridor the space coverage ranges from 68 to 80 feet. The square distribution pattern option covers a surface of more than 700 square feet.

Table A: Standard unit 6-ft wide corridor¹

Mounting height	Spacing centre-to-centre
9 ft	68 ft
10 ft	80 ft
12 ft	72 ft



Suggested specifications

Supply and install the ERAUR Series of recessed emergency lighting unit from Emergi-Lite®. The unit construction shall include an all-metal housing and a thermoplastic rectangular trim-plate with a detachable circular trim ring for choice of aesthetics. The optics shall be an impact-resistant polycarbonate lens with fixed light distribution, optimized for ceilings of 8 to 12-ft height. The housing shall include an isolated compartment for electrical connections and a detachable cover with knockouts for electrical supplies. The unit shall include a hardware kit for installation in T-bar suspended ceilings.

The emergency lights shall be four high-intensity LED with operational life of minimum 36,000 hours, until 70% of the initial light level (reported L70). The LEDs shall have redundant interconnections: eventual failure of one of them shall allow others to function.

The unit shall be cUL certified to CSA 22.2 No.141-15

The unit shall be Emergi-Lite® model: _____.

Power consumption and unit rating

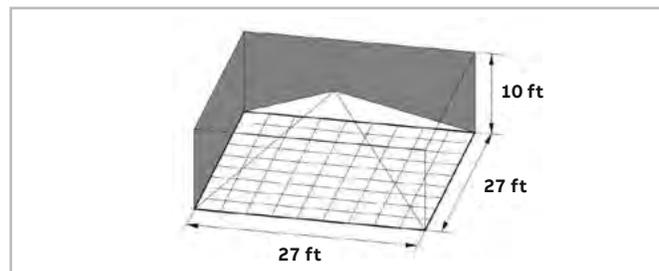
Input (VAC)	Input current (A)	Input power (W)	Power factor
AC2			
120	0.060		
240	0.030	7.0	0.95
277	0.025		

Input voltage (VDC)	Input power (W)
DC	
6-24	6.5

Table B: Option "square distribution pattern" – single unit coverage¹

Mounting height	Room size	Room surface
10 ft	27 ft x 27 ft	729 square feet

¹Typical reflectance levels of walls/ceiling/floor: 80/50/20



Housing colour

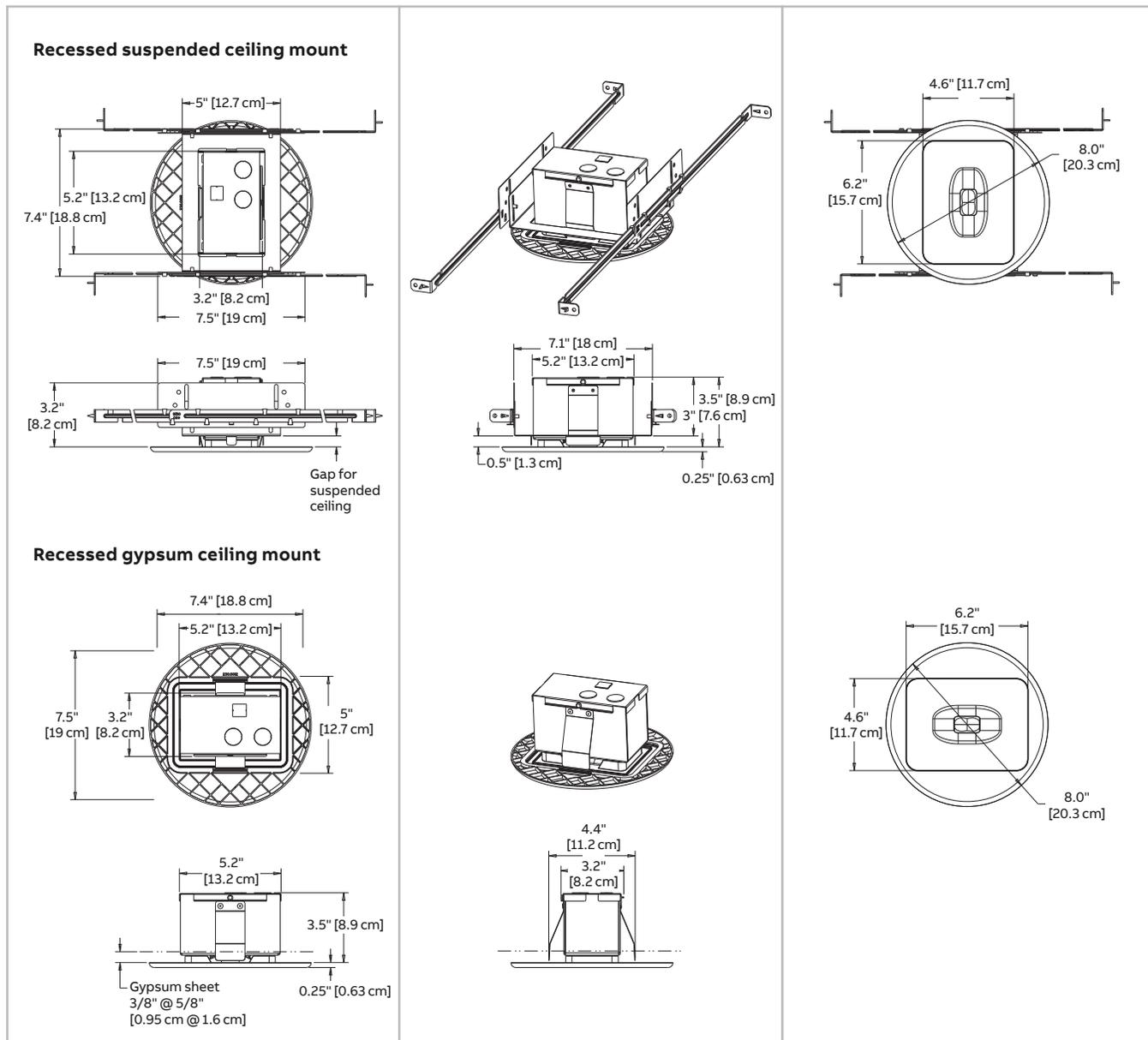


ERAUR Series

Remote recessed architectural fixture

Dimensions

Dimensions are approximate and subject to change.



REMOTE FIXTURES

Ordering information

Series	Colour	Voltage	Options
ERAUR= remote recessed architectural fixture	BK= black WH= factory white	AC2= 120 to 277VAC 50/60Hz DC= 6 to 24VDC	Blank= no options P= plenum/type IC rated SQ= square distribution pattern

Example: ERAURWHDC

New product

ERL Series

Vandal resistant linear remote fixture



Features

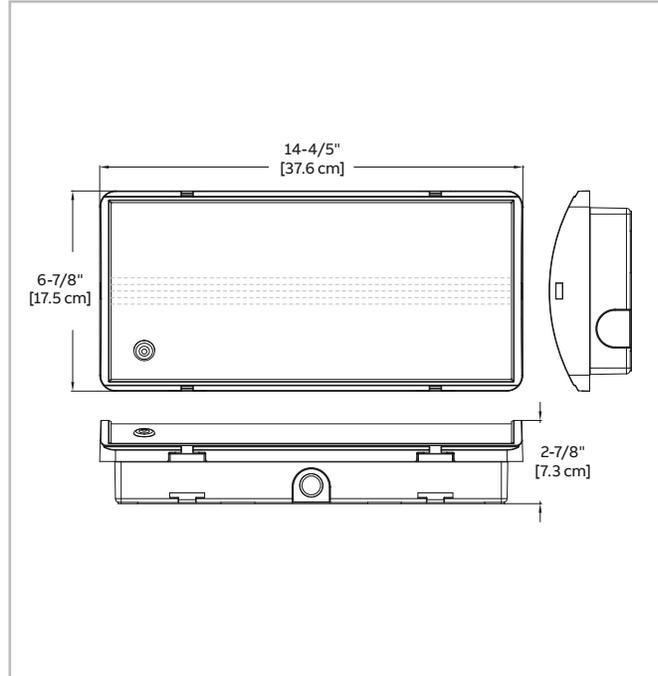
- Easily adjustable LED strips for multiple beam angles
- 1200-1300 lumen output
- White high impact thermoplastic housing
- Frosted lens
- Impact tested to meet IK10¹
- Standard surface ceiling and wall mount
- Optional accessory: semi-recessed ceiling mount
- Compatible with Emergi-Lite® 12 and 24 volt battery units
- Universal voltage 120V through 347V 60Hz, 12-24VDC
- Rated for -20°C to 45°C
- Suitable for wet locations
- Meets IP65 rating
- ROHS compliant
- cUL approved to CSA C22.2 No, 141-15
- **Warranty details at: www.emergi-lite.ca**

¹IK ratings refer to impact tests. IK10= Protected against 20 joules of impact (equivalent to 5KG of mass dropped from 40cm high)



Dimensions

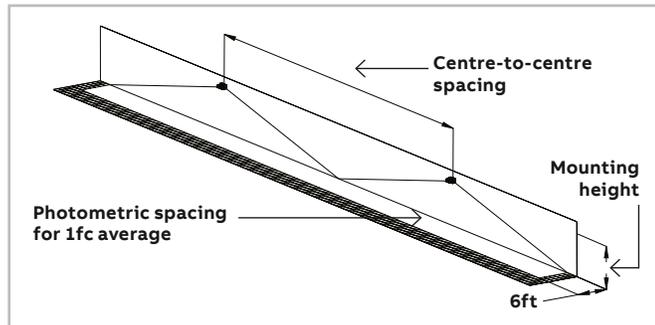
Dimensions are approximate and subject to change.



REMOTE FIXTURES

Spacing

Mounting type	Spacing at 9ft mounting	Lumens
Ceiling mount	62'	1300
Wall mount	53'	1200



Power consumption

	Voltage	Wattage
AC	120-347VAC	14 watts
DC	12-24VDC	13 watts

Accessories (order as a separate item)

Description	Ordering code
Semi recessed mounting bracket	KIT-SR-E

Ordering information

Series	
ERL= remote linear	-ACDC= ACDC 120-347VAC, 12-24VDC

Example: ERL-ACDC



Lux-Ray™ LED Series

Remote fixture rugged, versatile, sophisticated



Features

- Four-LED light engine with redundant connections
- Powder-coated die-cast aluminum construction
- Clear polycarbonate lens allows for maximum lumen output
- Surface wall mount
- Certified to the CSA 22.2 No.141-15 standard
- NEMA-3R damp and wet locations
- Operating temperature -40°C to + 50°C

Options

- Forward-throw light distribution
- Dual-mode: normal and emergency LED lighting
- High-lumen output
- Photo-switch: dusk-to-dawn control of normal lighting
- Infrared remote control (normal lighting)
- **Warranty details at: www.emergi-lite.ca**



Photometric performance

Table A: Spacing for average 1fc/ National Building Code, Canada

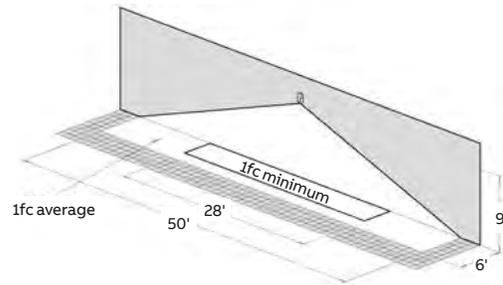
Model	Mounting height	Wattage capacity	
		Single	Centre-to-centre
Standard	9'	6' X 50'	6' X 50'
With option -H	11'	6' X 60'	6' X 60'
With option -FT	12'	6' X 40'	3' X 70'
With option -FTH	15'	6' X 50'	-

Indoor reflectance: 80/50/20 and 10-ft wide corridor.
Outdoor reflectance: 0/30/10

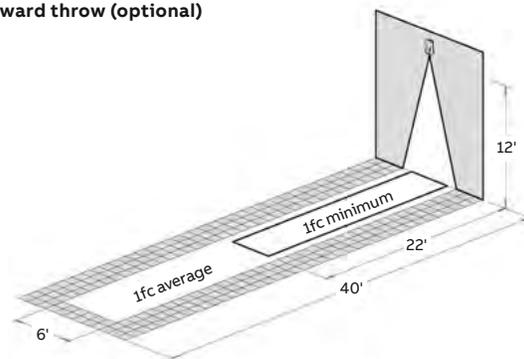
Note: The illumination level meets ALL the requirements of the National Building Code-Canada and the Life Safety Code (NFPA 101):

- 1) Average of 1 foot-candle (10.7 lux) or more
- 2) Minimum at any point of 0.1 foot-candle (1.07 lux) or more
- 3) Maximum-to-minimum illumination uniformity ratio of 40:1 or less

Wide beam (standard)



Forward throw (optional)



Housing colour



Black



Dark bronze (painted)



Off white



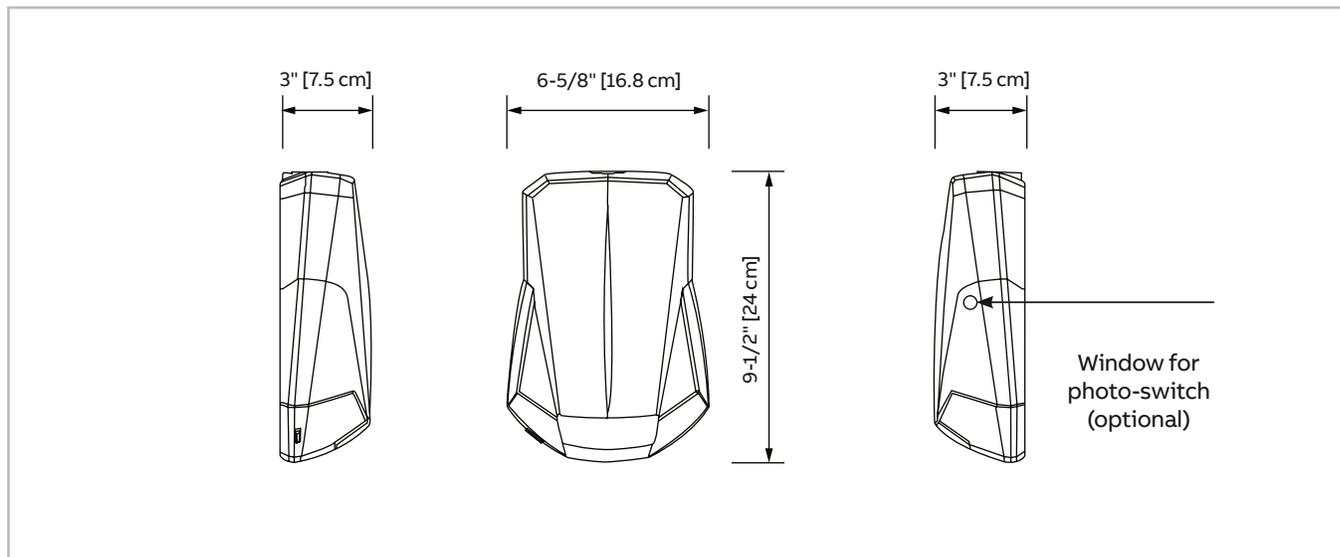
Platinum grey

Lux-Ray™ LED Series

Remote fixture rugged, versatile, sophisticated

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model type	AC specs: 120/347VAC				6-12VDC remote Power (max)
	Normal lighting		Emergency lighting		
	Current (max)	Power (max)	Current (max)	Power (max)	
ACSD, SD, SD-H	0.12/ 0.05 A	12W	0.05/0.02 A	5W	
SD-CW	-	-	0.16/0.06 A	16W	NiMH battery
ACSD-CWP, -CW-RC		N/R ¹	0.24/0.10 A	24W	

¹Note: Only unswitched AC input; normal lighting with photo-switch or remote control

Ordering information

Series	Function: remote fixtures (-40... +50°C)	Colour	Options
LUX= Lux-Ray™ LED		BK = black BZ = dark bronze OW = off white PG = platinum grey	-2 = 277VAC 60Hz input -FT = forward throw lighting -H = high lumen output (max. 30°C) -P = photo-switch, normal lighting (models AC, ACDC only) -RC = remote control - infrared (models AC, ACDC only) ¹

Example: LUXACDCBK-H-P

¹Remote control keypad (TB-RC1-E) ordered separately.

Literay Series

Wall mounted remote head



Features

- Outdoor/Indoor installation
- Compact wall sconce unit for indoor and outdoor use
- High impact resistant polycarbonate diffuser
- Adjustable lamps
- Die-cast aluminum housing
- Vandal resistant option
- CSA certified to C22.2 No. 141
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Wall mount unit shall be gasketed die-cast aluminum housing, impact resistant polycarbonate diffuser. The lamps shall be adjustable for aisle or area distribution.

Fixture shall be supplied with gasket and shall be suitable for installation on any four inch octagonal box.

The remote unit shall be **Emergi-Lite®** model: _____.

Wire guards

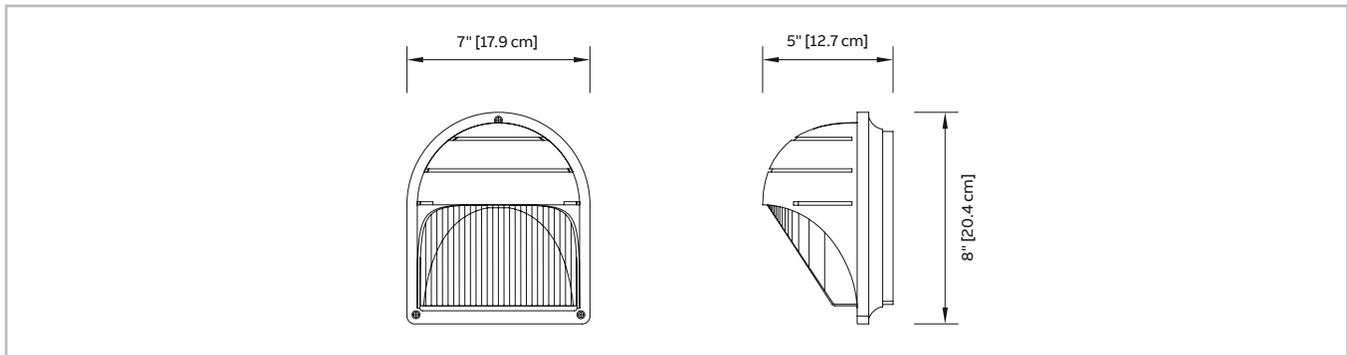
Ordering code	Description
460.0082-E	Wall mount

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W
580.0095-E	MR16 LED	120V-4W

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Lamp type	Colour	Voltage/wattage	Options
EF33= exterior remote	M= MR16	Blank= factory white -B= black -G= dark grey	Blank= no lamps -LA= 2X MR16 LED, 6V-4W -LB= MR16 LED, 6V-5W -LG= 2X MR16 LED, 12V-4W -LI= 2X MR16 LED, 12V-5W -LJ= 2X MR16 LED, 12V-6W -LL= 2X MR16 LED, 24V-4W -LM= 2X MR16 LED, 24V-6W -LW= 2X MR16 LED, 120V-4W	-C= clear lens -VR= vandal resistant screws

Example: EF33M-LJ

990.0119-E= tamper-proof bit
(sold separately)

Retract-a-Lite™ Series

Remote fixture



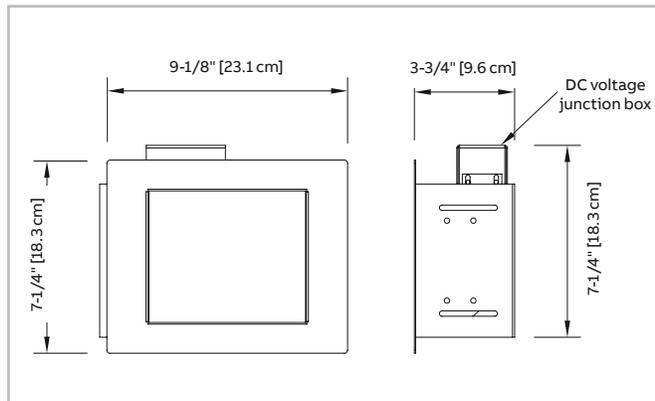
Features

- Remote only visible upon power failure
- Front can be painted or wallpapered on-site to match existing decor
- Fully automatic operation: The unit door opens upon supply with DC voltage from battery and closes after voltage disconnect. Time delay option required on battery unit to properly close the door
- AC line voltage not required
- Emergency lights: Two high efficacy LED lamps
- Certification: CSA C22.2 No.141
- **Warranty details at: www.emergi-lite.ca**



Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Supply and install **Emergi-Lite® Retract-a-Lite™ Series** of remote fixture: The unit shall be designed to be concealed in walls or ceilings with a cavity. The unit equipment shall be completely concealed in the wall or ceiling in the absence of remote power. Upon DC power supply the unit will rotate its door by 180° to expose the emergency lamps, and power them. After the DC power disconnect the lamps will turn off and the unit will conceal the heads by rotating the door by 180°.

The DC-remote unit shall not require the presence of AC power in order to open or close the door.

Under normal conditions, the only visible parts of the unit shall be the off-white flat door and trim plate that can be customized on site with paint or other suitable wall covering. The light source shall be LED lamps of specified wattage and light output.

The remote unit shall be the **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0082-E	Wall mount

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Ordering information

Series	Wattage for each of the 2 lamps	Options
12RTL = 12VDC remote ¹	-LG= 2x MR16 LED, 12V-4W	TB = T-bar mounting kit
24RTL = 24VDC remote ²	-LI= 2x MR16 LED, 12V-5W	
	-LL= 2x MR16 LED, 24V-4W	
	-LJ= 2x MR16 LED, 12V-6W	
	-LM= 2x MR16 LED, 24V-6W	

¹The remote fixture is compatible with all Retract-a-Lite™ battery units.

²12V-24V battery unit must include the time delay function & exclude diagnostic to close door: consult factory for details.

Example: 12RTL-LGTB

Mini Retract-a-Lite™ Series

For AC power generator



Features

- Easy to retrofit in finished walls: the unit slides in through an 8.25" by 5.75" hole
- No back-box needed to pre-install
- Output: 12VDC with up to 100W of power
- Direct connection to 120 or 347VAC power generators
- Emergency lights: MR16 LED lamps
- Certification: CSA C22.2 No. 141
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

Supply and install **Emergi-Lite® Mini Retract-a-Lite™ Series**. The unit shall be designed to be completely concealed in walls with a cavity. The equipment shall consist of a metal housing containing two modules joined by a flexible bracket and electric conduit. One module contains the power transformer and electrical connection box; the other module contains the emergency lights installed on the back of a door able to rotate several turns of 360°. The unit equipment shall be completely concealed in the wall, after the installation through a rectangular opening not larger than 8.25" by 5.75". In stand-by mode, the only visible parts of the unit shall be the off-white flat door and trim plate that can be customized on site with paint or other suitable wall covering. Upon AC power supply the unit will expose the emergency heads by rotating its door 180° and then will power the lamps. At the end of the AC power, the lamps will turn off and the unit will retract the heads by rotating the door 180° in the same direction.

The unit shall not require the presence of AC power in order to close the door and conceal the lights. The door of the unit shall be easy to force-turn (open or close) by hand. The light source shall be 12V MR16 LED lamps of specified wattage and light output.

The remote unit shall be **Emergi-Lite®** model: _____ .

Replacement lamps

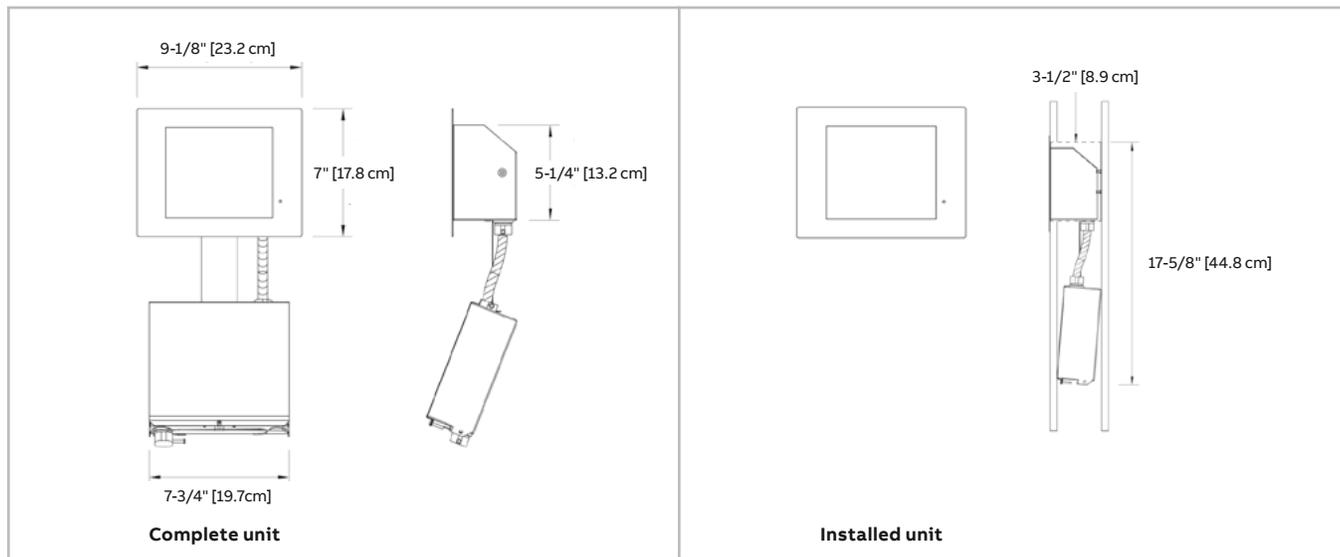
Model	Lamp type	Voltage/wattage
580.0093-E	MR16 LED	12V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Mini Retract-a-Lite™ Series

For AC power generator

Dimensions

Dimensions are approximate and subject to change.



Power consumption and unit rating

Model	AC specs	Wattage capacity			
		30 min	1H00	2H00	3H00
MRG1	120VAC Max. 0.95 A				
MRG2	277VAC Max. 0.45 A		Maximum 100W load		
MRG3	347VAC Max. 0.35 A				

Ordering information

Series	Unit capacity	AC voltage	Lamp wattage
MR	G= remote AC generator, maximum 100W	Blank= 120VAC 2= 277VAC 3= 347VAC	/LG= 2x MR16 LED, 12V-4W /LI= 2x MR16 LED, 12V-5W /LJ= 2x MR16 LED, 12V-6W

Example: MRG/LJ

Note: Testing requires minimum 5 seconds of power supply.

EF26/EF26D/EF26DS Series

Surface mount remote fixtures

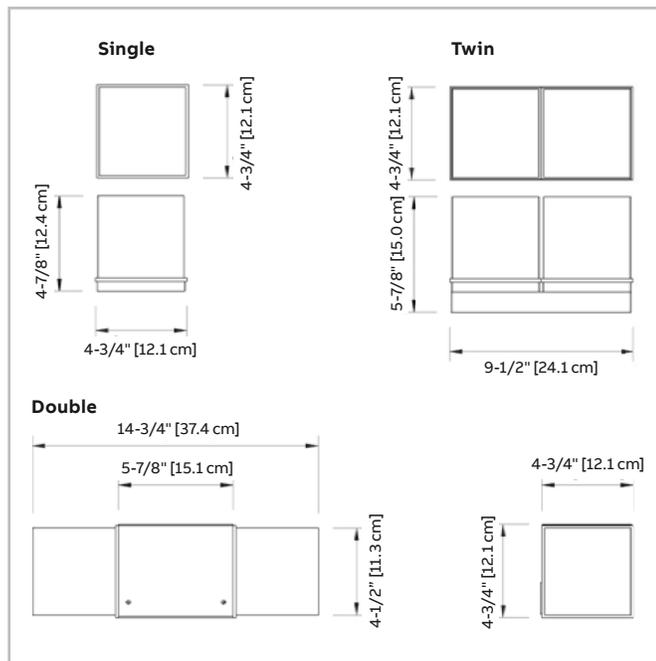


Features

- Cubic, vandal-resistant surface-mounted fixture
- Single, twin or double cube with center body
- Frosted polycarbonate cube
- CSA certified to C22.2 No. 141
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Remote heads **EF26/EF26DS/EF26D Series** shall be comprised of one (single) or two (double or twin) 12W adjustable heads with LED lamps. Each lamp shall be housed in an impact-resistant polycarbonate cube. The cube lens shall be frosted to diffuse the light.

Heads shall provide mounting holes for installation on a standard octagonal box.

The remote unit shall be the **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0035-E	Wall mount (EF26)
460.0031-E	Wall mount (EF26D)
460.0032-E	Wall mount (EF26DS)

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W
580.0113-E	MR16 LED	120V-4W

In the same family



DEL Series

Housing colour



Ordering information

Series	Lamp style	Colour	Options	Lamp style/wattage
EF26= single cube	M= MR16	B= black	Blank= no options	-LA= MR16 LED, 6V-4W
EF26D= double cube		Blank= factory white	TP= tamper-proof screws ¹	-LB= MR16 LED, 6V-5W
EF26DS= twin cube				-LG= MR16 LED, 12V-4W
				-LI= MR16 LED, 12V-5W
				-LJ= MR16 LED, 12V-6W
				-LL= MR16 LED, 24V-4W
				-LM= MR16 LED, 24V-6W
				-LW= MR16 LED, 120V-4W

Example: EF26M-LL

¹690.0454-E= tamper-proof bit (sold separately)

Distinction™

Surface designer series

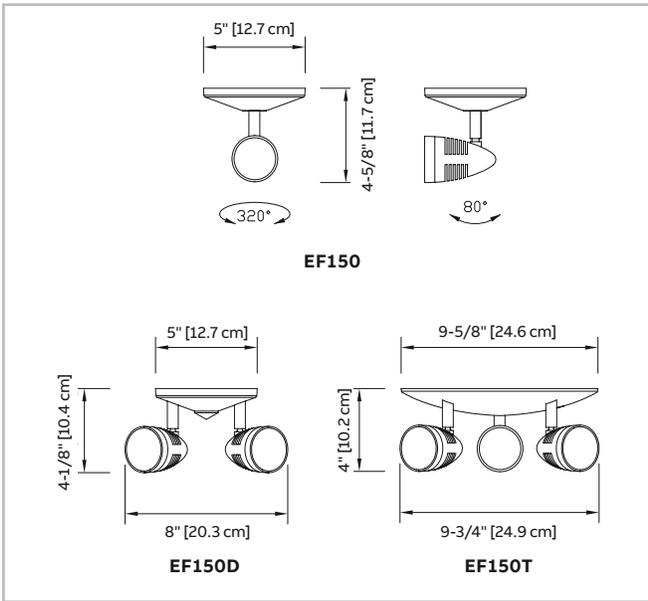


Features

- Contemporary, enduring design
- Available in 1, 2 or 3 head configurations
- Highly resistant powder-coated, die-cast aluminum construction
- LED lamps: 4W, 5W and 6W
- CSA certified to C22.2 No. 141-15
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

The contractor will supply and install **Emergi-Lite® Distinction Series** remote heads. These remote heads will consist of either single, double or triple head configurations according to the design. remote heads will be constructed of durable powder coated, die-cast aluminum and use LED light sources. The remote fixtures shall be certified to CSA C22.2 No.250. The unit shall be **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0029-E	Wall mount (EF150)
460.0032-E	Wall mount (EF150D)
460.0078-E	Wall mount (EF150T)

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0095-E	MR16 LED	120V-4W
580.0113-E	MR16 LED	120V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Housing colour



Ordering information

Series	# of heads	Colour	Voltage/wattage
EF150= closed	Blank= one head D= two heads T= three heads	Blank= white -B= black	-LAC= MR16 LED, 6V-4W -LBC= MR16 LED, 6V-5W -LGC= MR16 LED, 12V-4W -LIC= MR16 LED, 12V-5W -LLC= MR16 LED, 24V-4W -LJC= MR16 LED, 12V-6W -LMC= MR16 LED, 24V-6W -LWC= MR16 LED, 120V-4W

Example: EF150-LAC

REMOTE FIXTURES

Distinction™ EFR Series

Recessed designer series



Typical specifications

The contractor will supply and install **Emergi-Lite® Distinction™ Collection** recessed heads and housing. Recessed heads will be constructed of durable powder coated metal and use LED lamps. The light source will be _____ V, _____ LED or otherwise specified.

The remote unit shall be **Emergi-Lite®** model: _____ and the housing shall be **Emergi-Lite®** model: _____

Features

- Contemporary, enduring designs
- 4W, 5W and 6W lamps
- LED light source
- Will blend in with regular decorative recessed fixtures
- Choice of housing for new construction or insulated ceiling
- EFR8R is made of powder coated or electro-plate steel
- EFR9 is made of die-cast aluminum
- **Warranty details at: www.emerji-lite.ca**



Back boxes

Model	Application	Construction
EG-GRHR03	Non-insulated ceiling 6-24V	New construction
EG-GRHR04	Non-insulated ceiling 6-24V	Renovation
EG-GRHR05	Non-insulated ceiling 120V GU10	New construction
EG-GRHR06	Insulated ceiling 120V input output GU	New construction

Replacement lamps

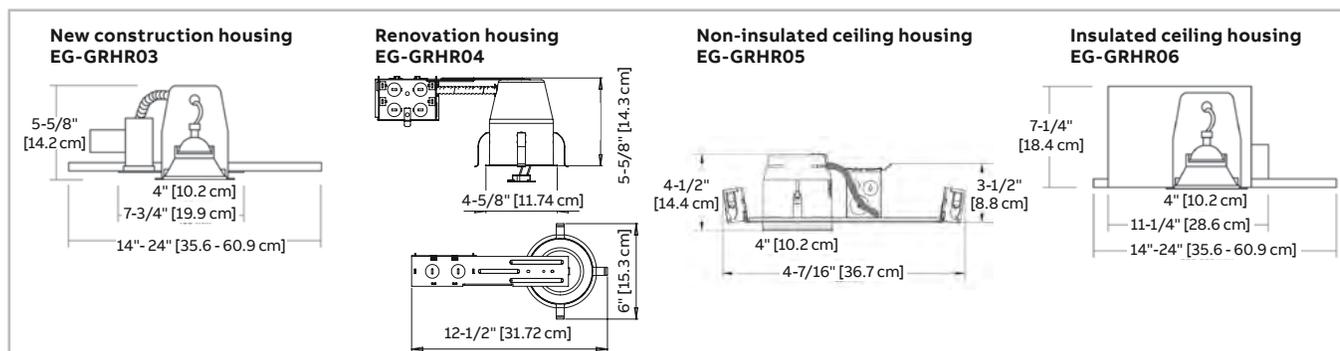
Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W
580.0095-E	MR16 LED	120V-4W

LED compatibility chart

Head style	6V-4W	12V-4W	24V-4W	12V-5W	12V-6W	120V-4W
EFR8R	X	X	X	X	X	X
EFR9	X	X	X	X	X	X

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Head style	Colour	Voltage/wattage	Options
EFR= decorative recessed remote	8R= concave (tilting round rear load) 9= concave (egress/regress)	BK= black BN= brushed nickel 8R series only WH= white	-LAC= MR16 LED, 6V-4W -LBC= MR16 LED, 6V-5W -LGC= MR16 LED, 12V-4W -LIC= MR16 LED, 12V-5W -LJC= MR16 LED, 12V-6W -LLC= MR16 LED, 24V-4W -LMC= MR16 LED, 24V-6W -LVC= MR16 LED, 120V-4W ¹	PM= complete with pendant mount backbox ¹

Example: EFR8RBN-LAC

¹Available only with EL-GRHR05 housing

¹Pendant kit sold separately

EF9M Series

LED

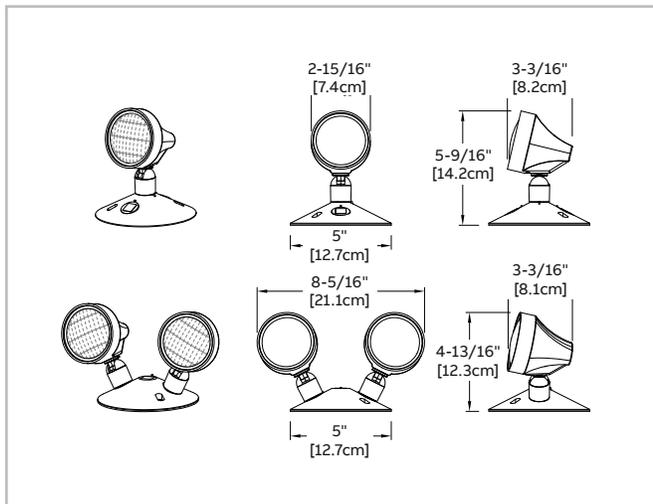


Features

- Fire-retardant thermoplastic
- 300° rotation
- CSA certified to C22.2 No. 141
- 6, 12 and 24V with various wattages
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Lamp head and stem shall be injection molded, impact resistant, flame retardant thermoplastic and shall require no tool for aiming or adjustment. The lens shall be inverse concave design and fully adjustable for aisle or area distribution during installation without the need to energize the lamp. Visual identification of distribution shall be provided through position of adjustment pins.

Fixture shall be supplied with a canopy for installation on any four inch octagon box. Housing shall be designed to allow for lamp replacement if required.

The remote unit shall be the **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0029-E	Wall and ceiling mount

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

Housing colour



Ordering information

Series	Number of lamps	Lamp type	Colour	Voltage/wattage
EF9= mini, PAR 18	Blank = single head D = double head T = triple head	M = MR16 LED	-B = black Blank = factory white	-LA = MR16 LED, 6V-4W -LB = MR16 LED, 6V-5W -LG = MR16 LED, 12V-4W -LI = MR16 LED, 12V-5W -LJ = MR16 LED, 12V-6W -LL = MR16 LED, 24V-4W -LM = MR16 LED, 24V-6W

Example: EF9M-LM

New product

EF9-BLD Series

“Built-in” micro LED lamps remote fixture



Features

- 6 to 12V, 3W LED each head
- Fire-retardant thermoplastic
- 300° rotation
- CSA certified to C22.2 No. 141
- **Warranty details at: www.emergi-lite.ca**

Typical specifications

Lamp head and stem shall be injection molded, impact resistant, flame retardant thermoplastic.

Fixture shall be supplied with a canopy for installation on any four inch octagon box.

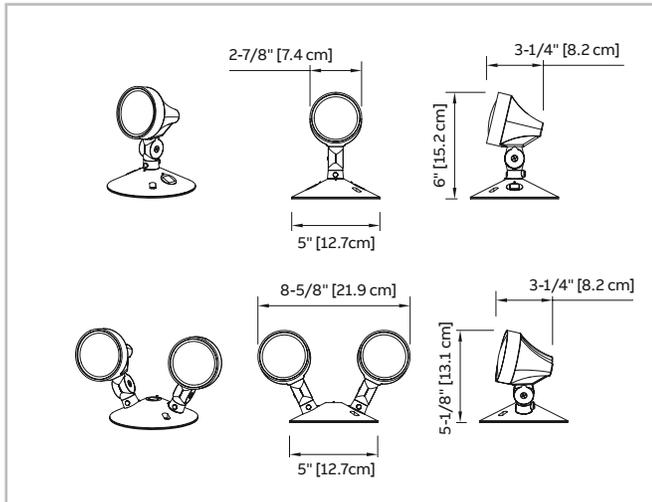
The remote unit shall be the **Emergi-Lite®** model: _____.

Wire guards

Ordering code	Description
460.0029-E	Wall and ceiling mount

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Number of heads	Lamp type
EF9= Plastic built-in LED	Blank= Single head D= Double heads	BLD= Plastic built-in LED, 6V / 12V, 3W each

Example: EF9D-BLD

New product

CM-R Series

Dedicated indoor LED remote fixtures



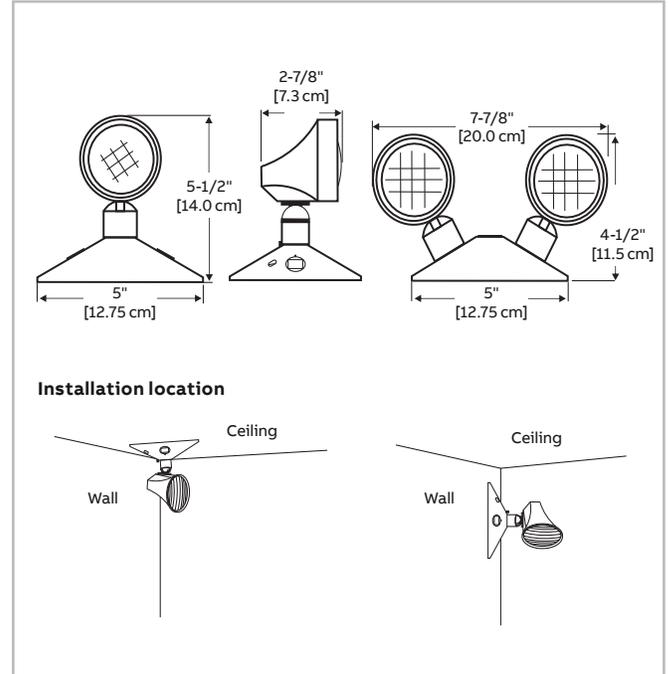
Features

- **Compatible only with CM-SB steel battery and CM-SC steel combo series**
- Thermoplastic housing
- 2W LED head
- Single or double configurations
- Ceiling or wall mount installation
- Adjustable swivel locks the head in position
- CSA C22.2 no.141-15 certified
- **Warranty details at: www.emergi-lite.ca**



Dimensions

Dimensions are approximate and subject to change.



REMOTE FIXTURES

Ordering information

Series	Number of heads	Lamp type/wattage	Brand
CM-R	1= Single 2= Double	Blank= 2W LED	-E= Emergi-Lite®

Example: CM-R1-E

EF40 & EF40P Series

Remote fixture

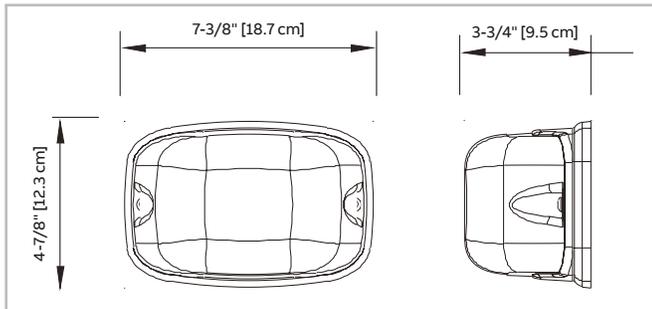


Features

- Quality illumination requires fewer fixtures
- Clear polycarbonate UV and impact resistant lens with optional tamper-proof screws to prevent tampering.
- Easy lamp replacement
- Modern design will blend into surroundings
- Selection of die-cast or polycarbonate back plate
- For indoor use only
- CSA certified to C22.2 No. 141-15
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Supply and install **Emergi-Lite® EF40P Series** remote emergency lighting. These remote fixtures will consist of either single or double lamp configurations as specified and include a UV resistant fire retardant polycarbonate back plate and a clear heavy-duty UV resistant polycarbonate light cover. The remote fixture shall be certified to CSA C22.2 No. 141.

The head(s) shall be fully adjustable and be equipped with high efficiency LED lamp(s) of _____ V, _____ W.

The remote unit shall be **Emergi-Lite®** model: _____ .

Wire guards

Ordering code	Description
460.0029-E	Wall mount

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W
580.0113-E	MR16 LED	120V-4W

Housing colour



Ordering information

EF40P Series	Number of lamps	Lamp type	Colour	Lamp type/voltage/wattage	Options
EF40P= polycarbonate	Blank= one lamp D= two lamps	M= MR16	B= black Blank= factory white G= grey	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W LL= MR16 LED, 24V-4W	Blank= no option T= tamper-proof screws ¹
			Other colours available	*690.0454-E= tamper-proof bit (sold separately)	
Example: EF40PDMBLI					
EF40 Series	Number of lamps	Lamp type	Colour	Lamp type/voltage/wattage	Options
EF40= die-cast	Blank= one lamp D= two lamps	M= MR16	B= black Blank= factory white G= grey	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W LL= MR16 LED, 24V-4W LM= MR16 LED, 24V-6W LW= MR16 LED, 120V-4W	Blank= no option T= tamper-proof screws ¹
			Other colours available	*690.0454-E= tamper-proof bit (sold separately)	
Example: EF40DMLI					

Survive-All™ EF39 & EF39P Series

NEMA-4X certified remote fixture



Features

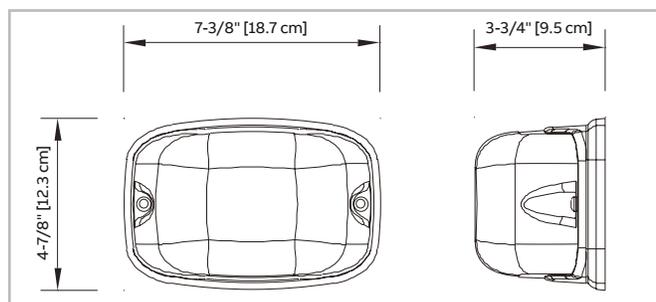
- Fully gasketed with a selection of cast aluminum or polycarbonate back plate
- Clear polycarbonate UV and impact resistant lens
- Choice of single or double lamp models
- Available in 6, 12 and 24V models LED
- Easy lamp replacement
- Comes standard with tamper-proof screws and bit
- NSF certified for food processing plants
- NEMA-4X certified¹
- CSA certified to C22.2 No. 141-15
- Suitable for indoor/outdoor installation
- **Warranty details at: www.emergi-lite.ca**

¹For EF39P, units are NEMA-4X certified when installed using a circular NEMA-4X rated junction box (sold separately by ABB under P/N CE365D-CAR or CE365DW-CAR and with plugs P/N P7701W-CAR



Dimensions

Dimensions are approximate and subject to change.



Ordering information

EF39P Series	Number of lamps	Lamp type	Colour	Lamp type/voltage/wattage	Options
EF39P= polycarbonate NEMA-4X backplate	Blank= one lamp D= two lamps	M= MR16	B= black Blank= factory white G= grey	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W LL= MR16 LED, 24V-4W	-SM= surface mount ¹
Example: EF39PDM-B-LI					¹ Surface plastic junction box included

EF39 Series	Number of lamps	Lamp type	Colour	Lamp type/voltage/wattage	Options
EF39= die-cast NEMA-4X backplate	Blank= one lamp D= two lamps	M= MR16	B= black Blank= factory white G= grey	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W	LJ= MR16 LED, 12V-6W LL= MR16 LED, 24V-4W LM= MR16 LED, 24V-6W LW= MR16 LED, 120V-4W
Example: EF39DM-LL					

Typical specifications

Supply and install **Emergi-Lite® EF39P Series** remote emergency lighting fixtures. These remote fixtures will consist of either single or double lamp configurations according to the design. These fixtures shall be fully gasketed with a UV resistant and fire retardant polycarbonate back plate with a clear heavy-duty UV resistant polycarbonate lens. The unit shall be equipped with two emergency heads with tool-less adjustable swivels (lamps of 12W or less). Units shall be NEMA-4X and NSF certified and specifically designed for high abuse areas, wet and cold weather locations, food processing plants, as well in applications requiring a resistance to corrosive agents. The standard unit will come with stainless steel tamper-proof screws and bit.

The remote fixture shall be certified to CSA C22.2 No. 141. The head(s) shall be fully adjustable without tools and should be equipped with LED lamp(s) of _____ V, _____ W.

The remote unit shall be the **Emergi-Lite®** model: _____.

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W
580.0113-E	MR16 LED	120V-4W

Housing colour



EHPRL Series

NEMA-4X rated remote fixture



Features

- PVC grey housing and heads designed for heavy-duty industrial applications: indoors, outdoors, hose-down areas, cold-storage facilities etc
- Can be installed in wide temperature conditions: -40°C to 55°C (77°F to 131°F)
- NEMA-4X protection grade against liquids and windblown dust
- High-efficacy LED emergency heads outperform traditional 50W incandescent lamps
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure
- Simple and easy to install on walls, poles, columns or struts. For vertical installation on poles or columns, use mounting bracket catalogue number: PMK1-E (sold separately)
- Meets or exceeds CSA C22.2 No. 141-15
- 1 year limited warranty
- **Warranty details at: www.emergi-lite.ca**



Typical specifications

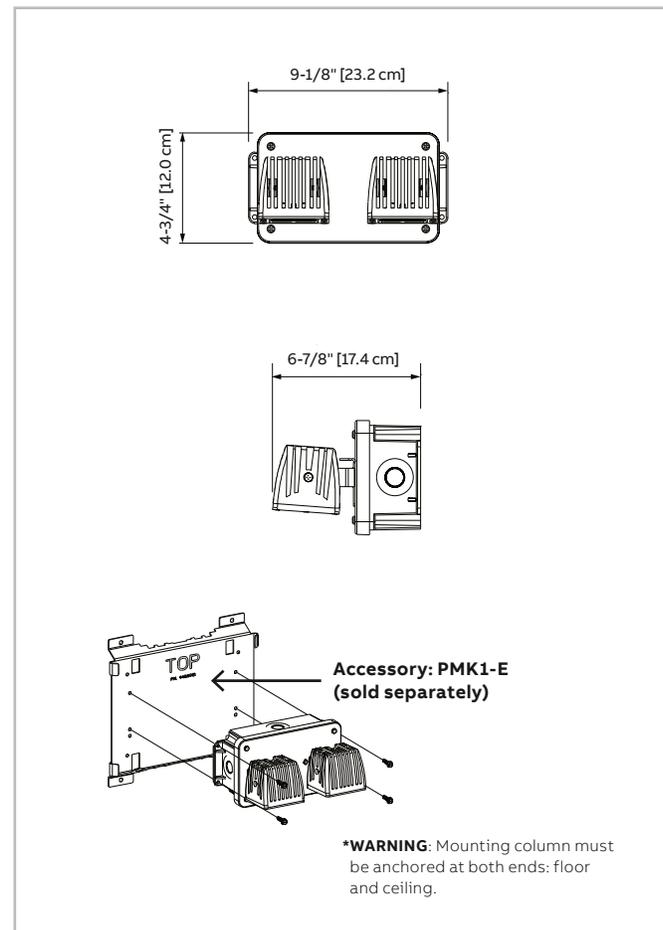
Supply and install **Emergi-lite® EHPRL Series** remote emergency lighting fixtures. These remote fixtures will consist of either single or double lamp configurations. The housing shall be made of grey PVC designed for heavy duty industrial applications with temperatures ranging from -40°C to 55°C [-40°F to 131°F]. The remote fixture can easily be installed on walls, poles, columns or struts. The heads shall be die-cast and have a flat square lens made of UV stabilized clear polycarbonate. Each head shall include four (4) high efficacy LED and two independent drivers.

The remote fixture shall fully adjustable without tools, be NEMA-4X rated and be cUL listed to CSA C22.2 No.141-15.

The remote unit shall be **Emergi-Lite®** model: _____.

Dimensions

Dimensions are approximate and subject to change.



EHPRL Series

NEMA-4X rated remote fixture

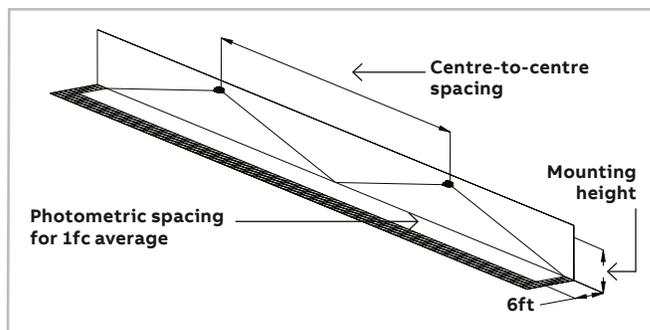
Photometry performance

Whether installed indoors or outdoors, the **EHPRL Series** of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the application, one may select and specify among three levels of lumen output. See cross reference to traditional incandescent emergency lights below.

LED lamp	Power (W)	Total lumens	Outperforms the incandescent lamps
L6	6W	565	35W PAR36, MR16 halogen
L10	10W	1030	50W PAR36, MR16 halogen
L15	15W	1320	50W MR16-IR halogen

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NBC; Average: 1fc; Min: 0.1fc

Mounting height	Spacing centre-to-centre (feet)		
	Lamp L6/6W, 565LM	Lamp L10/10W, 1000LM	Lamp L15/15W, 1300LM
10 ft	80	110	140
15 ft	70	105	135
20 ft	60	100	130
25 ft	50	95	120



Ordering information

Series	Number of heads	LED lamp type
EHPRL= high performance remote	1= single 2= double	L6W= 12V, 24V-6W L10W= 12V, 24V-10W L15W= 12V, 24V-15W

Example: EHPRL2L10W

PMK1-E= pole mounting bracket (sold separately)

EF41 Series

Hazardous location remote fixture

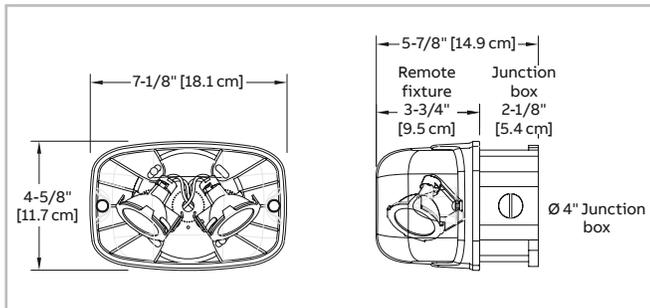


Features

- Quality illumination requires fewer fixtures
- Certified Class I Zone 2, Groups IIA, IIB and IIC
- Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M1981
- Extreme operational temperature range: -40°C to +40°C.
- Choice of single- or double-lamp models
- High-efficacy LED lamps of 4W, 5W and 6W
- Input voltage: 6V, 12V, 24V or 120V
- Fully gasketed die-cast aluminum back plate
- Clear polycarbonate cover, UV and impact resistant
- Easy installation on a 4" octagonal box (included)
- Comes standard with tamper-proof screws and bit
- Meets or exceeds CSA 22.2 No.141
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Typical specifications

Supply and install **Emergi-Lite® EF41 Series** remote emergency lighting fixture. The fixture shall have a single- or double-lamp configuration (as specified) and shall include a fully gasketed die-cast aluminum back plate and a clear heavy-duty UV resistant polycarbonate cover. The fixture shall come standard with a 4" octagonal box, stainless steel tamper-proof screws and dedicated screwdriver bit.

The fixture shall be certified for use in hazardous locations Class I, Division 2, Groups A, B, C and D and shall be listed to CSA C22.2 No. 141 and CSA C22.2 No.137-M1981. The fixture shall be rated with a temperature code for the selected lamps as in the table below.

Each lamp in the fixture shall be able to be oriented without tools and should be equipped with LED lamp(s) of _____ V, _____ W.

The remote unit shall be **Emergi-Lite®** model: _____ .

Replacement lamps

Ordering code	Lamp type	Voltage/wattage	Temperature code
580.0097-E	LED	6V-4W	T4A (Max. 120°C)
580.0122-E	LED	6V-5W	T4A (Max. 120°C)
580.0093-E	LED	12V-4W	T5 (Max. 100°C)
580.0104-E	LED	12V-5W	T4A (Max. 120°C)
580.0106-E	LED	12V-6W	T4 (Max. 135°C)
580.0098-E	LED	24V-4W	T5 (Max. 100°C)
580.0100-E	LED	24V-6W	T4 (Max. 105°C)
580.0113-E	LED	120V-4W	T4A (Max. 135°C)

Ordering information

Series	Number of lamps	Lamp type	Colour	Voltage/wattage/lamp type
EF41	Blank= one lamp D= two lamps	M= MR16	-G= grey	-LA= MR16 LED, 6V-4W -LB= MR16 LED, 6V-5W -LG= MR16 LED, 12V-4W -LI= MR16 LED, 12V-5W -LJ= MR16 LED, 12V-6W -LL= MR16 LED, 24V-4W -LM= MR16 LED, 24V-6W -LW= MR16 LED, 120V-4W

Example: EF41M-G-LG

New product

EHZRL Series

Hazardous location remote fixture

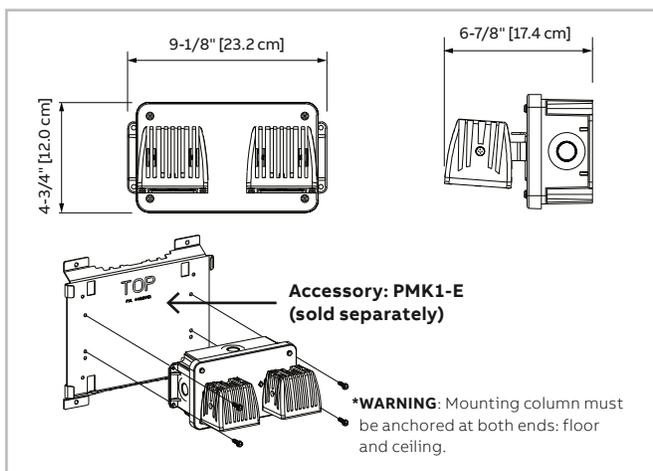


Features

- Evaluated to CSA C22.2 No.141-15 and No.137-M1981 for use in hazardous locations: Class I Division 2, Groups A, B, C and D; Class II Division 2, Groups F and G and Class III
- NEMA-4X protection grade against liquids and windblown dust
- Can be installed in wide temperature conditions: -40°C to 55°C (-40°F to 131°F)
- High-efficacy LED emergency heads outperform traditional 50W halogen lamps
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure
- Simple and easy to install on walls, columns or struts. For vertical installation on columns, use mounting bracket catalogue number: PMK1-E (sold separately). See warning in installation below
- 1 year limited warranty
- **Warranty details at: www.emergi-lite.ca**

Dimensions

Dimensions are approximate and subject to change.



Ordering information

Series	Number of heads	LED lamp type
EHZRL= high performance remote heads	1= single 2= double	L15W= 12V, 24V-15W
Example: EHZRL2L15W		PMK1-E= pole mounting bracket (sold separately)

Typical specifications

Supply and install **Emergi-Lite® EHZRL Series** remote emergency lighting fixtures. These remote fixtures will consist of either single or double lamp configurations. The housing shall be made of grey PVC designed for hazardous location Class I, Div. 2, Groups A, B, C and D; Class II, Div.2, Groups F and G and Class III applications . The remote fixture can easily be installed on walls, columns or struts. The heads shall be of die-cast aluminum and have a flat square lens made of UV stabilized clear polycarbonate. Each head shall include four (4) high efficacy LED and two independent drivers.

The remote fixture shall fully adjustable without tools, be NEMA-4X rated and be cUL listed to CSA C22.2 No.141-15 and No.137-M1981 standards.

The remote unit shall be **Emergi-Lite®** model: _____.

Classification for hazardous locations

Type of emergency heads	Classification	Temp. code TA= 55°C
L15	Class I Division 2 Groups A, B, C and D Class II Division 2 Groups F and G; Class III	T3C T5

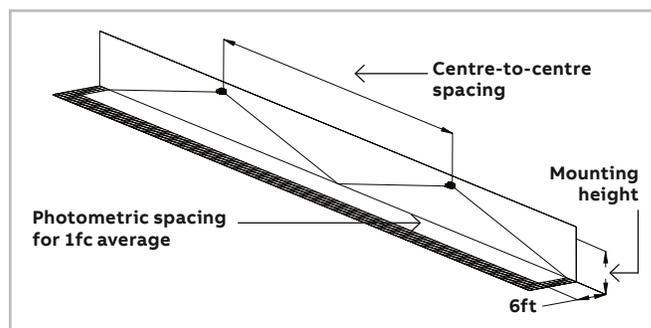
Photometry performance

Whether installed indoors or outdoors, the **EHZRL Series** of LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights.

LED lamp	Power (W)	Total lumens	Outperforms the incandescent lamps
L15	15W	1320	50W MR16-IR halogen

Industrial environment: wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NBC; Average: 1fc; Min: 0.1fc

Mounting height	Spacing centre-to-centre (feet) Lamp L15/15W, 1300LM
10 ft	140
15 ft	135
20 ft	130
25 ft	120
30 ft	110



New product

EFXPR LED Series

Remote fixtures hazardous locations



Features

- CSA Certified for use in hazardous locations:
 - Class I, Divisions 1 and 2, Groups A, B, C, D
 - Class II, Divisions 1 and 2, Groups E, F, G
 - Class III, Divisions 1 and 2
- High efficacy LED lamps
- Die-cast aluminum body with grey epoxy powder coat finish
- Clear, impact and heat resistant prismatic glass globe
- Available in 6, 12, 24 and 120V
- Available with single-lamp or twin-lamp combination
- New, easy-to-build catalogue number based on the **Emergi-Lite®** severity codes
- Meets or exceeds CSA 22.2 No.141
- **Warranty details at: www.emergi-lite.ca**

Typical specifications

Supply and install the **Emergi-Lite® EFXPR LED Series** of hazardous location remote heads. The head housing will be die-cast aluminum with grey epoxy powder coat finish. The lens shall be a clear, impact and heat resistant prismatic glass globe. The head shall be factory sealed. External seals shall not be required.

The remote shall come complete with a mounting connection and include _____ lamp(s) rated _____ V, _____ W. The remote head shall be suitable for Class , Division , Group .

The remote unit shall be **Emergi-Lite®** model: _____ .

Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	LED	6V-4W
580.0122-E	LED	6V-5W
580.0104-E	LED	12V-5W
580.0106-E	LED	12V-6W
580.0098-E	LED	24V-4W
580.0095-E	LED	120V-4W



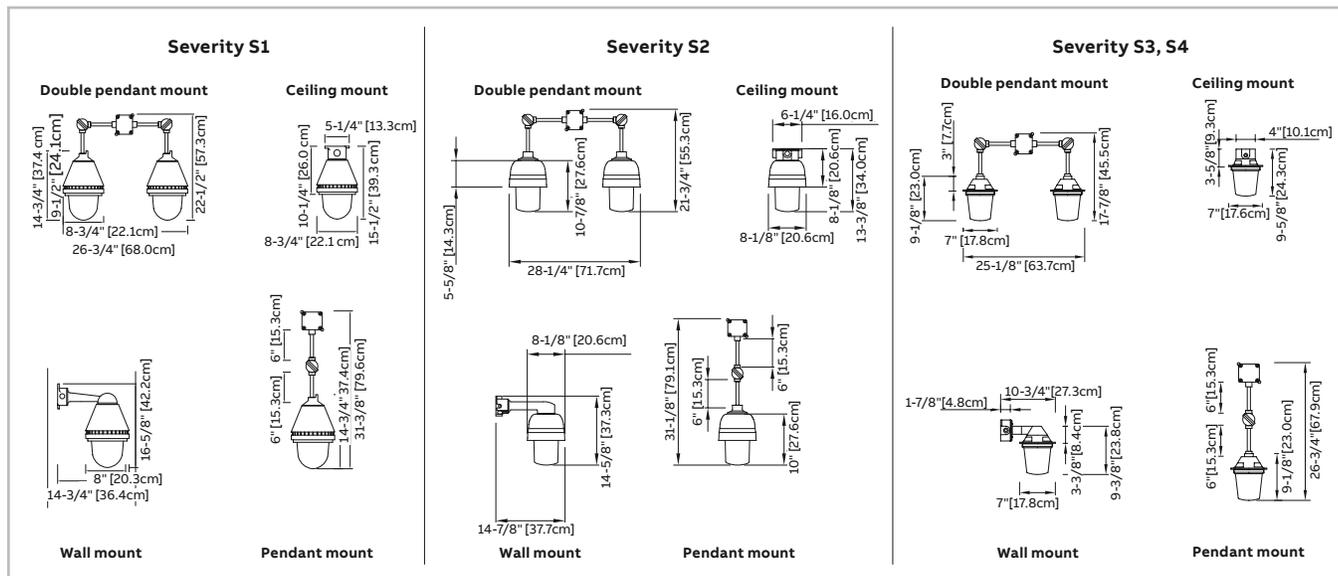
Made in Canada

EFXPR LED Series

Remote fixtures hazardous locations

Dimensions

Dimensions are approximate and subject to change.



1) Severity code and environment

Environment	Severity code
Cl. I, Div. 1, Gr. B	S1
Cl. I, Div. 1, Gr. C, D	S2
Cl. I, Div. 2, Gr. B, C, D	S3
Cl. II, Div. 1&2	S4
Gr. E, F, G & Cl. III, Div. 1&2	

2) Certification

Certification guide for remote lighting fixtures (40°C ambient)				
Severity code	S1	S2	S3	S4
Temperature code	T4A	T6	T1	T3C (E.G.F.)
CSA/UL rating	Max. 120°C (248°F)	Max. 85°C (185°F)	Max. 450°C (842°F)	Max. 165°C (329°F)

Ordering information

Series	Mounting	# of lamps	Severity code	Lamp wattage/type
EFXPR	C= ceiling mount	11= single remote, one lamp	S1= CL.1, Div.1, Gr.A, B	-LA= 6V-4W, MR16 LED
	P= pendant mount	12= single remote, two lamps	S2= CL.1, Div.1, Gr.C, D	-LB= 6V-5W, MR16 LED
	W= wall mount	21= double remote, one lamp each ¹	S3= CL.1, Div.2, Gr.A, B, C, D	-LG= 12V-4W, MR16 LED
			S4= CL.2, Div.1,&2, Gr.E, F, G CL3, Div. 1&2	-LI= 12V-5W, MR16 LED -LJ= 12V-6W, MR16 LED -LL= 24V-4W, MR16 LED -LV= 120V-4W, GU10 LED

Example: EFXPRP11S3-LA

¹Pendant mount only.



Central systems

Table of contents

Central systems

**Mini-Inverter Series**

174

**What are Emex
Central Systems?**

176

**IPS Single Phase
Series**

178

**IPS Three Phase
Series**

180

**System Options**

182

**User Interface &
Display Functions**

183

**Central System
Request Data Form**

184

Mini-Inverter Series

Interruptible unit equipment



Features

The **Mini-Inverter** is a cUL Listed stand-alone pure sine wave output inverter designed to provide power to designated emergency lighting fixtures. In a power loss situation, it will supply power from the onboard battery supply. The **Mini-Inverter** works in conjunction with incandescent, LED, and fluorescent fixture types and will automatically run switched, normally-on, or normally-off designated emergency fixtures. The **Mini-Inverter** is ideal for applications requiring an emergency source for lighting arrangements that utilize multiple lamp and fixture types and is available in surface mount and comes with a one-year warranty and nine-year pro-rata battery warranty.

- Lamps operated: Incandescent LED, fluorescent lamps and ballast combinations, including TRIAC dimmable ballasts
- Components: High-efficiency pure sine wave inverter
- Temperature-compensated charger 12V oversized Valve Regulated lead acid (VRLA) battery
- Construction: 18-gauge steel for 300W & 600W/ 14-gauge steel for 1000W & 1440W with a white baked-on powder coat paint finish
- Emergency lighting supplied from one convenient, reliable source
- Input/output voltage 120/120V 60Hz or 347/347V 60 Hz
- Replaceable output fuse protection
- Valve regulated lead acid (VRLA) battery provides long-life and is maintenance free
- Line voltage allows for remote mounting of emergency fixtures at distances up to 1000 feet
- Low battery voltage disconnect
- Unit comes standard with electronic lockout and brownout circuits
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- Cabinet in factory white powder-coat paint finish
- **May accept load to 80% capacity when load feature power factor of 0.9 or more**
- Non audible auto-diagnostic is standard. Nexus® system interface available with an improved minimum lost load detection of 10%.
- Standard lighting control override for 0-10V dimming systems
- Meets or exceeds the requirements of CSA 141-15

Typical specifications

Emergency lighting shall be provided by inverter unit equipment designed to operate designated incandescent, fluorescent and LED fixtures on emergency power at their full nominal lumen rating during the full 30 minute emergency discharge cycle. System output will be rated at watts for 30 minutes and provide fused output connections to the load. The system's voltage rating shall be VAC input/output nominal. The inverter unit shall allow for fused connected emergency fixture(s) to be normally on, normally off, switched or dimmed without affecting lamp operation during a power failure.

Upon utility power loss, the inverter unit shall deliver 100% of its rated output to the emergency fixtures regardless of the local switch or dimmer (TRIAC) position, and will provide power to emergency fixtures at distances of up to 1000 feet. The housing shall be manufactured using 18-gauge steel for 300W & 600W/ 14-gauge steel for 1000W & 1440W with a white baked-on powder coat paint finish. The unit's electronics shall include a self-contained inverter section with a fully automatic, thermalcompensating variable-rate battery charger, AC lockout feature, low battery voltage disconnect, overload, short circuit and brownout protection as standard. The unit shall utilize a sealed lead acid battery with a 10-year design life. The inverter system shall be cUL Listed and labeled. The unit shall be covered under a 1-year warranty on the electronics and battery and a 9-year pro-rata warranty on the battery. It shall meet or exceed the requirements of CSA 141-15.

Specifications

Transfer time: less than 1 second

Voltage regulation on emergency: + 3%

Frequency regulation on emergency: 60 Hz +/- 1%

Load power factor range: 0.9 leading to 0.9 lagging

Operating temperature: 20° to 30°C (68° to 86°F)

Warranty

All **Emergi-Lite®** inverter products receive 100% quality inspection before shipment to insure proper and satisfactory operation. When operated under normal conditions, **Emergi-Lite®** inverter products will provide years of dependable service. This unit is backed by a complete 1-year warranty against defects in material or workmanship, and a 9-year prorata battery warranty.

Warranty details at: www.emerigi-lite.ca

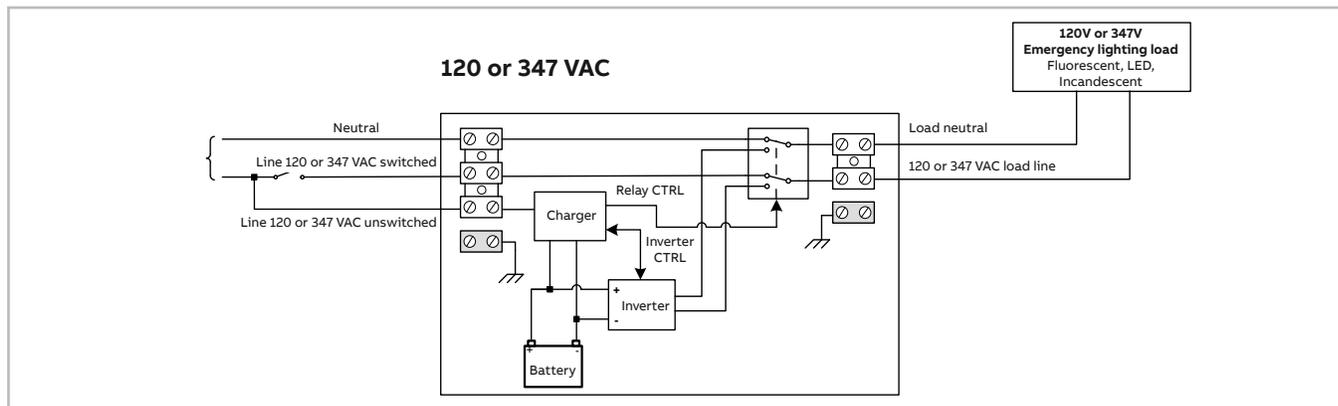
The inverter unit is **Emergi-Lite®** model: _____.



Mini-Inverter Series

Interruptible unit equipment

Wiring diagram



Electrical characteristics & dimensions

Power rating	Max. input rating		Sine wave	Installation	Cabinet dimensions			No. of batteries	Weight		Weight w/o battery	
	120VAC	347VAC			W"	H"	D"		120V	347V	120V	347V
300W	3.10	N/A	Pure	Wall	27"	12.25"	7.25"	1	55 lbs	N/A	30 lbs	N/A
600W	6.00	2.30	Pure	Wall	24"	20.25"	10.5"	2	105 lbs	117 lbs	55 lbs	67 lbs
1000W	11.60	3.60	Pure	Wall	24"	20.25"	14.5"	2	150 lbs	169 lbs	70 lbs	89 lbs
1000W-4C	14.00	N/A	Pure	Wall	24"	40.75"	14.5"	4	320 lbs	N/A	198 lbs	N/A
1440W	15.00	5.00	Pure	Wall	24"	20.25"	14.5"	2	190 lbs	214 lbs	75 lbs	99 lbs

Power consumption and unit rating

Model number	AC specs	Emergency power available for load					
		30 min	1H00	1H30	2H00	4H00	
EMI-300	120VAC	3.10 Amps	300W	175W	125W	100W	50W
EMI-600	120 / 347VAC	6.00 / 2.30 Amps	600W	350W	250W	200W	100W
EMI-1000		11.60 / 3.60 Amps	1000W	585W	415W	330W	165W
EMI-1000-4C	120VAC	14.00 Amps	N/A	N/A	1000W	800W	N/A
EMI-1440	120 / 347VAC	15.00 / 5.00 Amps	1440W	842W	600W	480W	240W

Ordering information

Series	Capacity	Voltages in/out	Diagnostic features	Options
EMI= Series	-300= 300W -600= 600W -1000= 1000W -1440= 1440W	-1= 120/120VAC, 60 Hz -3= 347/347VAC, 60 Hz ¹	Blank = Auto-Diagnostics, non-audible ¹ -U = Auto-Diagnostics, audible ¹ -NU = no Diagnostics -NEX = Nexus [®] wired system interface ² -NEXRF = Nexus [®] wireless system interface ²	-4C = four output circuits ¹ -D3 = time delay (15 minutes) -LC = line cord (120V only) -LW = cord and twist lock plug (120V only) -SAC = service alarm contact

Example: EMI-1440-1

¹Available only with 600W, 1000W & 1440W

¹Minimum load required: 10% of unit capacity
²Please consult your sales representative

¹1000W model at 120V only

What are Emex Central Systems?

An overview

Choosing the right system: There are a variety of ways in which back-up power can be provided. However, even though certain methods are suitable for critical applications, they may not necessarily be suitable for emergency lighting.

This is because an emergency lighting system has unique load characteristics. And since emergency lighting is a critical life-safety installation, it is vital that a central battery system is designed with these load characteristics in mind. EMEX Power central inverter systems are specifically designed to provide emergency power for emergency lighting systems in a power failure.

In choosing the right AC system to support emergency lighting it is important to consider the following questions:

Overload performance

Is the system able to start the full load without the mains supply present. How does the system perform in a total power failure (ie is the system able to start the load without the bypass supply being available)?

Repeat duty

CSA141-10 requires a central battery system to fully recharge within 24 hours. Is the charger able to recharge the batteries quickly (80% in 14 hours or 100% after 24 hours)?

Energy consumption and heat dissipation

Are the inverter and charger permanently running, shortening the battery life, generating heat, wasting energy and shortening component life? Are cooling fans running continuously, generating noise?

Maintenance

Is the system easy to service and maintain? Is the system designed in a modular format, or would the failure of even a minor component require the whole system to be shut down and stripped for repair?

General information on UPS systems:

Recharge period

UPS systems which are designed primarily for computer back-up generally offer short run times, 5 or 10 minutes. The long run times required for emergency lighting call for more powerful chargers to recharge the larger bank of batteries needed in the time prescribed by CSA.

Overload performance

An emergency lighting load will impose large “in-rush” currents when starting lamps from cold. However, UPS systems are often designed to shut down at only 125% overload and revert to the incoming supply. During a total power failure situation, this could result in total failure of the emergency lighting system. Furthermore, a UPS may fail to clear a breaker on a lighting circuit, meaning that a single short circuit fault could result in loss of the entire emergency lighting supply.

Energy consumption and battery life

Most UPS systems operate in the “on-line” mode, whereby the inverter runs constantly to supply the load, and power is taken from the battery with the charger running constantly. This places an excessive ripple on the battery (contrary to the advice given by most battery manufacturers). Also, the system is constantly generating heat which has a further detrimental effect on battery life. There are energy costs and heat generation issues must be addressed when running an on-line system.



System design and series highlights

The EMEX Power inverter and charger modules utilize solid state electronics of the highest reliability to provide a rugged, easy to maintain system with exceptional performance for emergency lighting use. The system has been designed solely for emergency lighting, and not modified from other less essential power supply requirements. As such, the system has exceptional overload performance without the need to over-specify the rating of the inverter to ensure faults can be cleared.

Each module has input and output protection and each module measures and limits its own current.

Alarms and status indications are provided on the front panel display, which provide clear and concise information, rather than a long list of parameters, which may be confusing.

Performance

The EMEX-Power Systems work with lighting loads to provide full light output for minimum 30 min. It is designed to support incandescent, fluorescent and LED loads. It will power these loads at cold starts for all normally off circuits or normally on circuits.

True Sine Waveform

Using a solid-state, pulse width modulation (PWM) inverter, the systems produce pure sinusoidal output waveform with less than 5% Total Harmonic Distortion (THD) for linear loads.

Reliability

The product is third generation inverter technology. LVD (Low Voltage Disconnect) circuitry eliminates excessive battery drain after long power outages.

Batteries

Automatic restart and recharge upon restoration of utility.

Approvals

- CSA C22.2 No. 141-15 – Emergency Lighting Equipment
- CSA C22.2 No. 107.3 – Uninterruptible Power Systems
- UL 1778 – Uninterruptible Power Systems

Applications

EMEX-Power Systems can be used in almost every type of building, especially in architecturally sensitive applications or when maintenance costs and testing of individual unit equipment becomes significant. Our systems are designed to work with power factor corrected as well as the most recent T5 and T5-HO electronic ballasts.

Features	Benefits
<p>Self-diagnostic/self-testing Programmable monthly and annual self-testing. Proven self-diagnostic with information stored in separate memory logs for Test, Event and Alarm. Microprocessor monitoring and control.</p>	<p>Compliance with NFPA101 The self-testing meets the requirements of NFPA and UL. User programmable time of testing. Test results, events or alarms can be downloaded from history logs. Load monitoring. Reduced testing/service time.</p>
<p>Low heat dissipation Very low heat loss in standby operating mode (see specifications for exact values). Convection cooling in normal mode with forced air during emergency and recharge mode. Battery cabinets: convection cooling only.</p>	<p>Less air-conditioning Reduced costs for air-conditioning required to ensure the optimum operating temperature when compared with equivalent systems that dissipate much more heat. Higher reliability of fans and electronic components.</p>
<p>Versatile installation Modular design, easy front access freestanding cabinets, fasten together when more than one cabinet is required. Optional seismic kit available. All wiring provided is pre-cut and terminated, along with the necessary hardware for proper installation</p>	<p>Easy to install Quick installation and connection through flexible cable entries and fast access terminal blocks. Low MTTR (<30 min.) due to modular design, quick disconnect means and frontal access.</p>
<p>Complete protection Battery circuit breakers are standard. Modular standard systems offer overload capacity, short-circuit protection, current-limiting, low-battery disconnect and brownout protection as standard.</p>	<p>Reduced damage risks The full protection of the system will eliminate damage created by external events and will increase lifetime of the electronics and the batteries.</p>
<p>Thermal performance Bonded oversized heat sinks for maximum thermal performance. Cooling fans are energized only in inverter and recharge modes.</p>	<p>Increased MTBF Increased reliability and reduced preventative maintenance. No air filters needed.</p>
<p>Monitoring and control User friendly programmable interface with LCD display provides full metering values, easy program and control functions and a wide range of visual and audible alarms.</p>	<p>Wasy maintenance Diagnostics, troubleshooting, preventative maintenance and service are made easier by using the front panel display or the history logs.</p>

IPS Single Phase Series

Interruptible emergency lighting inverter system 3KVA –15KVA



Features

- PWM/Power Mosfet technology
- Self-testing/self-diagnostic
- User programmable with password protection
- User programmable variable time delay
- Optional 100% normally Off output
- RS485 MODBUS RTU communication port
- Micro-processor controlled
- 30, 60, 90, 120 minutes run times
- Summary alarm form C dry contact
- Generator compatibility
- Electronic and magnetic ballast compatible
- Automatic event, test and alarm log
- LCD display
- Maintenance free standard batteries
- Forced air cooling during emergency and recharge mode only
- Off when on standby

Electrical/mechanical characteristics for 30 minutes back-up time

Power rating KVA/KW	Effic. at full load %	Max. input current (A) ⁽¹⁾				Heat loss in normal mode (BTU/HR)	Batt. VDC	Batt. ADC	No. of batt. ⁽¹⁾	IPS cabinet dimensions			No. of batt. cab. ⁽¹⁾⁽²⁾	Batt. cabinet dimensions			IPS cabinet weight KG ⁽¹⁾	Batt. cabinet weight KG (empty) ⁽¹⁾	Battery weight KG ⁽¹⁾	Total system weight KG ⁽¹⁾
		120V	240V	277V	347V					W"	H"	D"		W"	H"	D"				
3.0	98%	42	21	18	14	546	120	34	10	30	71	27	NA	NA	NA	NA	240	NA	105	345
6.0	98%	67	33	29	23	546	120	68	20	30	71	27	NA	NA	NA	NA	290	NA	210	500
9.0	98%	92	46	40	32	546	120	101	10	30	71	27	NA	NA	NA	NA	340	NA	372	712
12.0	98%	117	58	51	40	546	120	135	20	30	77	27	1	30	77	27	390	140	550	1080
15.0	98%	142	71	61	49	546	120	168	20	30	77	27	1	30	77	27	440	140	550	1130

¹For 30 min. discharge time. For other discharge times, consult factory.

²Batteries are installed in the IPS cabinet for 3 to 9.0KVA systems, for 30 minutes only.

Ordering information

Series	System voltage	KVA/KW	Run time	External circuit breaker	Options
E= Series	1= 120-120 input-output 2= 120/240-120/240 (3 wire in-out) 3= 277-277 4= 347-347	A= 3 B= 6 C= 9 D= 12 E= 15 ¹	3= 30 minutes 6= 60 minutes 9= 90 minutes 12= 120 minutes	B= no breakers N####= normally on F####= normally off First two digits= Qty. 01 to 99 max (specify) Last two digits= Amp rating 10, 15, 20, 25... (specify) Example: N1020	A= fast recovery charge C= remote alarm panel E= output trip alarm G= "inverter on" dry contact H= normally off full capacity output I= extended battery warranty ¹ J= external maintenance bypass K= anchor mounting kit L= drip shield M= second output terminal block N= normally on & normally off output ² O= Bacnet Gateway

Other voltages
available using
external transformer
(sold separately)

¹For 120 minutes
run time, minimum
120/240VAC
in/out

Example: E1A3N1020

¹ Consult your sales representative

²Full capacity available on either output

IPS Single Phase Series

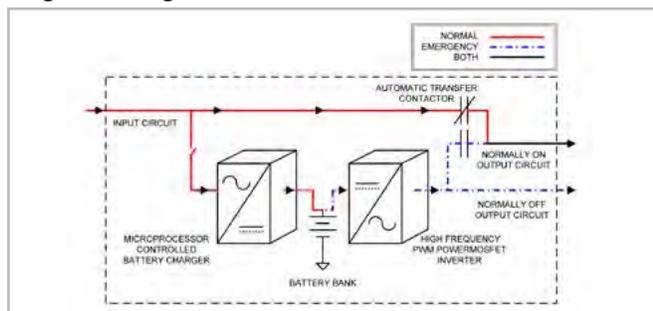
Interruptible emergency lighting inverter system 3KVA –15KVA

System specifications

General	
Design	Stand-by. PWM inverter type utilizing Power Mosfet technology with 500ms transfer time.
Control	Microprocessor controlled, 4 x 20-character display with touch pad controls & functions
Metering	Input & output voltage, battery voltage, battery & output current, output VA, temperature
Communications	RS-485 MODBUS RTU Port (DB-9)
Electrical input	
Voltage	120, 277, 347VAC 2-wire or 120/240 3-wire, 1-phase
Input frequency	+/-2% for +/-25% load step change, +/-3% for a 50% load step change, recovery within 3 cycles
Electrical output	
Voltage	120, 277, 347VAC 2-wire or 120/240 3-wire, 1-phase
Dynamic voltage	+/-2% for +/-25% load step change, +/-3% for a 50% load step change, recovery within 3 cycles
Harmonic distortion	<5% THD for linear load
Output frequency	60Hz +/- 2Hz during emergency mode
Load power factor	0.7 lag to 0.9 lead
Inverter overload	120% continuous, 150% for 1 minute and 200% for 10 seconds
Protection	Optional external distribution circuit breaker
Crest factor	3
Environmental conditions	
Storage/transport	32°F to 104°F (0°C to 40°C) without batteries 68°F to 86°F (20°C to 30°C) with batteries ⁽¹⁾
Operating temperature	System operates safely from 32°F to 104°F (0°C to 40°C) but optimum operation is between 68°F and 77°F (20°C to 25°C). Battery performance can be affected by temperature.
Altitude	<10,000 feet (above sea level) without de-rating
Relative humidity	0 to 95% non-condensing
Audible noise	45 dBA at 1m from surface in emergency mode

⁽¹⁾Max. 3 months at 77°F-86°F (25°C-30°C)

Single line diagram



Cabinets

Modular design, freestanding NEMA type 1 steel cabinets powder coated for corrosion and scratch resistance. Front access design through hinged lockable doors requires only 42" front, 2" back and side clearance and 12" top clearance without drip shield. Top conduit entry Gland Plate.

Inverter

Using Power Mosfet/PWM technology the inverter converts DC voltage supplied by the batteries to AC voltage of a precise stabilized amplitude and frequency, suitable for most sophisticated electrical equipment. True sinusoidal output waveform with very low distortion (less than 5% for linear loads). Overload capability of 120% continuous, 150% for 1 minute and 200% for 10 seconds.

Charger

Fully automatic, temperature compensated, charger recharges fully discharged batteries in maximum 24 hours at nominal AC input voltage. AC input current limiting and over-voltage protection included.

Battery

System is provided standard with 10 year, maintenance free, sealed valve regulated, lead calcium batteries. 30, 60, 90 & 120 min. standard discharge time at full load under normal operating temperature (20°C to 25°C). Low voltage disconnect protection included. No special ventilation required.

Supervision

Automatic self tests consist of a 2-minute monthly, 1/3 discharge at 6 months and full annual discharge. The front-mounted control panel includes, a 4-line 20-character LCD display with a keypad to control and monitor the operation of the system. This allows the operator to easily "watch" system functions as they occur and check on virtually any aspect of the system's operation. Standard RS485 MODBUS RTU diagnostic interface.

Alarms

Battery High/Low, Low Voltage Disconnect, Battery Disconnect, Maintained Lamp Off, Charger Fail, Supply From Battery, System Inhibit, Circuit Breaker Trip, Module Breaker Trip, Inverter Undervoltage, Inverter Overvoltage, Output Overcurrent, Hi Temp, Over Temp, Unit in Bypass, Inverter Frequency Control Failed, Processor Reset.

Optional features

External Output Circuit Breakers, Output Trip Alarms, Extended Battery Warranty, 12 Hours Fast Recharge, External Maintenance Bypass Switch, Remote Meter Panel, Ethernet Port, Nexus® System Interface. Dripshield, Remote Alarm Panel, Normally Off Output, Anchor Mounting Kit, Dry Contact Relay, Bacnet Gateway.

Factory start-up

Includes one additional year of warranty. See warranty conditions.

Warranty

(Full limited warranty conditions available upon request)

Limited manufacturer warranty is one-year, parts and labor, for system electronics. Battery warranty is one year full plus 9 years pro-rata for a total of 10 years, under normal operating conditions. System must be put in service within 6 months from ship date in order to validate warranty. Consult factory for other battery types.

IPS Three Phase Series

Interruptible emergency lighting inverter system 4.5KVA –54KVA



Features

- PWM/Power Mosfet technology
- Self-testing/self-diagnostic
- User programmable with password protection
- User programmable variable time delay
- Optional 100% normally Off output
- RS485 MODBUS RTU communication port
- Micro-processor controlled
- 30, 60, 90, 120 minutes run times
- Summary alarm form C dry contact
- Generator compatibility
- Electronic and magnetic ballast compatible
- Automatic event, test and alarm log
- LCD display
- Maintenance free standard batteries
- Forced air cooling during emergency and recharge modes only
- Off when on standby

Electrical/mechanical characteristics for 30 minutes back-up time

Power rating KVA/ KW	Effic. at full load %	Max. input current (A) ⁽¹⁾			Heat loss in normal mode (BTU/HR)	Batt. VDC	Batt. ADC	No. of batt. ⁽¹⁾	No. of IPS cab. ⁽¹⁾⁽²⁾	IPS cabinet dimensions			No. of 20 batt. cab. ⁽¹⁾⁽²⁾	Batt. cabinet dimensions			No. of 30 batt. cab. ⁽¹⁾⁽²⁾	Batt. cabinet dimensions			Total IPS cabinet weight KG ⁽¹⁾	Total batt. cabinet weight KG (empty) ⁽¹⁾	Battery weight KG ⁽¹⁾	Total system weight KG ⁽¹⁾
		208/ 120V	480/ 277V	600/ 347V						W"	H"	D"		W"	H"	D"		W"	H"	D"				
4.5	98%	29	13	10	546	120	50	20	1	30	71	27	NA	NA	NA	NA	NA	NA	NA	NA	265	NA	210	475
9.0	98%	42	18	14	546	120	101	10	1	30	71	27	NA	NA	NA	NA	NA	NA	NA	NA	340	NA	372	712
13.5	98%	54	23	19	546	120	151	20	1	30	77	27	1	30	77	27	NA	NA	NA	NA	415	140	550	1105
18.0	98%	67	29	23	546	120	202	20	1	30	77	27	1	30	77	27	NA	NA	NA	NA	540	140	744	1424
22.5	98%	79	34	27	546	120	252	30	1	30	77	27	NA	NA	NA	NA	1	30	71	30	615	165	825	1605
27.0	98%	92	40	32	546	120	303	30	1	30	77	27	NA	NA	NA	NA	1	30	77	30	690	165	1116	1971
31.5	98%	104	45	36	1092	120	353	30	2	30	77	27	1	30	77	27	NA	NA	NA	NA	905	140	1116	2161
36.0	98%	117	51	40	1092	120	403	40	2	30	77	27	NA	NA	NA	NA	1	30	77	30	1030	165	1488	2683
40.5	98%	129	56	45	1092	120	454	40	2	30	77	27	2	30	77	27	NA	NA	NA	NA	1105	280	1488	2873
45.0	98%	142	61	49	1092	120	504	50	2	30	77	27	1	30	77	27	1	30	77	30	1180	305	1860	3345
49.5	98%	NA	67	53	1092	120	555	50	2	30	77	27	1	30	77	27	1	30	77	30	1255	305	1860	3420
54.0	98%	NA	73	58	1092	120	605	60	2	30	77	27	NA	NA	NA	NA	2	30	77	30	1380	330	2232	3942

¹For 30 min. discharge time. For other discharge times, consult factory.

²Batteries are installed in the IPS cabinet for 4.5 to 9.0KVA systems, for 30 minutes only.

Ordering information

Series	System voltage	KVA/KW	Run time	External circuit breaker	Options	
EIII= Series	1= 120/208 4 wire in-out 2= 277/480 3= 347/600	A= 4.5 B= 9 C= 13.5 D= 18 E= 22.5 F= 27	G= 31.5 H= 36 I= 40.5 J= 45 ¹ K= 49.5 ² L= 54 ²	3= 30 minutes 6= 60 minutes 9= 90 minutes 12= 120 minutes	B= no breakers N####= normally on F####= normally off First two digits= Qty. 01 to 99 max (specify) Last two digits= Amp rating 10, 15, 20, 25... (specify) Example: N1020	A= fast recovery charge C= remote alarm panel E= output trip alarm G= "inverter on" dry contact H= normally off full capacity output I= extended battery warranty ¹ J= external maintenance bypass K= anchor mounting kit L= drip shield M= second output terminal block N= normally on & normally off output ² O= Bacnet Gateway
	Other voltages available using external transformer (sold separately)					
			¹ For 120 minutes run time, minimum 120/240VAC in/out			
			² Min. 277/480VAC in/out			
					¹ Consult your sales representative ² Full capacity available on either output	

Example: EIII1A3N1020

IPS Three Phase Series

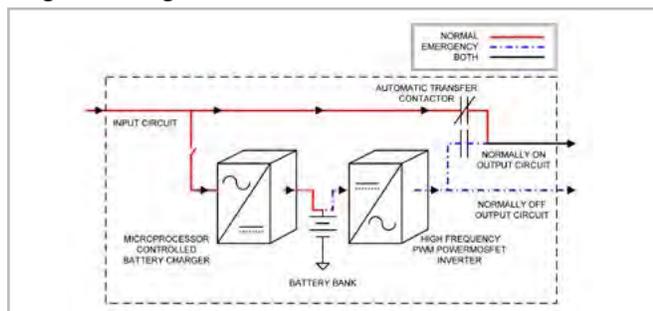
Interruptible emergency lighting inverter system 4.5KVA –54KVA

System specifications

General	
Design	Stand-by. PWM inverter type utilizing Power Mosfet technology with 500ms transfer time.
Control	Microprocessor controlled, 4 x 20-character display with touch pad controls & functions
Metering	Input & Output Voltage, Battery Voltage, Battery & Output Current, Output VA, Temperature
Communications	RS-485 MODBUS RTU Port (DB-9)
Electrical input	
Voltage	120/208, 277/480, 347/600VAC 3-phase 4-wire +10% / -15%.
Input frequency	60Hz
Electrical output	
Voltage	120, 277, 347VAC 2-wire or 120/240 3-wire, 1-phase
Dynamic voltage	+/-2% for +/-25% load step change, +/-3% for a 50% load step change, recovery within 3 cycles
Harmonic distortion	<5% THD for linear load
Output frequency	60Hz +/- 2Hz during emergency mode
Load power factor	0.7 lag to 0.9 lead
Inverter overload	120% continuous, 150% for 1 minute and 200% for 10 seconds
Protection	Optional external distribution circuit breaker
Crest factor	3
Environmental conditions	
Storage/transport	32°F to 104°F (0°C to 40°C) without batteries 68°F to 86°F (20°C to 30°C) with batteries ⁽¹⁾
Operating temperature	System operates safely from 32°F to 104°F (0°C to 40°C) but optimum operation is between 68° F and 77°F (20°C to 25°C). Battery performance can be affected by temperature.
Altitude	<10,000 feet (above sea level) without de-rating
Relative humidity	0 to 95% non-condensing
Audible noise	45 dBA at 1m from surface in emergency mode

⁽¹⁾Max. 3 months at 77°F-86°F (25°C-30°C)

Single line diagram



Cabinets

Modular design, freestanding NEMA type 1 steel cabinets powder coated for corrosion and scratch resistance. Front access design through hinged lockable doors requires only 42" front, 2" back and side clearance and 12" top clearance without drip shield. Top conduit entry Gland Plate.

Inverter

Using Power Mosfet/PWM technology the inverter converts DC voltage supplied by the batteries to AC voltage of a precise stabilized amplitude and frequency, suitable for most sophisticated electrical equipment. True sinusoidal output waveform with very low distortion (less than 5% for linear loads). Overload capability of 120% continuous, 150% for 1 minute and 200% for 10 seconds.

Charger

Fully automatic, temperature compensated, charger recharges fully discharged batteries in maximum 24 hours at nominal AC input voltage. AC input current limiting and over-voltage protection included.

Battery

System is provided standard with 10 year, maintenance free, sealed valve regulated, lead calcium batteries. 30, 60, 90 & 120 min. standard discharge time at full load under normal operating temperature (20°C to 25°C). Low Voltage Disconnect protection included. No special ventilation required.

Supervision

Automatic self tests consist of a 2-minute monthly, 1/3 discharge at 6 months and full annual discharge. The front-mounted control panel includes, a 4-line 20-character LCD display with keypad to control and monitor the operation of the system. This allows the operator to easily "watch" system functions as they occur and check on virtually any aspect of the system's operation. Standard RS485 MODBUS RTU diagnostic interface.

Alarms

Battery High/Low, Low Voltage Disconnect, Battery Disconnect, Maintained Lamp Off, Charger Fail, Supply From Battery, System Inhibit, Circuit Breaker Trip, Module Breaker Trip, Inverter Undervoltage, Inverter Overvoltage, Output Overcurrent, Hi Temp, Over Temp, Unit in Bypass, Inverter Frequency Control Failed, Processor Reset.

Optional features

External Output Circuit Breakers, Output Trip Alarms, Extended Battery Warranty, 12 Hours Fast Recharge, External Maintenance Bypass Switch, Remote Meter Panel, Ethernet Port, NEXUS® System Interface. Dripshield, Remote Alarm Panel, Normally Off Output, Anchor Mounting Brackets, Dry Contact Relay, Bacnet Gateway.

Factory start-up

Includes one additional year of warranty. See warranty conditions.

Warranty

(Full limited warranty conditions available upon request)

Limited manufacturer warranty is one-year, parts and labor, for system electronics. Battery warranty is one year full plus 9 years pro-rata for a total of 10 years, under normal operating conditions. System must be put in service within 6 months from ship date in order to validate warranty. Consult factory for other battery types.

System Options

Details

(-A) 12 hour fast recharge

Battery charger upgrade option which decreases the time required to recharge a fully discharged battery to a fully charged state. The normal 24 hour recharge time is reduced to a 12 hour period.

(-C) Remote summary alarm panel

Wall mountable box provides visual and audible alarms with silence switch. The panel consists of LED indicators and built in audible alarm and may be located up to 1,000 feet away from the inverter system.

(-E) Output trip alarm

System triggers an alarm when any output breaker trips.

(-G) Inverter on dry contacts

Form C dry contacts that will change state when the system transfers to battery.

(-H) Normally off output

This output circuit is dedicated for the emergency only equipment. Emergency only equipment operates during power outages and when the system is on battery back up. This option leaves the normally off load circuits off during normal utility power conditions.

(-I) Extended battery warranty

Extends battery warranty from 10 years pro-rated to 20 years pro-rated.

(-J) External maintenance bypass switch

The external maintenance bypass switch is mounted in a maximum of 42"H x 36"W x 12"D NEMA 1 separate enclosure, used to completely isolate the inverter system from the connected load and AC utility input. This option allows the system to be safely powered down for maintenance or service.

(-K) Anchor mounting kit

The anchor mounting kit option is designed to prevent system movement. Heavy duty brackets are provided to secure system cabinetry to your surfaces.

(-L) Drip shield

Hood cover to protect the enclosure against falling water from sprinkler systems.

(-M) Second output terminal block

The output of the Central System is divided into two. The load can be connected to either outputs.

(-N) Normally on & normally off outputs

The Central System can have both normally on and normally off outputs. Either output can handle 100% of the load.

(-O) Bacnet Gateway

Allows communication with Bacnet network.

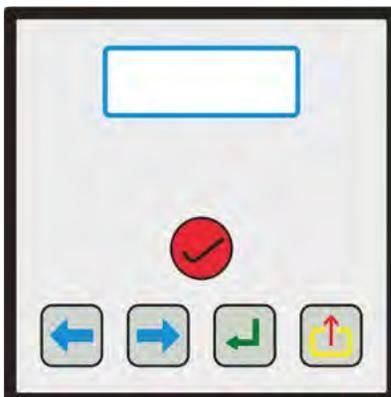
User Interface & Display Functions

Meter & reading functions menu

- AC voltage output
- AC current output normally on
- AC current output normally off
- Battery voltage
- Battery charging current
- Battery discharging current
- KVA total output
- Cabinet internal temperature
- Inverter frequency
- Real time clock
- Time delay
- Monthly test result
- Half-year test result
- Annual test result
- Event log reading

Service menu functions

- Passkeyword protected
- Set battery voltage & current ranges
- Set system voltage & current ranges
- Set system phase
- Set normally OFF load
- Set language
- Set real time clock & calendar
- Set time delay function
- Set manual test duration
- Set self test sequence
- Set buzzer function



Administration menu functions

- Passkeyword protected
- Read/set serial number
- Read/set manufacturing date
- Read/set installation date
- Read firmware version
- Read/clear battery elapse time
- Read/clear total power failures
- Read/clear total alarms
- Clear event log
- Enter calibration routine

Alarm and events

- Event logging (1000) type date & hour
- Transfer mode
- Standby
- Load off
- Stop mode
- Lock-out mode
- Forced transfer
- Battery volt
- Battery disconnect
- Mains out of range
- Manual test
- Monthly test
- Half year test
- Yearly test
- Modbus transfer

System testing

EMEX Central Battery Systems provide manual and automatic test functions. Manual test can be activated any time using the test key provided on the control panel. Manual testing will do a programmable fixed test time and can be aborted any time by pushing again on the test key. Automatic test and diagnostic is done following an annual sequence. Every month a quick diagnostic test of 2 minutes is performed. At the 6 month mark, a 1/3 timed discharge test is done, and at the 12 month, a full discharge, down to LVD is performed. Pass/Fail and discharge time are registered in the event log. Test time and date is programmed using the Service Menu.

Central System Request Data

1) Input voltage

- | | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------|
| Single phase (2 wire + ground) | 120VAC <input type="checkbox"/> | 208VAC <input type="checkbox"/> | 277VAC <input type="checkbox"/> | 347VAC <input type="checkbox"/> |
| Single phase (3 wire + ground) | 120/240VAC <input type="checkbox"/> | | | |
| Three phase (4 wire + ground, Y) | 120/208VAC <input type="checkbox"/> | 277/480VAC <input type="checkbox"/> | 347/600VAC <input type="checkbox"/> | |
| Three phase (3 wire + ground, Δ) | 208VAC <input type="checkbox"/> | 480VAC <input type="checkbox"/> | 600VAC <input type="checkbox"/> | |

2) Output voltage

- | | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------|
| Single phase (2 wire + ground) | 120VAC <input type="checkbox"/> | 208VAC <input type="checkbox"/> | 277VAC <input type="checkbox"/> | 347VAC <input type="checkbox"/> |
| Single phase (3 wire + ground) | 120/240VAC <input type="checkbox"/> | 120/277VAC <input type="checkbox"/> | | |
| Three phase (4 wire + ground, Y) | 120/208VAC <input type="checkbox"/> | 277/480VAC <input type="checkbox"/> | 347/600VAC <input type="checkbox"/> | |

3) System capacity

KVA rating: _____

- a) Please consider total power consumption of the complete fixture, not just the lamp wattage
- b) Even if the systems can run with 100% load, it is recommended as standard practice to use a system with a capacity at least 20% over maximum connected load

4) Runtime

- 30 minutes 60 minutes 90 minutes 120 minutes
- Other _____

5) Type of loads

- Incandescent Fluorescent L.E.D.
- Other _____

6) Mode of operation

- Normally ON (24/7) Normally OFF (emergency only)

7) Output circuit breakers

- | | | | | | |
|---------------|------------|------------------|--|---|-------------------------------------|
| # of CB _____ | Amps _____ | # of poles _____ | Normally "On" <input type="checkbox"/> | Normally "Off" <input type="checkbox"/> | Trip alarm <input type="checkbox"/> |
| # of CB _____ | Amps _____ | # of poles _____ | Normally "On" <input type="checkbox"/> | Normally "Off" <input type="checkbox"/> | Trip alarm <input type="checkbox"/> |

8) Options (refer to available options for each system type)

- | | |
|--|--|
| <input type="checkbox"/> (-A) 12 hour fast recharge | <input type="checkbox"/> (-K) Anchor mounting kit |
| <input type="checkbox"/> (-C) Remote summary alarm panel | <input type="checkbox"/> (-L) Drip shield |
| <input type="checkbox"/> (-E) Output trip alarm | <input type="checkbox"/> (-M) Second output terminal block |
| <input type="checkbox"/> (-G) Inverter On dry contacts | <input type="checkbox"/> (-N) Normally On & Normally Off outputs |
| <input type="checkbox"/> (-H) Normally Off output | <input type="checkbox"/> (-O) Bacnet Gateway |
| <input type="checkbox"/> (-I) Extended battery warranty | |
| <input type="checkbox"/> (-J) External maintenance bypass switch | |

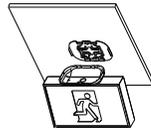




Options &
accessories

Table of contents

Options & accessories



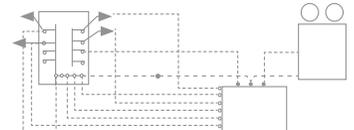
EZ2™ Canopy

188



**Wire Guards and
Mounting Shelves**

190



ZCB Series

192



Nexus®RF

194



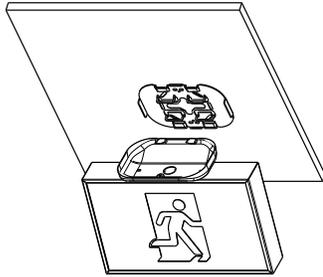
Nexus®Pro

195

= New product

EZ2™ Canopy

Quick & easy installation



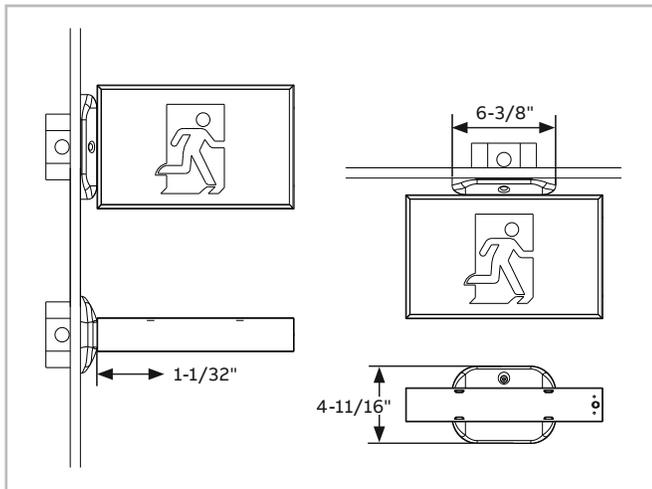
Typical specifications

The **EZ2™ Canopy** allows the installer to make all of the electrical connections using both hands without having to juggle with the exit sign, making it our most contractor friendly product feature to date.

Simply attach the backplate to the junction box, clip the canopy on the exit sign, hang the canopy on the back plate, make your connections using both hands, slide the unit in place, one screw and the job is done!

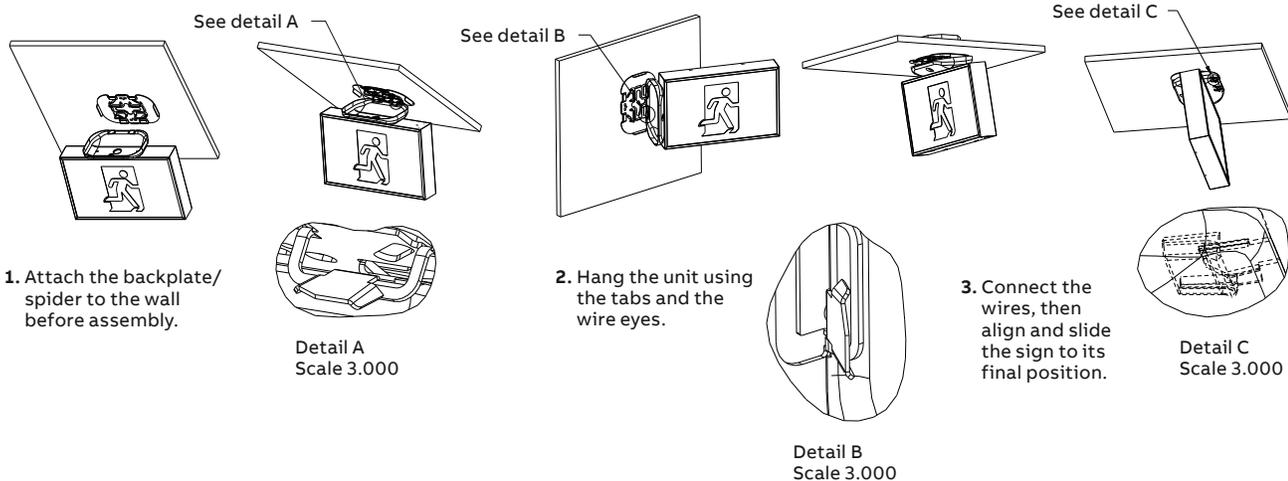
Dimensions

Dimensions are approximate and subject to change.



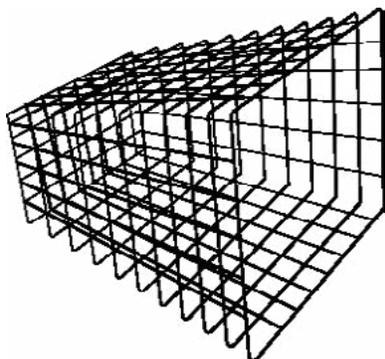
Installation

- 1) Attach the backplate to the junction box, clip the canopy on the exit sign
- 2) Hang the canopy on the back plate, make your connections using both hands
- 3) Slide the unit in place, one screw and the job is done!





Wire Guards



Exit signs

Part #	Mounting	Signs		Dimensions		
				W	H	D
460.0027-E	End mount	LPEX600-N Series - Nema-4X Exit	EX10 EN ES	10 1/2" (26.7 cm)	6" (15.2 cm)	16" (40.6 cm)
460.0028-E	Ceiling mount	LPEX600 - Nema-4X	EX10 EN ES	14 1/2"(36.8 cm)	6 1/4" (15.9 cm)	10 1/2" (26.5 cm)
460.0048-E	End mount		C8SR10	10 1/2" (26.7 cm)	6" (15.2 cm)	21" (53.3 cm)
460.0057-E	Wall mount		C8SR10	20 3/4" (52.7 cm)	10" (25.4 cm)	4" (10.2cm)
460.0058-E	Ceiling mount		C8SR10	21 3/4" (55.2 cm)	5 1/2" (14 cm)	10 1/2" (26.7cm)
460.0059-E	Wall mount	C8SE10	C8ES10	31" (86.4 cm)	10" (25.4 cm)	4 1/2" (14 cm)
460.0060-E	End mount	LPEX600-N - Nema-4X Combo	EX10-P	20" (50.8 cm)	12" (30.5 cm)	15" (38.1 cm)
460.0060-E	Wall mount	EN LPEX600-N Combo	EX10-P	20" (50.8 cm)	12" (30.5 cm)	15" (38.1 cm)
460.0078-E	Wall mount	LPEX600-N - Nema-4X Combo	EX10-P ENC Premier™ Combo	18" (45.7 cm)	18" (45.7 cm)	7" (17.8 cm)
460.0079-E	Wall mount	LPEX600 - Nema-4X	EX10 Premier™ Exit EN ES	14 1/4" (36.2 cm)	9 7/8" (25.0 cm)	4 5/8" (11.7 cm)
460.0080-E	Wall mount	EXHZ combo (class1 Div2)	LPEXHZ Exit	15 1/4" (38.7 cm)	14 1/8" (35.9 cm)	6 1/2" (16.5 cm)
460.0081-E	Wall mount	EAC, EX10-P, SR, ESC		20" (50.8 cm)	17 1/8" (43.6 cm)	8 1/2" (21.6 cm)
460.0091-E	Wall mount	EX10-P		15" (38.1 cm)	10 1/2" (26.7 cm)	1" (2.5 cm)
460.0092-E	Ceiling mount	C8SR10	EX10-P	31" (53.3 cm)	4.5" (11.4 cm)	10" (25.4 cm)
460.0104-E	End mount	C8SR10		25" (63.5 cm)	10" (25.4 cm)	20" (50.8 cm)

Wire Guards & Mounting Shelves

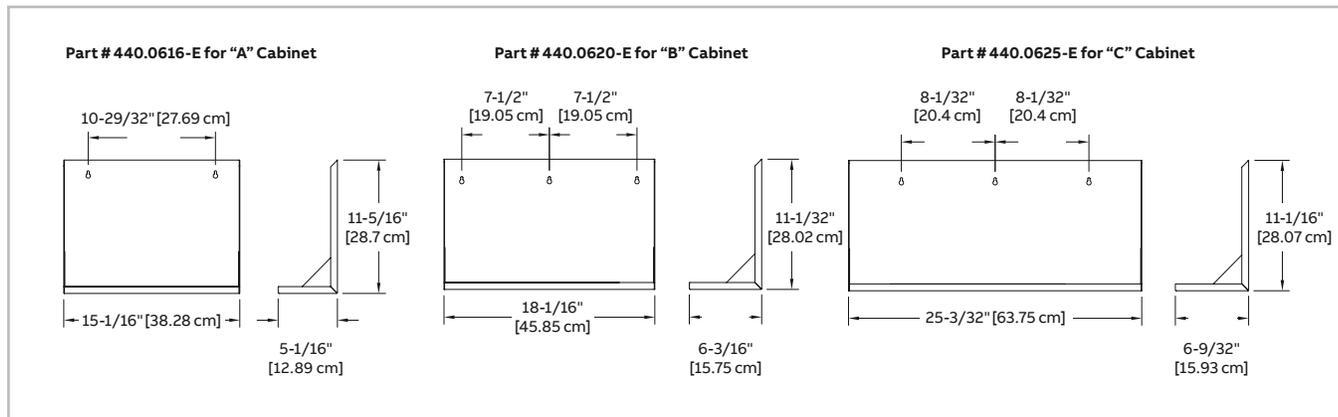
Battery units

Part #	Mounting	Commercial, deco unit	Dimensions		
			W	H	D
460.0078-E	Wall mount	"A" cabinet-6V, 12V, 24V-Max. 144W	18" (45.7 cm)	8" (20.32 cm)	7" (17.7 cm)
460.0081-E	Wall mount	"B" cabinet-6V-180W 12V-200 to 360W 24V-200 to 288W	20" (50.8 cm)	17 1/8" (43.6 cm)	8 1/2" (21.6 cm)
460.0034-E 460.0097-E	Wall mount	"C" cabinet-12V-650 watts 24V-350 to 720W Q-BIC	28 1/8" (71.5 cm)	21 1/8" (53.7 cm)	10" (25.4 cm)
460.0080-E	Wall mount	6V, 12V - 18 to 72W	31" (53.3 cm)	70" (17.8 cm)	6" (15.2 cm)
460.0105-E	Wall mount	IPE - 48"	15 1/4" (38.7 cm)	14 1/8" (35.9 cm)	6 1/2" (16.5 cm)
			54.6" (138.68 cm)	8" (20.32 cm)	5" (12.7 cm)

Remote heads

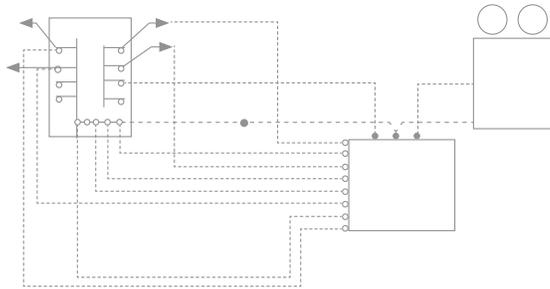
Part #	Remote heads	Dimensions		
		W	H	D
460.0029-E	EF9M	8 1/4" (21.5 cm)	6 1/4" (15.9 cm)	6 3/4" (17.2 cm)
460.0031-E	EF26D	25 1/4" (64.1 cm)	8 1/2" (21.5 cm)	8 1/2" (21.5 cm)
460.0032-E	EF26DS, EF150	9 1/2" (24.1 cm)	9 1/2" (24.1 cm)	6 1/8" (15.6 cm)
460.0035-E	EF26, EF39, EF40	8 1/4" (21.5 cm)	6 1/4" (15.9 cm)	8 1/2" (21.5 cm)
460.0082-E	Literay™, Lux-Ray™, Retract-a-Lite™	12" (30.5 cm)	9" (22.9 cm)	9" (22.9 cm)
460.0100-E	Provider™	14" (35.6 cm)	5.8" (14.7 cm)	5.6" (14.2 cm)

Mounting shelves



ZCB Series

Zone Control Box



Features

Introduction

The **Emergi-Lite® ZCB Zone Control Box** is required in buildings where the path of egress for emergency lighting crosses through several areas and each area has a separate electrical circuit and breaker for lighting. In such circumstances a local power failure in one area (zone) may not trigger the emergency lighting connected to a different electrical circuit. The requirement for the zone control function is specified in the National Building Code of Canada and the Canadian Electrical Code:

- NBCC 9.9.12.3. (3) Lighting required in Sentence (1) shall be designed to be automatically actuated for a period of at least 30 min when the electric lighting in the affected area is interrupted.
- CEC C22.1-12 46-304 (4) Unit equipment shall be installed in such a manner that it will be automatically actuated upon failure of the power supply to the normal lighting in the area covered by that unit equipment.

Description

The ZCB has several inputs to detect the AC voltage of each zone. It will activate all the emergency lighting if at least one zone becomes de-energized through either a power failure or lighting circuit breaker tripping. This greatly enhances the life safety system, as any failure of a lighting circuit will ensure emergency egress lighting in the entire building. As an optional feature, the ZCB can include test buttons and/or pilot lights, enabling individual testing of each zone circuit monitored. The ZCB can be included as an option in the **Emergi-Lite®** emergency lighting battery unit, with maximum 6 zone circuits. For a larger number of zones the ZCB is available in a separate enclosure (extension module).

Typical specifications

ZCB Zone Control stand-alone extension module

Supply and install **Emergi-Lite® ZCB Series** Model _____ of Zone Control Box. The equipment shall have _____ (maximum 24) inputs for line voltage detection from different building zones. The wire connection from each zone circuit shall be made with terminal blocks. The value of each zone voltage shall be: _____ VAC. The output circuit shall be a dry-contact relay, normally closed and shall be accessible for connection on a terminal block. The output circuit shall be connected at installation in series with the AC line supplying the battery unit equipment. The value of output line voltage shall be: _____ VAC. In the case of power failure of one or several zones the output circuit will open and transfer the battery unit(s) in emergency lighting mode. When specified the equipment shall include a 'push to test' push button and/or a pilot light for each zone circuit for manual testing and service. The unit shall be certified CSA 22.2 No.141-10.

The unit shall be **Emergi-Lite®** model: _____ .

Battery unit equipment with ZCB Zone Control option

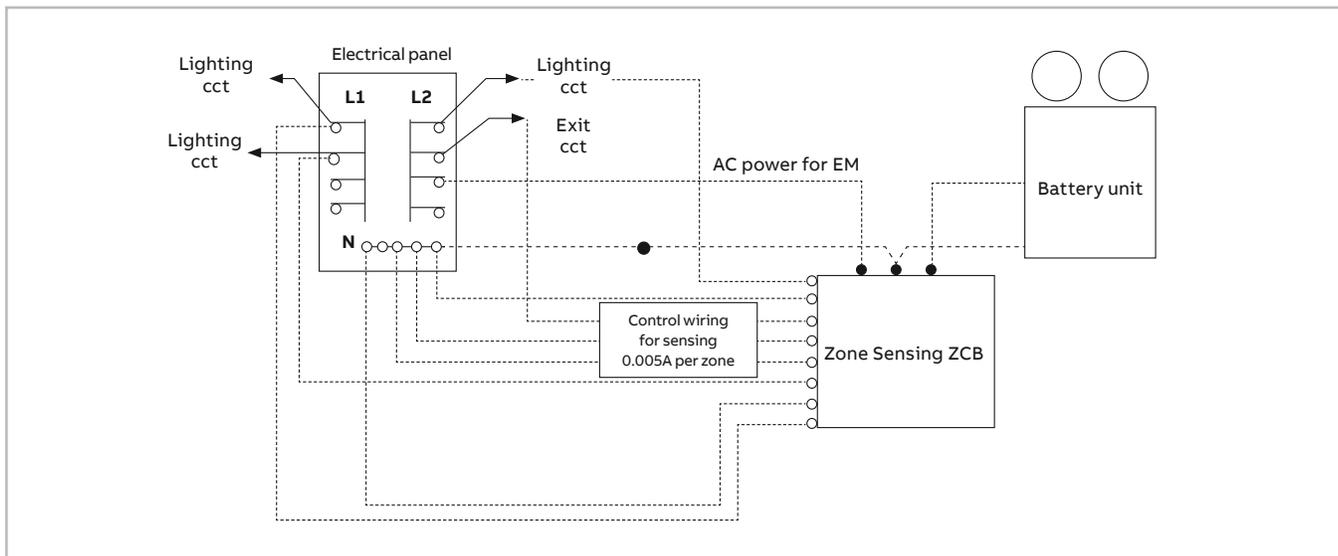
When specified, the equipment shall have _____ (maximum six) inputs for line voltage detection from different building zones. The wire connection from each zone circuit shall be made with terminal blocks. The value of each zone voltage shall be: _____ VAC. In the case of a power failure of one or several zones the circuit will transfer the battery unit to emergency lighting mode for minimum 30 minutes. When specified the equipment shall include a 'push to test' push button and/or a pilot light for each zone circuit for manual testing and service. The unit shall be certified CSA 22.2 No.141-10.

The unit shall be **Emergi-Lite®** model: _____ .

ZCB Series

Zone Control Box

Typical wiring of stand-alone ZCB zone sensing



Ordering information – Stand-alone zone sensing extension module

AC output to battery unit(s) (AC current draw: 8a max.)	Series	Number of zone circuits	AC input of zones	Battery unit	Cabinet type	Options
1= 120VAC 3= 347VAC	ZCB	2Z= 2 zones 3Z= 3 zones _Z= _ zones ¹	1= 120VAC 3= 347VAC	U1= 1 unit	A= A cabinet (max. 4 circuits) ¹ B= B cabinet (max. 8 circuits) C= C cabinet (max. 24 circ. 120V; 16 circ. 347V) ² PK= fiberglass (max.12 circuits)	PB= zone(s) test button ¹ PL= zone(s) pilot lamp ¹
Example: 1ZCB1Z1U1APB		¹ Max 24 zones Refer to cabinet type			¹ For 4 zones and combined PBPL options, use B cabinet ² Max. 16 zones and combined PBPL option	¹ Only with cabinets: A, B and C

Ordering information – Battery unit with internal zone sensing option

Battery unit cat. construct	Unit AC input		Zone sensing internal	Options			Battery unit cat. construct
	Mandatory for ZCB	Battery unit cat. construct		# of zones	Zone AC	Zone options	
ESL Series pp. 126-127	-1= 120VAC -3= 347VAC	ESL Series pp. 126-127	ZCB= zone sensing	2Z= 2 zones 3Z= 3 zones	1= 120VAC 3= 347VAC	PB= zone(s) test button PL= zone(s) pilot lamp	ESL Series pp. 126-127
Distinction Series pp. 130-131		Distinction Series pp. 130-131					Distinction Series pp. 130-131
24ESL350		U					/2MS

Example: 24ESL350-1UZCB2Z1PB/2MS

Additional zone circuits (max. 6)

OPTIONS & ACCESSORIES

Nexus® RF

Wireless and wired solutions for safer buildings

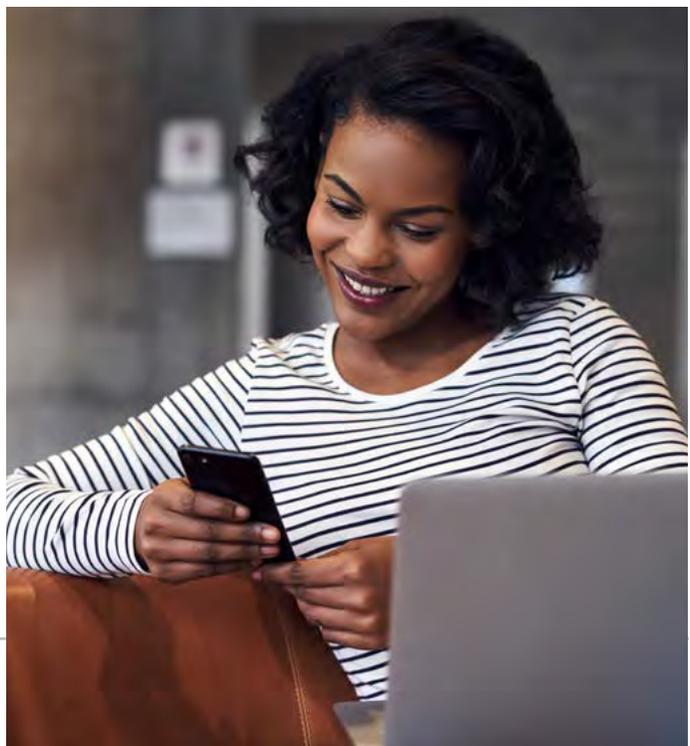
The Nexus®RF system has been designed to enable maintenance personnel to easily test and maintain the emergency lighting system.

Nexus®RF provides building owners and managers with the tools to effectively manage emergency lighting including:

- Conduct all testing remotely without having to disrupt the power supply.
- Monitor emergency lighting in a number of facilities from one location.
- Plan maintenance activities based on real-time unit status.
- Maintain maintenance logs and generate reports to comply with the Building and Life Safety code.
- Manage installations and component removal.
- Eliminate emergency lighting testing cost.

Nexus® is available in two separate configurations:

- 1. Nexus®Wired:** a cabled system designated which utilises the LonWorks protocol and relies upon data cable for communication between units and network infrastructure. A server computer, running Nexus® software, provides the user interface to the system.
- 2. Nexus®RF:** a wireless system which uses a proprietary protocol for radio frequency wireless communication between the units and network infrastructure. This system does not require a server computer, nor does it require data cabling to units. User interaction with Nexus®RF is via a website browser on any computer with access to the network.



Nexus® Pro

Smarter Technology. Safer Lives

Nexus® Pro is an IoT emergency lighting system designed to enable building owners and managers to easily maintain and test emergency lighting, without the need to visually verify performance or disrupt the power supply.

With digital solutions, building owners now can have peace of mind knowing their buildings are safer than ever. All operations can be managed remotely, giving building owners and managers complete control wherever they are, whenever they need it most while preventing any human error in the process.

- Reduces human error while enhancing safety for all building occupants by meeting code and compliance and 24/7 monitoring.
- User-friendly app makes emergency lighting management easier and more efficient while reducing your maintenance costs.
- ABB Gateway keeps your fixtures secure from development to deployment. Nexus® Pro uses Bluetooth mesh technology to exchange data between your emergency lighting devices.
- Easily go from one building to many. Nexus® Pro gateway can establish a secure wireless connection with up to 200 emergency lighting units.
- Available offering for educational, institutional, high security, architectural, healthcare and industrial applications. Nexus® Pro can fit any scale of project to meet different budgets.

The system can bring connected lighting to architectural, commercial, institutional, high-security, healthcare, and industrial locations.

You can simply monitor any of your building installations from anywhere at any time to suit you and concentrate your resources where they are most needed. Nexus® Pro grows with you and puts you in total control.



Technical information



Table of contents

Technical information

 <p>Wire size guide</p> <p>198</p>	 <p>Battery unit capacity cart</p> <p>199</p>	 <p>Electrical code</p> <p>200</p>
 <p>Building code</p> <p>202</p>	 <p>Fire & generator room code</p> <p>206</p>	 <p>Product index</p> <p>208</p>

Wire size guide

When remote fixtures and exit signs are connected to emergency lighting units of less than 50 volts, circuit runs must be sufficient size to maintain a proper operating voltage to all lamps. The maximum allowable voltage drop should not exceed 5%. Proper wire size can be selected from the following table or by use of the following formula:

$CM = \frac{22 \times W \times L}{.05 \times E^2}$	CM= Wire size in circular mills	E= Line voltage
	W= Emergency load in watts	22= Constant
	L= Length of circuit in feet	.05= Factor for max. allowable voltage drop

Length of wire run (in feet)

	Wire size	Watts														
		13	18	25	30	35	50	60	75	100	150	200	250	300	400	
6 volts	12	41	30	21	18	15	11	9	8	6	4	-	-	-	-	
	10	65	47	32	28	24	17	14	11	9	6	-	-	-	-	
	8	110	75	54	45	39	27	22	18	14	9	7	-	-	-	
	6	165	120	86	71	62	43	36	29	22	15	11	9	-	-	
12 volts	12	165	110	85	71	61	42	35	29	21	14	10	8	-	-	
	10	260	190	136	112	97	68	52	45	34	23	17	21	18	-	
	8	415	300	215	180	154	108	90	72	54	36	27	21	18	-	
	6	660	475	340	285	245	170	140	114	86	57	43	34	28	-	
	4	1050	760	540	455	390	275	225	182	137	91	68	55	45	-	
24 volts	12	660	440	340	284	244	168	140	116	84	56	40	32	26	21	
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	34	
	8	1668	1200	860	720	616	432	360	288	216	144	108	84	72	54	
	6	24640	1900	1360	1140	1560	1100	900	728	548	364	272	220	180	100	
	4	4200	3040	2160	1810	1560	1100	900	728	548	364	272	220	180	100	
32 volts	12	1160	840	600	500	435	300	250	200	150	100	75	60	50	42	
	10	-	1340	960	800	690	480	400	32	24	160	120	96	80	63	
	8	-	-	1540	1280	1110	770	640	510	385	255	192	154	128	100	
	6	-	-	-	-	1740	1220	1020	815	610	405	305	240	200	163	
	4	-	-	-	-	-	-	1620	1300	970	650	485	390	325	260	
48 volts	12	-	1899	1367	1139	949	680	-	455	341	227	170	136	113	68	
	10	-	-	-	1811	1509	1085	-	724	543	362	271	217	181	108	
	8	-	-	-	-	-	1729	-	1152	864	576	432	345	288	172	
	6	-	-	-	-	-	-	-	1832	1374	926	687	549	458	274	
120 volts	12	14964	-	7792	-	-	3896	-	-	1945	1300	977	720	650	608	
	10	23787	-	12367	-	-	6193	-	-	3093	2067	1553	1238	1033	966	
	8	37810	-	19705	-	-	9852	-	-	4820	3289	2471	1970	1644	1538	
	6	60159	-	331327	-	-	15663	-	-	7822	5229	3929	3132	2614	2445	

Battery unit capacity chart

Battery unit	Wattage capacity				
	30 min	1H00	1H30	2H00	4H00
6V - 36W	36	21	15	12	6
6V - 72W	72	42	30	24	12
6V - 108W	108	63	45	36	18
6V - 180W	180	105	75	60	30
12V - 36W	36	21	15	12	6
12V - 72W	72	42	30	24	12
12V - 100W	100	58	42	33	17
12V - 144W	144	84	60	48	24
12V - 200W	200	117	83	67	33
12V - 250W	250	144	100	83	42
12V - 288W	288	168	120	96	48
12V - 360W	360	210	150	120	60
24V - 144W	144	84	60	48	24
24V - 200W	200	117	83	67	33
24V - 288W	288	168	120	96	48
24V - 350W	350	200	144	120	60
24V - 432W	432	250	180	144	72
24V - 550W	550	320	230	180	90



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Electrical Code

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Section 46 — Emergency power supply, unit equipment, exit signs, and life safety systems

46-000 Scope (see Appendix B)

- 1 This Section applies to the installation, operation, and maintenance of
 - (a) emergency power supply and unit equipment intended to provide power to life safety systems; and
 - (b) emergency power supply and unit equipment intended to provide illumination of exit signs, in the event of failure of the normal supply, where the emergency power supply is required by the National Building Code of Canada.
- 2 This Section applies to the wiring between the emergency power supply and life safety systems that are required by the National Building Code of Canada to be provided with an emergency power supply
- 3 This Section applies to the wiring of exit signs
- 4 The requirements of this Section supplement or amend the general requirements of this Code

46-002 Special terminology (see Appendix B)

In this Section, the following definitions apply:

Emergency power supply

Emergency power, supplied by a generator, batteries, or a combination thereof, that is required by the National Building Code of Canada.

Life safety systems

Emergency lighting and fire alarm systems that are required to be provided with an emergency power supply from batteries, generators, or a combination thereof, and electrical equipment for building services such as fire pumps, elevators, smoke-venting fans, smoke control fans, and dampers that are required to be provided with an emergency power supply by an emergency generator in conformance with the National Building Code of Canada.

Unit equipment

Unit equipment for emergency lighting conforming to CSA C22.2 No. 141.

General

46-100 Capacity

Emergency power supply and unit equipment shall have adequate capacity and rating to ensure the satisfactory operation of all connected equipment when the principal source of power fails.

46-102 Instructions

- 1 Complete instructions for the operation and care of an emergency power supply or unit equipment that shall specify testing at least once every month to ensure security of operation shall be posted on the premises in a frame under glass.
- 2 The form of instructions and their locations shall be in compliance with the National Building Code of Canada.

46-104 Maintenance

Where batteries are used as a source of the emergency power supply, the batteries shall be kept

- (a) in proper condition; and
- (b) fully charged at all times

46-106 Arrangement of lamps

- 1 Emergency lights shall be arranged so that the failure of any one lamp will not leave in total darkness the area normally illuminated by it.
- 2 No appliance or lamp, other than those required for emergency purposes, shall be supplied by the emergency circuits.

46-108 Wiring method (see Appendices B and G)

- 1 Except as permitted by Subrule (3), Rule 46-304(3), and Rule 46-400(2), the following conductors shall be installed in accordance with Subrule (2):
 - (a) conductors required for operation of life safety systems and installed between an emergency power supply and life safety systems;
 - (b) conductors between an emergency power supply and exit signs; and
 - (c) conductors between unit equipment and remote lamps.
- 2 Conductors described in Subrule (1) shall be
 - (a) installed in metal raceway of the totally enclosed type;
 - (b) incorporated in a cable having a metal armour or sheath;
 - (c) installed in rigid non-metallic conduit; or
 - (d) installed in electrical non-metallic tubing where embedded in at least 50 mm of masonry or poured concrete.
- 3 Not with standing Subrule (2), conductors installed in buildings of combustible construction in accordance with Rules 12-506 to 12-520 shall be permitted to be
 - (a) run as a non-metallic-sheathed cable; or
 - (b) installed in a totally enclosed non-metallic raceway.
- 4 Conductors installed in accordance with Subrule (1) shall be kept entirely independent of all other conductors and equipment and shall not enter a luminaire, raceway, box, cabinet, or unit equipment occupied by other conductors except where necessary
 - (a) in transfer switches; and
 - (b) in exit signs and emergency lights supplied from two sources.
- 5 Conductors between an emergency power supply and any electrical equipment that is not defined as a “life safety system” in accordance with this Section shall not enter a luminaire, raceway, box, or cabinet occupied by conductors installed as described in Subrule (1), except where necessary in busways, splitters, and other similar enclosures provided for connection to the overcurrent device for an emergency power supply described in Rule 46-208(1).

Emergency power supply

46-200 Emergency power supply (see Appendix B)

Rules 46-202 to 46-212 apply only to emergency power supply from central standby power sources.

46-202 Types of emergency power supply (see Appendix G)

- 1 The emergency power supply shall be a standby supply consisting of
 - (a) a storage battery of the rechargeable type having sufficient capacity to supply and maintain at not less than 91% of full voltage the total load of the emergency circuits for the time period required by the National Building Code of Canada, but in no case less than 30 min, and equipped with a charging means to maintain the battery in a charged condition automatically; or
 - (b) a generator.
- 2 Automobile batteries and lead batteries not of the enclosed glass-jar type are not considered suitable under Subrule (1) and shall be used only where a deviation has been allowed in accordance with Rule 2-030.
- 3 Where a generator is used, it shall be
 - (a) of sufficient capacity to carry the load;
 - (b) arranged to start automatically without failure and without undue delay upon the failure of the normal power supply to any transfer switch connected to this generator; and
 - (c) in conformance with CSA C282.

Electrical Code

Extracts from the Canadian Electrical Code 2015

46-204 Protection of electrical conductors (see Appendices B and G)

All power, control, and communication conductors between an emergency generator as described in Rule 46-202(3), and electrical equipment required to be installed as a part of the emergency power supply and located outside the generator room shall be protected against fire exposure to provide continued operation in compliance with the National Building Code of Canada.

46-206 Control

- 1 An emergency power supply shall be controlled by automatic transfer equipment that actuates the emergency power supply upon failure of the normal current supply and that is accessible only to authorized persons.
- 2 An automatic light-actuated device, approved for the purpose, shall be permitted to be used to control separately the lights located in an area that is adequately illuminated during daylight hours without the need for artificial lighting.

46-208 Overcurrent protection

- 1 The overcurrent device for an emergency power supply shall be coordinated with the overcurrent devices of feeders and branch circuits supplying life safety systems and other electrical equipment connected to the emergency power supply in order to provide selective operation of the branch circuit overcurrent device when a fault occurs in that branch circuit.
- 2 The branch circuit overcurrent devices shall be accessible only to authorized persons.

46-210 Audible and visual trouble-signal devices

- 1 Every emergency power supply shall be equipped with audible and visual trouble-signal devices that warn of derangement of the current source or sources and that indicate when exit signs or life safety systems are supplied from the emergency power supply.
- 2 Audible trouble signals shall be permitted to be wired so that
 - (a) they can be silenced, but a red warning or trouble light shall continue to provide the protective function; and
 - (b) when the system is restored to normal, the audible signal will
 - (i) sound, indicating the need to restore the silencing switch to its normal position; or
 - (ii) reset automatically so as to provide sound for any subsequent operation of the emergency power supply.

46-212 Remote lamps

Lamps shall be permitted to be mounted at some distance from the current supply that feeds them, but the voltage drop in the wiring feeding such lamps shall not exceed 5% of the applied voltage.

Unit equipment

46-300 Unit equipment (see Appendix B)

Rules 46-302 to 46-306 apply to individual unit equipment for emergency lighting only.

46-302 Mounting of equipment

Each unit equipment shall be mounted with the bottom of the enclosure not less than 2 m above the floor, wherever practicable.

46-304 Supply connections

Each unit equipment shall be mounted with the bottom of the enclosure not less than 2 m above the floor, wherever practicable.

- 1 Receptacles to which unit equipment is to be connected shall be not less than 2.5 m above the floor, where practicable, and shall be not more than 1.5 m from the location of the unit equipment.

- 2 Unit equipment shall be permanently connected to the supply if
 - (a) the voltage rating exceeds 250 V; or
 - (b) the marked input rating exceeds 24 A.

- 3 Where the ratings in Subrule (2) are not exceeded, the unit equipment shall be permitted to be connected using the flexible cord and attachment plug supplied with the equipment.

- 4 Unit equipment shall be installed in such a manner that it will be automatically actuated upon failure of the power supply to the normal lighting in the area covered by that unit equipment.

46-306 Remote lamps (see Appendix B)

- 1 The size of circuit conductors to remote lamps shall be such that the voltage drop does not exceed 5% of the marked output voltage of the unit equipment, or such other voltage drop for which the performance of unit equipment is certified when connected to the specific remote lamp being installed.
- 2 Remote lamps shall be suitable for remote connection and shall be included in the list of lamps provided with the unit equipment.
- 3 The number of lamps connected to a single unit equipment shall not result in a load in excess of the watts output rating marked on the equipment for the emergency period required by the National Building Code of Canada, and the load shall be computed from the information in the list of lamps referred to in Subrule (2).

Exit signs

46-400 Exit signs

Location requirements for exit signs are set out in the NBCC. Rule 46-400 covers only their connection to a power supply. Rule 46-400 also covers connection of circuits supplying lighting in the area where externally illuminated exit signs are installed in accordance with the NBCC requirements.

If an exit sign is required by the NBCC and is electrically illuminated, Subrule (1) requires that the power for the exit sign be provided by a branch circuit that supplies only other exit signs.

Subrule (2) exempts the circuit supplying only exit signs to allow it to supply emergency lighting in the area where the exit signs are located.

However, in an area where exit signs are installed and where emergency lighting is required by the NBCC or local building codes, Subrule (3) requires that exit signs must also be illuminated by an emergency power supply. This ensures that the exit sign is provided with a minimum illumination whenever the emergency lighting is energized.

Subrule (4) requires that the luminaires used to illuminate exit signs are to meet the circuit requirements of Subrule (1) and (2) and the illumination requirements of Subrule (3).

Note (2) to Rule 46-400 in Appendix B cautions that the circuit supplying both emergency lighting and exit signs not be controlled by a switch, time clock, or other disconnecting means.

Building Code

Extracts from the National Building Code of Canada 2015

3.2.6. Requirements for High Buildings

3.2.6.1. Application

- 1 This Subsection applies to a building
 - a) of Group A, D, E or F major occupancy classification that is more than
 - i) 36 m high, measured between grade and the floor level of the top storey, or
 - ii) 18 m high, measured between grade and the floor level of the top storey, and in which the cumulative or total occupant load on or above any storey above grade, other than the first storey, divided by 1.8 times the width in metres of all exit stairs at that storey, exceeds 300,
 - b) containing a Group B major occupancy in which the floor level of the highest storey of that major occupancy is more than 18 m above grade,
 - c) containing a floor area or part of a floor area located above the third storey designed or intended as a Group B, Division 2 or 3 occupancy, or
 - d) containing a Group C major occupancy whose floor level is more than 18 m above grade.

3.2.7.3. Emergency Lighting

- 1 Emergency lighting shall be provided to an average level of illumination not less than 10 lx at floor or tread level in
 - a) exits
 - b) principal routes providing access to exit in open floor areas and in service rooms,
 - c) corridors used by the public,
 - d) corridors serving sleeping rooms in a treatment occupancy,
 - e) corridors serving sleeping rooms in a care occupancy, except corridors serving sleeping rooms within individual suites of care occupancy,
 - f) corridors serving classrooms,
 - g) underground walkways,
 - h) public corridors,
 - i) floor areas or parts thereof where the public may congregate
 - i) in Group A, Division 1 occupancies, or
 - ii) in Group A, Division 2 and 3 occupancies having an occupant load of 60 or more,
 - j) floor areas or parts thereof of daycare centres where persons are cared for, and
 - k) food preparation areas in commercial kitchens.
- 2 Emergency lighting to provide an average level of illumination of not less than 10 lx at floor or catwalk level shall be included in a service space referred to in Sentence 3.2.1.1.(8).
- 3 The minimum value of the illumination required by Sentences (1) and (2) shall be not less than 1 lx.
- 4 In addition to the requirements of Sentences (1) to (3), the installation of battery-operated emergency lighting in buildings or part thereof where treatment is provided shall conform to the appropriate requirements of CSA Z32, "Electrical Safety and Essential Electrical Systems in Health Care Facilities".

3.2.7.4. Emergency Power for Lighting

- 1 An emergency power supply shall be
 - a) provided to maintain the emergency lighting required by this Subsection from a power source such as batteries or generators that will continue to supply power in the event that the regular power supply to the building is interrupted, and
 - b) so designed and installed that upon failure of the regular power it will assume the electrical load automatically for a period of
 - i) 2 h for a building within the scope of Subsection 3.2.6.,
 - ii) 1 h for a building of Group B major occupancy classification that is not within the scope of Subsection 3.2.6., and
 - iii) 30 min for a building of any other occupancy. (See Appendix A.)
- 2 If self-contained emergency lighting units are used, they shall conform to CSA C22.2 No. 141, "Emergency Lighting Equipment."

3.2.7.5. Emergency Power Supply Installation

- 1 Except as required by Articles 3.2.7.6. and 3.2.7.7., an emergency electrical power supply system shall be installed in conformance with CAN/CSA- C282, "Emergency Electrical Power Supply for Buildings." (See Sentence 3.2.7.8.(1) for emergency electrical power supply for voice communication systems).

3.4.5. Exit Signs

3.4.5.1. Exit Signs

- 1 Every exit door shall have an exit sign placed over or adjacent to it if the exit serves
 - a) a building more than 2 storeys in building height,
 - b) a building having an occupant load of more than 150, or
 - c) a room or floor area that has a fire escape as part of a required means of egress
- 2 Every exit sign shall
 - a) be visible on approach to the exit,
 - b) consist of a green pictogram and a white or lightly tinted graphical symbol meeting the colour specifications referred to in ISO 3864-1, "Graphical symbols – Safety colours and safety signs – Part 1: Design principles for safety signs and safety markings," and
 - c) conform to ISO 7010, "Graphical symbols – Safety colours and safety signs – Registered safety signs" for the following symbols (see Note A-3.4.5.1 (2)(c)):
 - i) E001 emergency exit left,
 - ii) E002 emergency exit right,
 - iii) E005 90-degree directional arrow, and
 - iv) E006 45-degree directional arrow
- 3 Internally illuminated exit signs shall be continuously illuminated and
 - a) where illumination of the sign is powered by an electrical circuit, be constructed in conformance with CSA C22.2 No. 141, "Emergency Lighting Equipment," or
 - b) where illumination of the sign is not powered by an electrical circuit, be constructed in conformance with CAN/ULC-S572, "Photoluminescent and Self-Luminous Signs and Path Marking Systems."
- 4 Externally illuminated exit signs shall be continuously illuminated and be constructed in conformance with CAN/ULC-S572, "Photoluminescent and Self-Luminous Signs and Path Marking Systems." (see Note A-3.4.5.1(4).)
- 5 The circuitry serving lighting for externally and internally illuminated exit signs shall
 - a) serve no equipment other than emergency equipment, and
 - b) be connected to an emergency power supply as described in Article 3.2.7.4.

Building Code

Extracts from the National Building Code of Canada 2015

- 6 Where no exit is visible from a public corridor, from a corridor used by the public in a Group A or B major occupancy, or from principal routes serving an open floor area having an occupant load of more than 150, an exit sign conforming to Clauses (2)(b) and (c) with an arrow or pointer indicating the direction of egress shall be provided.
- 7 Except for egress doorways described in Sentence 3.3.2.4.(4), an exit sign conforming to Sentences (2) to (5) shall be placed over or adjacent to every egress doorway from rooms with an occupant load of more than 60 in Group A, Division 1 occupancies, dance halls, licensed beverage establishments, and other similar occupancies that, when occupied, have lighting levels below that which would provide easy identification of the egress doorway.
- 3.4.5.2. Signs for Stairs and Ramps at Exit Level**
- 1 In a building more than 2 storeys in building height, any part of an exit ramp or stairway that continues up or down past the lowest exit level shall have a posted sign clearly indicating that it does not lead to an exit.
- 9.9.11. Signs**
- 9.9.11.1. Application**
- 1 This Subsection applies to all exits except those serving not more than one dwelling unit or a house with a secondary suite.
- 9.9.11.2. Visibility of Exits**
- 1 Exits shall be located so as to be clearly visible or their locations shall be clearly indicated.
- 2 Where an exit door leading directly to the outside is subject to being obstructed by parked vehicles or storage because of its location, a visible sign or a physical barrier prohibiting such obstruction shall be installed on the exterior side of the door.
- 9.9.11.3. Exit Signs**
- 1 Every exit door shall have an exit sign placed over it or adjacent to it if the exit serves
- a building that is 3 storeys in building height,
 - a building having an occupant load of more than 150, or
 - a room or floor area that has a fire escape as part of a required means of egress.
- 2 Every exit sign shall
- be visible on approach to the exit,
 - consist of a green pictogram and a white or lightly tinted graphical symbol meeting the colour specifications referred to in ISO 3864-1, "Graphical symbols – Safety colours and safety signs – Part 1: Design principles for safety signs in workplaces and public areas," and
 - conform to the dimensions indicated in ISO 7010, "Graphical symbols – Safety colours and safety signs – for the following symbols (see A-3.4.5.1.(2)(c))
 - E001 emergency exit left,
 - E002 emergency exit right,
 - E005 90-degree directional arrow, and
 - E006 45-degree directional arrow.
- 3 Internally illuminated exit signs shall be continuously illuminated and
- where illumination of the sign is powered by an electrical circuit, be constructed in conformance with CSA C22.2 No. 141, "Emergency Lighting Equipment," or
 - where illumination of the sign is not powered by an electrical circuit, be constructed in conformance with CAN/ULC-S572, "Photoluminescent and Self-Luminous Signs and Path Marking Systems."
- 4 Externally illuminated exit signs shall be continuously illuminated and be constructed in conformance with CAN/ULC-S572, "Photoluminescent and Self-Luminous Signs and Path Marking Systems." (See A-3.4.5.1.(4))
- 5 The circuitry serving lighting for externally and internally illuminated exit signs shall
- serve no equipment other than emergency equipment, and
 - be connected to an emergency power supply as described in Sentences 9.9.12.3.(2), (3) and (7).
- 6 Where no exit is visible from a public corridor, from a corridor used by the public, or from principal routes serving an open floor area having an occupant load of more than 150, an exit sign conforming to Clauses (2)(b) and (c) with an arrow or pointer indicating the direction of egress shall be provided.
- 9.9.11.4. Signs for Stairs and Ramps at Exit Level**
- 1 In buildings that are 3 storeys in building height, any part of an exit ramp or stairway that continues up or down past the lowest exit level shall be clearly marked to indicate that it does not lead to an exit, if the portion beyond the exit level may be mistaken as the direction of exit travel.
- 9.9.12. Lighting**
- 9.9.12.1. Signs for Stairs and Ramps at Exit Level**
- 1 This Subsection applies to the lighting of all means of egress except those within dwelling units or a house with a secondary suite.
- 9.9.12.2. Required Lighting in Egress Facilities**
- 1 Every exit, public corridor or corridor providing access to exit for the public shall be equipped to provide illumination to an average level of not less than 50 lx at floor or tread level and at all points such as angles and intersections at changes of level where there are stairs or ramps.
- 2 The minimum value of the illumination required by Sentence (1) shall be not less than 10 lx
- 9.9.12.3. Emergency Lighting**
- 1 Emergency lighting shall be provided in
- exits,
 - principal routes providing access to exit in an open floor area,
 - corridors used by the public,
 - underground walkways, and
 - public corridors.
- 2 Emergency lighting required in Sentence (1) shall be provided from a source of energy separate from the electrical supply for the building.
- 3 Lighting required in Sentence (1) shall be designed to be automatically actuated for a period of at least 30 min when the electric lighting in the affected area is interrupted.
- 4 Illumination from lighting required in Sentence (1) shall be provided to average levels of not less than 10 lx at floor or tread level.
- 5 The minimum value of the illumination required by Sentence (4) shall be not less than 1 lx.
- 6 Where incandescent lighting is provided, lighting equal to 1 W/m² of floor area shall be considered to meet the requirement in Sentence (4).
- 7 Where self-contained emergency lighting units are used, they shall conform to CSA C22.2 No. 141, "Emergency Lighting Equipment."

Building Code

Extracts from the National Building Code of Canada 2015

Appendix A

Explanatory material

A-3.1.2. Use Classification

The purpose of classification is to determine which requirements apply.

This Code requires classification in accordance with every major occupancy for which the building is used or intended to be used. Where necessary, an application clause has been inserted in this Part to explain how to choose between the alternative requirements which multiple occupancy classification may present.

A-3.1.2.1.(1) Major Occupancy Classification

The following are examples of the major occupancy classifications described in Table 3.1.2.1.:

Examples		Group	Division
Motion picture theatres Opera houses Television studios admitting a viewing audience Theatres, including experimental theatres		A	1
Art galleries Auditoria Bowling alleys Churches and similar places of worship Clubs, nonresidential Community halls Courtrooms Dance halls Exhibition halls (other than classified in Group E) Gymnasia	Lecture halls Libraries Licensed beverage establishments Museums Passenger stations and depots Recreational piers Restaurants Schools and colleges, nonresidential Undertaking premises	A	2
Arenas Indoor swimming pools, with or without spectator seating Rinks		A	3
Amusement park structures (not elsewhere classified) Bleachers Grandstands	Reviewing stands Stadiums	A	4
Jails Penitentiaries Police stations with detention quarters	Prisons Psychiatric hospitals with detention quarters Reformatories with detention quarters	B	1
Care facilities with treatment Convalescent /recovery/rehabilitation centres with treatment Hospices with treatment Hospitals	Infirmaries Nursing homes with treatment Psychiatric hospitals without detention quarters Respite centres with treatment	B	2
Assisted/supportive living facilities Care facilities without treatment Children's custodial homes Convalescent/recovery/rehabilitation centres without treatment	Group homes Hospices without treatment Nursing homes without treatment Reformatories without detention quarters Respite centres without treatment	B	3
Apartments Boarding houses Clubs, residential Colleges, residential Convents Dormitories	Hotels Houses Lodging houses Monasteries Motels Schools, residential	C	
Banks Barber and hairdressing shops Beauty parlours Dental offices Dry cleaning establishments, self-service, not using flammable or explosive solvents or cleaners Laundries, self-service	Medical offices Offices Police stations without detention quarters Radio stations Small tool and appliance rental and service establishments	D	

Building Code

Extracts from the National Building Code of Canada 2015

Examples		Group	Division
Department stores Exhibition halls Markets	Shops Stores Supermarkets	E	
Bulk plants for flammable liquids Bulk storage warehouses for hazardous substances Cereal mills Chemical manufacturing or processing plants Distilleries Dry cleaning plants Feed mills	Flour mills Grain elevators Lacquer factories Mattress factories Paint, varnish and pyroxylin product factories Rubber processing plants Spray painting operations Waste paper processing plants	F	1
Aircraft hangars Box factories Candy plants Cold storage plants Dry cleaning establishments not using flammable or explosive solvents or cleaners Electrical substations Factories Freight depots Helicopter landing areas on roofs Laboratories Laundries, except self-service Mattress factories Planing mills	Printing plants Repair garages Salesrooms Service stations Storage rooms Television studios not admitting a viewing audience Warehouses Wholesale rooms Woodworking factories Workshops	F	2
Creameries Factories Laboratories Light-aircraft hangars (storage only) Power plants Salesrooms	Sample display rooms Storage garages, including open air parking garages Storage rooms Warehouses Workshops	F	3

A-3.4.5.1.(2)(C) Graphical Symbols for Exit Signs



ISO 7010, “Graphical” symbols – Safety colours and safety signs – Registered safety signs” identifies the following internationally recognized symbols for use at required exits

“Emergency exit RIGHT” (E001) symbol from ISO 7010



Figure A-3.4.5.1.(2)(C)-B
90-degree directional arrow (E005) from ISO 7010
A-3.4.5.1.(4) Externally Illuminated Signs

An external lighting source is required to properly charge photoluminescent signs. These types of signs must be lit in conformance with the charging requirements stated in CAN/ULC-S572.

A-3.4.6. Application to Means of Egress

The requirements in Subsection 3.4.6. apply to interior and exterior exits, as well as to ramps, stairways and passageways used by the public as access to exit. The treads, risers, landings, handrails and guards for the latter access to exit facilities must thus be provided in conformance with the appropriate requirements for exit facilities.

Fire Code

Extracts from the National Fire Code of Canada 2015

2.7. Safety to Life

2.7.3. Exit Lighting, Exit Signs and Emergency Lighting

2.7.3.1. Installation and Maintenance

- 1) Exit lighting, exit signs and emergency lighting shall be provided in buildings in conformance with the NBC. (See Note A-2.37.3.1.(1).)
- 2) Exit lighting and exit signs shall be illuminated during times when the building is occupied.
- 3) Emergency lighting shall be maintained in operating condition, in conformance with Section 6.5.

6.5. Emergency Power Systems and Unit Equipment for Emergency Lighting

6.5.1 General

6.5.1.1. Inspection, Testing and Maintenance

- 1) Except as provided in Articles 6.5.1.2. to 6.5.1.5., emergency power systems shall be inspected, tested and maintained in conformance with CSA-C282, "Emergency Electrical Power Supply for Buildings."
- 2) An emergency electrical power supply system for emergency equipment for health care facilities shall be inspected, tested and maintained in conformance with CSA Z32, "Electrical Safety and Essential Electrical Systems in Health Care Facilities." (See Appendix A.)

6.5.1.2. Notification

- 1) When an emergency power system or any part thereof is shut down, the supervisory staff shall be notified in conformance with Section 2.8.

6.5.1.3. Instructions

- 1) Where an emergency power system is installed, instructions shall be provided for switching on essential loads and for starting the generator when this is not done automatically.

6.5.1.4. Records

- 1) Written records shall be maintained as required in CAN/CSA-C282, "Emergency Electrical Power Supply for Buildings".

6.5.1.6. Inspection of Unit Equipment

- 1) Self-contained emergency lighting unit equipment shall be inspected at intervals not greater than one month to ensure that
 - a) pilot lights are functioning and not obviously damaged or obstructed,
 - b) the terminal connections are clean, free of corrosion and lubricated when necessary,
 - c) the terminal clamps are clean and tight as per manufacturer's specifications, and
 - d) the battery surface is kept clean and dry.
- 2) Self-contained emergency lighting unit equipment shall be tested
 - a) at intervals not greater than one month to ensure that the emergency lights will function upon failure of the primary power supply, and
 - b) at intervals not greater than 12 months to ensure that the unit will provide emergency lighting for a duration equal to the design criterion under simulated power failure conditions.
- 3) After completion of the test required in Clause (2)(b), the charging conditions for voltage and current and the recovery period shall be tested to ensure that the charging system is functioning in accordance with the manufacturer's specifications.

6.5.1.7. Inspection of Emergency Lights

- 1) Except as provided in Article 6.5.1.6., emergency lights shall be inspected at intervals not greater than 12 months to ensure that they are functional.

Generator Room

Extracts from the Canadian Standards Association 2015

Section 6.11

Emergency Lighting

6.11.1

The emergency electrical power supply room and the automatic transfer switch room, where separate, shall be equipped with unit equipment for emergency lighting that complies with CSA C22.2 No. 141. Sufficient lamps shall be provided to ensure that a minimum lighting level of 50 lx for 2h is available at all equipment locations requiring adjustment or service.

Note: This illumination level is significantly greater than that specified in the NBCC, which requires 10 lx for egress route emergency lighting

6.11.2

Emergency lighting units shall be tested in accordance with Table 2 and CSA C22.2 No. 141.

6.11.3

The emergency lighting unit shall include

- (a) automatic self-diagnostic circuitry; and
- (b) a transient voltage surge suppressor on the supply side of power to the unit.



Emergi-Lite

Please consult our website for more information:

emergi-lite.ca

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Printed in Canada. 00/00/0000
Order no.: EL/Catalogue-EN