

*Lightalarms*

**California Offering**  
Lights the way to safety



**by ABB**

# California Energy Commission (CEC) Title 20 Certified Emergency Lighting

The lighting products included in this brochure are certified and comply with the California Energy Commission (CEC) Title 20 Appliance Energy Efficiency Standards.

The CEC Title 20 Compliant products in this brochure have been:

- Proven to meet the applicable efficiency standards
- Tested in a CEC-approved lab
- Marked in accordance with the Title 20 certification requirements

Our CEC Title 20 certified emergency lighting products are ideal for use in architectural, commercial, and institutional environments. The complete range of solutions we offer meets specifications for both new construction and retrofit projects.

## **Meeting and Exceeding Quality and Performance Standards**

All our emergency lighting equipment is designed and manufactured to meet and exceed the highest standards in the industry, with quality built in and tested at our North American manufacturing center of excellence. We ensure that our products are compliant with the latest applicable codes and regulations.

## **LED Efficiency and Durability**

Our product offering is streamlined to use energy-efficient LEDs. LEDs provide exceptional illumination with low energy consumption and lower lamp temperatures. As well, the long operational life of these lamps means they practically last the lifetime of a building.

## **Outstanding Service and Reliability**

Our experienced service team stands behind our products. You can count on our proven, trusted, reliable products and industry expertise.

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# Nexus<sup>®</sup>

## Emergency lighting management system

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

Nexus<sup>®</sup> 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 a safety inspection?

In the interest of public safety, building owners/ managers must meet the outlined requirements for exit signs and emergency lighting equipment, including the following:

- Conduct a discharge test every month.
- Conduct functional tests annually.
- Keep a log book of maintenance information.

Complying with these requirements can be labor intensive and costly, especially in large buildings where testing every emergency light requires many man-hours. Disrupting the power supply during lengthy inspections can also put public safety at risk.

### Manage testing with Nexus<sup>®</sup> to save time and costs

Nexus<sup>®</sup> is a real-time monitoring system that manages the status of your entire emergency lighting and Exit Sign system from a central control unit. Nexus<sup>®</sup> runs diagnostics, performs required monthly and annual functional tests, generates maintenance logs and runs compliance reports. Available in wired or wireless (RF) versions, Nexus<sup>®</sup> installations often pay for themselves in less than two (2) years. In addition to operational savings, Nexus<sup>®</sup> helps increase system reliability and performance and reduces the risk of failed inspections. One building or a group of properties under the same management can be monitored with Nexus<sup>®</sup>.

### Maximize system availability

By allowing maintenance personnel to easily maintain and monitor the emergency lighting system without having to manually check each unit, Nexus<sup>®</sup> reduces the hours required to disrupt the power supply for inspections. With Nexus<sup>®</sup>, monthly tests and reports on the status of all emergency lights and exit signs can be done individually, in groups, or together.

Advantages of the Nexus<sup>®</sup> system include saving labor; maximizing system availability by testing units in groups and stages rather than setting all units in recovery mode; and the convenience of self-monitoring. Nexus<sup>®</sup> indicates the location of a faulty unit and reports it instantly without requiring a manual search.



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

**Update status instantly**

Nexus® passes messages both to and from the emergency units to instruct the units to perform all mandatory testing by communicating between the emergency units and a centrally located controller. Nexus® is a proven system supported by a 5-year warranty, and can contribute to LEED certification and support green building initiatives.

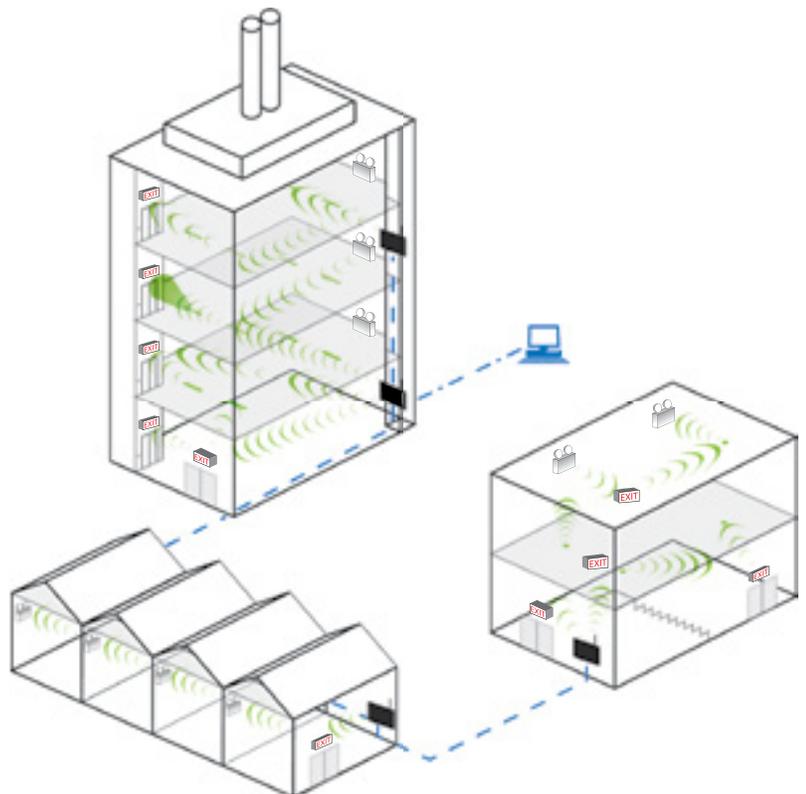
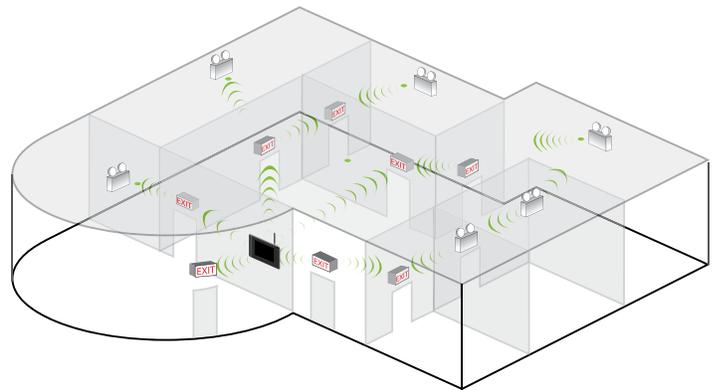
**Small system example**

In a system of less than 100 units it is most likely that the only hardware required, other than the emergency units themselves, is a controller. All communication would occur wirelessly and installation would not vary greatly from a nonmonitored system. Once the units are in place, the system will establish the mesh network. The building itself could be quite large as each unit only needs to be able to communicate with its close neighbors 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 Lightalarms technical staff. The basic Nexus® RF system is designed to run on an Ethernet network which is present in most modern buildings however through a range of interface cards the backbone of the network could be WLAN.

As with the small system example, site performance will be optimized through the careful selection and placement of Area Controller Routers 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.



For Nexus® compatibility please refer to individual product pages for complete details.

# High output MR16 LED

## Emergency lighting

### MR16 LED illumination

With the remarkable technology development in the last decade, the 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 market includes “white light” light LEDs for emergency illumination. Extremely efficient and long-lasting, LED lamps become the natural alternative to incandescent lamps due to three main advantages:

- Lamp efficacy: 50 - 100 lumen per watt compared to 15 - 30 lumen per watt for 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) is a huge benefit for lighting in hazardous locations.

### MR16 LED lamp benefits

- Reduces total cost of ownership, uses few fixture due to superior illumination, thus reducing installations cost 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.
- Typical 30,000 hours of operational life.
- Vibration-resistant LED stands up to industrial environments.
- Ideal for indoor and outdoor use.



#### 200-220 Lumen 4W MR16 LED

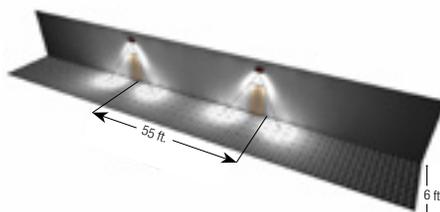
Leading the technology trend, **Lightalarms®** offers a complete series of 4W MR16 LED lamps available for all the standard battery voltages: 6V, 12V, 24V and 120V. With up to 30,000 hours of operational life and a luminous flux of typically 200 to 220 lumens, they are available with most emergency heads designed to hold an MR16 lamp and meet the majority of illumination specifications. For example: one pair of LED emergency heads installed at a height of 7.5ft illuminates a 6ft by 55ft path of egress.

#### 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, this lamp has the same lighting performance as a 20W high-output halogen MR16. A twin emergency head installed at a height of 7.5ft illuminates 70ft path of egress.

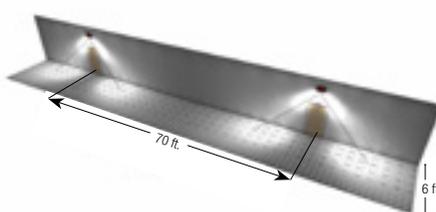
#### 540-590 Lumen 6W MR16 LED

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 a MR16 35W halogen with similar light output. This lamp can deliver the highest linear foot of illumination per watt on a path of egress! (spacing in feet / watt) 8.83ft compare to 1.37ft for a MR16 35W.



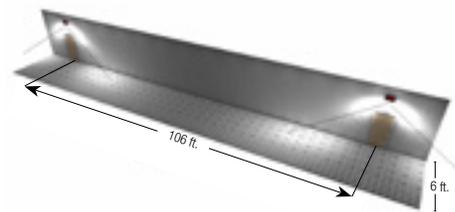
#### 55-ft. Path of egress 2 X 4W MR16 LED

Based on an average of 1 foot candle



#### 70-ft. Path of egress 2 X 5W MR16 LED

Based on an average of 1 foot candle



#### 106-ft. Path of egress 2 X 6W MR16 LED

Based on an average of 1 foot candle

## High output MR16 LED

### Emergency lighting

#### Case Study: Fewer MR16 LED units required

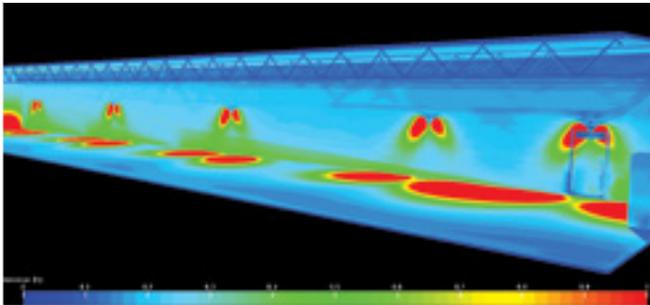
Emergency lighting units with MR16 LED lamps provide the same illumination at floor level using significantly less units.

- Reduced installation costs, less product needed and labor.
- Reduced energy costs, keeping batteries charged at full capacity to be ready to respond to an emergency situation at any time.

- Reduced maintenance and testing cost, less units to maintain and test in the emergency lighting system.
- Reduced lamp replacement cost, LED lamps have a 30,000+ hour lamp life compare to only a few hundred hour typical with incandescent lamps.
- Reduced environmental impact, less product materials, less batteries, less transportation, less packaging, less labor, less waste.

#### Compare

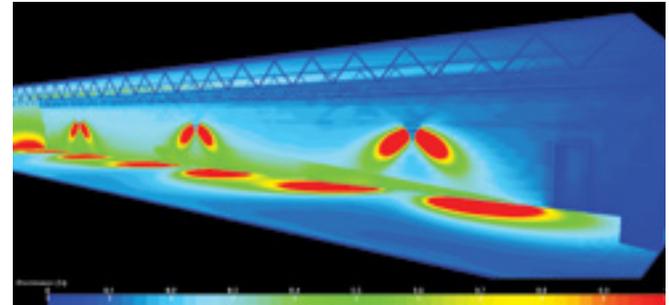
Where the building code requires an average of 1 foot-candle and a minimum of 0.1 foot-candle at floor level along the path of egress on a 150' x 9' x 9' corridor with an egress door at one end, a 150' x 6' path of egress, and a 7.5' unit mounting height.



#### 4W MR16 LED lamps

Same Standard Emergency Lighting Units with 4W MR16 LED lamps requires a total of 5 double-head units or remotes.

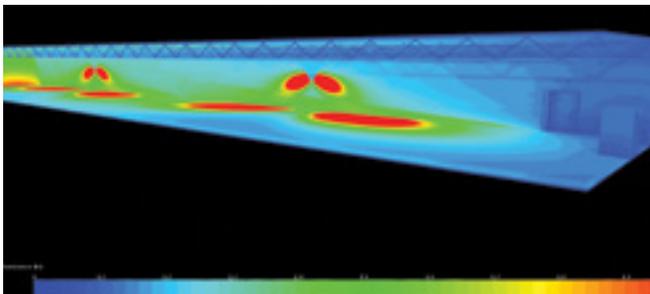
MR 16 LED LAMPS				
Lamp suffix	Voltage	Wattage	Lumens	Replacement number
LD1	6	4	199	580.0097-L
LD7	12	4	220	580.0093-L
LD13	24	4	220	580.0098-L
LD14	24	6	590	580.0100-L



#### 5W MR16 LED lamps

Same Standard Emergency Lighting Units with 5W MR16 LED lamps requires a total of 3 double-head units or remotes

MR 16 LED LAMPS				
Lamp suffix	Voltage	Wattage	Lumens	Replacement number
LD9	12	5	340	580.0104-L



#### 6W MR16 LED lamps

Same Standard Emergency Lighting Units with 6W MR16 LED lamps requires a total of 2 double-head units or remotes

MR 16 LED LAMPS				
Lamp suffix	Voltage	Wattage	Lumens	Replacement number
LD10	12	6	540	580.0106-L
LD14	24	6	590	580.0100-L

## Simplicity™ Premium SLED & SPLED Series

Premium die-cast aluminum and laser-etched acrylic edge-lit exit sign



### Construction

- Universal mount housing models use (D) dome and (P) pyramid, trim plate, trim ring and canopy made of die-cast aluminum
- Fully recessed only mount housing with (Z) flat trim plate includes steel back-box and hanger bars
- U-shaped clear acrylic legend panel features laser-etched letters and chevrons
- 6 inch EXIT lettering legend, available in red or green
- Choice of finishes: white, black or brushed aluminum, dark bronze, polished brass and polished chrome

### Mounting

- (D) Dome and (P) pyramid trim models modular design allows for surface, wall, end or ceiling mount, as well as, recessed wall or ceiling applications
- (D) Dome and (P) pyramid trim models include a canopy for surface wall, end or ceiling mount and for recessed wall or ceiling applications a trim ring and hanger bars for installation into t-bar grid

### Chevrons



Chevron right (R) single face



Chevron left (L) single face



Single face, double chevron (1D) double face, double chevron (2D)



Double face, single chevron (RL) represents each side of a double face panel.

### Housing color



Brushed aluminum



White



Black



Dark bronze (painted)



Polished brass



Polished chrome

- (D) Dome and (P) pyramid trim models housing is brushed aluminum with conduit knock-out 1/2", top back and end
- (Z) Flat trim models are for RECESS MOUNTING ONLY and can not be used for surface mount applications
- (Z) Flat trim models include a unfinished steel back-box and hanger bars for installation into ceiling and t-bar grid

### Special wording panels

Available. Contact your sales representative with your design requirements

### Electronics

- Optional Improved Diagnostics
- Optional Nexus® monitoring system
- 120-277 60Hz

### Approvals

- UL 924 listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards
- ROHS compliant
- E-California Energy Commission Title 20

### Warranty (subject to proper installation and maintenance)

Unit has a Five-year limited warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**



nexus



### Trim plates



(D) Dome Trim Plate



(P) Pyramid Trim Plate



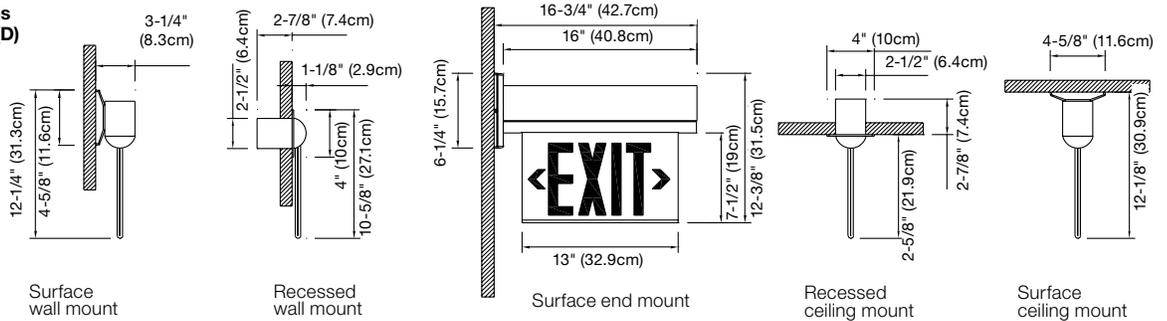
(Z) Flat Trim

(D) Dome Trim Plate and (P) Pyramid Trim Plate photo/text (D) & (P) trims used with universal surface and recess mount housing models

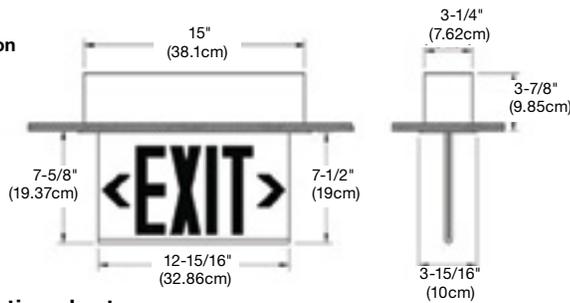
For recess mount applications ONLY (housing is not universal)

**Dimensions** (Dimensions are approximate and subject to change):

**Mounting applications available with dome (D) and pyramid (P) trim plates**



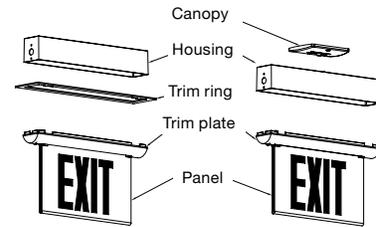
**Mounting application available with flat (Z) trim plate - recessed ceiling mount only**



**When using (D) Dome Trim or (P) pyramid models:**

For Recessed mount, use these components

For Surface mount, use these components



**Power consumption chart**

Model	AC Specs	DC Specs
AC-Only	120-277VAC, 60Hz (Less than 1.4W)	-
AC/DC	120-277VAC, 60Hz (Less than 1.4W)	6 to 24VDC (Less than 1.4W)
Self-powered	120-277VAC, 60Hz (Less than 2.3W)	Nickel-Cadmium battery (Min. 90 minutes)
Self-powered diagnostic	120-277VAC, 60Hz (Less than 2.3W)	Nickel-Cadmium battery (Min. 90 minutes)

**Accessories** (Order as a separate item)

Product code	Description
PW-*	Pendant, white
PB-*	Pendant, black
PA-*	Pendant, gray

\* Specify pendant length (12", 24", 36", etc).

**Ordering format**

Legend	Series	Housing color	Legend color	Panel background color	Trim plate	Chevron	Charger type	Options
<b>Blank</b> = 6" EXIT legend	<b>SLEDN</b> = AC-only (less than 1.4W) <b>SPLEDN</b> = Self-powered	<b>A</b> = Brushed aluminum <b>W</b> = White <b>B</b> = Black <b>DB</b> = Dark bronze (painted) <b>PB</b> = Polished brass <b>CH</b> = Polished chrome	<b>R</b> = Red <b>G</b> = Green	<b>C</b> = Clear (single face only) <b>W</b> = White (single or double face) <b>M</b> = Mirror (single or double face)	<b>D</b> = Dome <sup>2</sup> <b>P</b> = Pyramid <sup>2</sup> <b>Z</b> = Flat trim <sup>3</sup>	<b>Blank</b> = No chevron (single face sign) <b>2</b> = No chevron (double face sign) <b>L</b> = Left chevron (on a single face sign) <b>R</b> = Right chevron (on a single face sign) <b>RL</b> = Left & right chevron (double face sign, one chevron on each side) <b>1D</b> = Double chevron (on single face) <b>2D</b> = Double chevron (double face sign, two chevrons on each side) <b>UA</b> = (2 Qty) for single & (4 Qty) for doubles universal field stick on chevrons per face <b>2UA</b> = Double face with universal stick on chevrons	<b>Blank</b> = AC only <b>-DC</b> = AC/DC model 6 to 24VDC <b>-ID</b> = Self-test and diagnostic (SP only) <b>-NEX</b> = Nexus <sup>®</sup> Wired <sup>1</sup> <b>-NEXRF</b> = Nexus <sup>®</sup> Wireless <sup>1</sup> <b>-Y</b> = Two circuits (AC only)	<b>Blank</b> = No option <b>-FAF</b> = Fire alarm flasher (SP only) <b>-FB</b> = Flasher & buzzer (SP only) <b>-LP</b> = Panel shipped separately <b>-X</b> = Back box shipped separate

**Example: SLEDNARWDLY**

<sup>1</sup> Consult your sales representative. For Special Wording, please contact your sales representative.

<sup>2</sup> Universal housing for Surface or Recessed mount applications

<sup>3</sup> Fully Recessed ONLY applications (not to be used for surface mount)

## Simplicity™ Economizer SE, SES & SEN Series

Surface or recessed mount edge-lit exit sign



### Construction

- Recessed model steel housing with extruded aluminum trim plate
- Surface mount model extruded aluminum housing
- Panel features a curved contour for maximum illumination and clarity
- 6 inch EXIT lettering legend available in red or green
- Choice of housing and trim plate finishes, off white or textured aluminum
- Universal field selectable chevrons

### Mounting

- Recessed model: Fully recessed ceiling mount
- Recessed model includes hanger bars for lay-in installation in T-bar grid
- Surface mount model includes canopy for ceiling, wall or end mount

### Special Wording Panels

Available. Contact your sales representative with your design requirement

### Electronics

120/277 60Hz

### Approvals

- UL 924 Listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards
- E-California Energy Commission Title 20

**Warranty** (subject to proper installation and maintenance)

Five-year limited warranty

Detailed warranty terms located **online at:** [www.lightalarms.com](http://www.lightalarms.com)



### Housing color



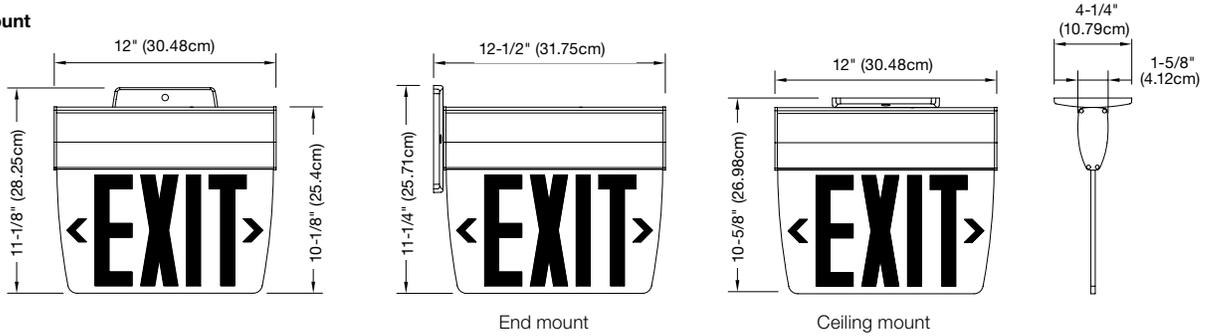
Textured aluminum



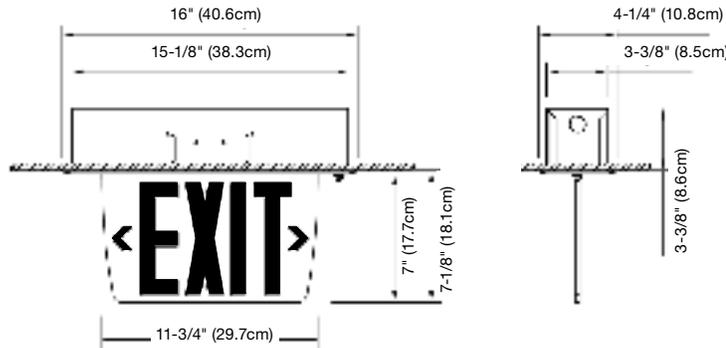
Off white

**Dimensions** (Dimensions are approximate and subject to change):

**Surface mount**



**Recessed ceiling mount only (F) flat trim plate**



**Power consumption chart**

Model	AC Specs	DC Specs
AC-Only	120-277VAC, 50/60Hz (Less than 2W)	-
AC/DC	120-277VAC, 50/60Hz (Less than 2W)	6 to 24VDC (Less than 1.5W)
Self-powered	120-277VAC, 50/60Hz (Less than 3W)	Ni-Cd (Min. 90 mins)

**Ordering format**

6 inch Series	Trim	Housing color	Legend color	Face
SE = AC-only SES = AC/DC SEN = Self-powered	Blank = Surface mount only F = Recessed mount only (flat trim)	TA = Textured aluminum OW = Off white	RC = Red on clear <sup>1</sup> RW = Red on white RM = Red on mirror GC = Green on clear <sup>2</sup> GM = Green on mirror	1 = Single face 2 = Double face
<b>Example: SEFOWRC1</b>				

<sup>1</sup>Green on white not available.  
<sup>2</sup>Single face only.

8 inch Series	Trim	Housing color	Legend color	Face
8SE = AC-only 8SES = AC/DC 8SEN = Self-powered	Blank = Surface mount	TA = Textured aluminum OW = Off white	RC = Red on clear <sup>3</sup> RW = Red on white RM = Red on mirror	1 = Single face 2 = Double face

**Example: 8SEFOWRC1**

<sup>3</sup>Single face only.

## Genesis™ GX & GXE Series

Die-cast aluminum LED exit sign



### Construction

- Faceplate, backplate and canopy are made of die-cast aluminum
- 6 inch EXIT lettering legend, available in red or green
- Choice of finishes: white, black, brushed aluminum or dark bronze

### Mounting

- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-Box mounting

### Special Wording Panel

Available. Contact your sales representative with your design requirements

### Electronics

- Standard Improved Diagnostics on GXE
- Optional Nexus® monitoring system
- 120-277 60Hz

### Approvals

- CSA-US (To UL 924 standards)
- Damp location optional 50°F to 104°F (10°C to 40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards
- E-California Energy Commission Title 20

### Warranty (subject to proper installation and maintenance)

Five-year limited warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**



### Power consumption chart

Model (6 inch Exit legend)	AC Specs	DC Specs
AC-only	120 to 347VAC, 50/60Hz (1.25W)	-
AC/DC	120 to 347VAC, 50/60Hz (1.25W)	6 to 48VDC (Less than 1.5W)
Self-powered	120 to 347VAC, 50/60Hz (1.6W)	Ni-Cd battery (Minimum of 90 minutes)
Model (8 inch Exit legend)	AC Specs	DC Specs
AC-only	120 to 347VAC, 50/60Hz (2.5W)	-
AC/DC	120 to 347VAC, 50/60Hz (2.5W)	6 to 48VDC (Less than 1.6W)
Self-powered	120 to 347VAC, 50/60Hz (2.9W)	Ni-Cd battery (Minimum of 90 minutes)

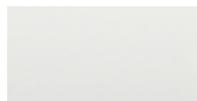
### Frame/Face plate color



Brushed aluminum



Black

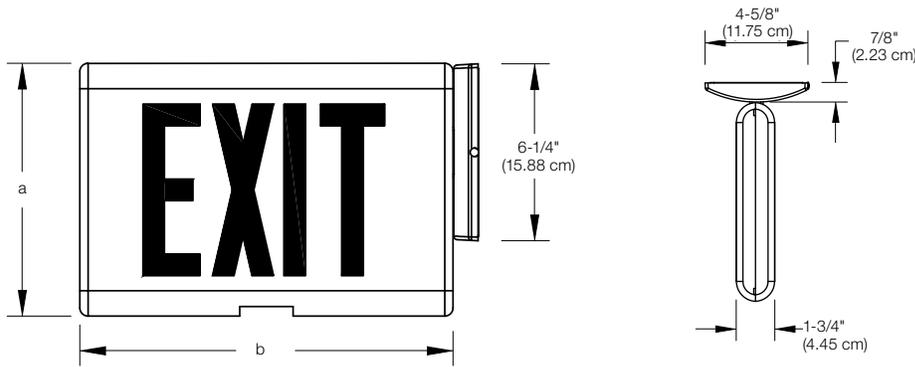


White



Dark bronze  
(painted)

**Dimensions** (Dimensions are approximate and subject to change):



**Accessories** (Order as a separate item)

Description	Product code
Pendant mount white	GPW-*
Pendant mount black	GPB-*
Pendant mount gray	GPA-*
Wire guard (wall mount) (6 in.)	WG13-L
Wire guard (ceiling mount) (6 in.)	WG14-L
Wire guard (end mount) (6 in.)	WG15-L
Vandal shield (wall mount)	VRC
Vandal shield, NEMA-4X (wall mount)	VRC-4X

\* Specify pendant length (12", 24", 36", etc).

**Housing cabinet**

Letters	Dimension A	Dimension B
6" (15.24 cm)	8-7/8" (22.54 cm)	13-1/16" (33.18 cm)
8" (20.32 cm)	10-1/2" (26.67 cm)	15-1/4" (38.74 cm)

**Ordering format**

No. of faces	Series	Back plate/ Frame color	Legend color	Face plate color	Diagnostic option <sup>1</sup>	Options	Version
<b>Blank</b> = 6" single face	<b>GX</b> = AC/DC Only	<b>A</b> = Brushed aluminum	<b>R</b> = Red	<b>A</b> = Brushed aluminum	<b>Blank</b> = Standard	<b>Blank</b> = No option	<b>-N<sup>3</sup></b>
<b>2</b> = 6" double face	<b>GXE</b> = Self-powered	<b>B</b> = Black	<b>G</b> = Green	<b>B</b> = Black	Improved Diagnostics (non-audible)	<b>-DL</b> = Damp location screws	
		<b>W</b> = White		<b>W</b> = White	<b>NEX</b> = Nexus <sup>®</sup> Wired <sup>2</sup> (consult your sales representative)	<b>-VR</b> = Vandal resistant screws	
		<b>Optional</b>		<b>Optional</b>		<b>-LVR</b> = Vandal resistant polycarbonate lens and screws	
		<b>DB</b> = Dark bronze (painted)		<b>DB</b> = Dark bronze (painted)		<b>-Y</b> = Open faceplate and Special wording faceplate	
						<b>-2</b> = 2 Circuit (120/120 or 277/277, AC-Only)	

**Example: GXEARA-N**

<sup>1</sup> Available with Self-Powered GXE exit only

<sup>2</sup> NEX is CSA-US approved only

<sup>3</sup> Include on 6" models

## Galaxy™ XD & XDN Series

Die-cast aluminum LED exit sign



### Construction

- Die-cast aluminum housing
- 6 inch EXIT lettering legend available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or brushed aluminum

### Mounting

- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-Box mounting

### Electronics

- Optional Improved Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

### Special Wording Panels

Available. Contact your sales representative with your design requirements

### Approvals

- UL 924 Listed
- Damp location optional 50°F to 104°F (10°C to 40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards
- E-California Energy Commission Title 20

**Warranty** (subject to proper installation and maintenance)

Five-year limited warranty

Detailed warranty terms located **online at:** [www.lightalarms.com](http://www.lightalarms.com)



### Frame/Face plate color



Black

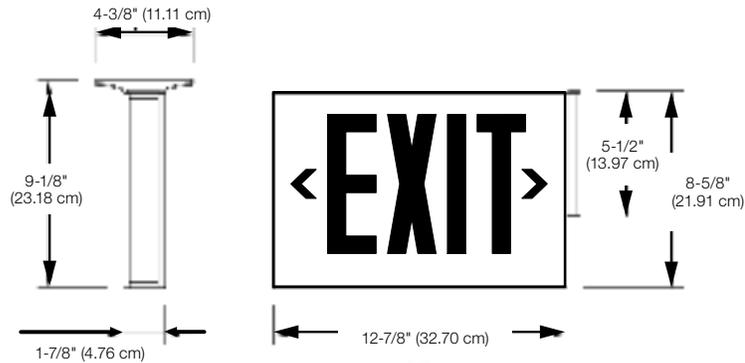


White



Brushed aluminum

**Dimensions** (Dimensions are approximate and subject to change):



**Power consumption chart**

Model	AC Specs	DC Specs
AC-Only	120/277VAC, 60Hz (Less than 2.5W)	-
AC / DC-remote	120/277VAC, 60Hz (Less than 2W)	6 to 48VDC (Less than 1.5W)
Self-powered	120/277VAC, 60Hz (Less than 3.3W)	Nickel-Cadmium battery (Minimum. of 90 minutes)
Self-powered with diagnostic	120/277VAC, 60Hz (Less than 2.8W)	Nickel-Cadmium battery (Minimum of 90 minutes)

**Accessories** (Order as a separate item)

Product code	Description
Pendant mount white	XD-D*WH
Pendant mount black	XD-D*BK
Pendant mount gray	XD-D*TA
Wire guard (wall mount 6 inch)	WG13-L
Wire guard (ceiling mount 6 inch)	WG14-L
Wire guard (end mount 6 inch)	WH15-L
Vandal shield (wall mount)	VRC
Vandal shield, NEMA-4X (wall mount)	VRC-4X

**Ordering format**

No. of faces	Series	Backplate/ Frame color	Legend/ Face plate color	Option
1= Single face	<b>XDA</b> = AC-Only	<b>B</b> = Black	<b>RB</b> = Red/Black	<b>Blank</b> = No option
2= Double face	<b>XDC</b> = AC/DC	<b>W</b> = White	<b>GB</b> = Green/Black	<b>-DL</b> = Damp location (50°F minimum, 104°F maximum ambient, 10°C minimum, 40°C maximum)
	<b>XD21</b> = Dual AC circuit (2 x 120V)	<b>A</b> = Brushed aluminum	<b>RW</b> = Red/White	<b>-FAF</b> = Fire alarm flasher (not available with XDN model)
	<b>XD22</b> = Dual AC circuit (2 x 277V)		<b>GW</b> = Green/White	<b>-FB</b> = Flasher buzzer <sup>1</sup>
	<b>XDN</b> = Self-powered without Improved Diagnostics		<b>RA</b> = Red/Brushed aluminum	<b>-FBF</b> = Fire alarm activated flasher and Flasher buzzer <sup>1</sup>
	<b>XDND</b> = Self-powered with Improved Diagnostics		<b>GA</b> = Green/Brushed aluminum	<b>-FL</b> = Flasher <sup>1</sup>
	<b>XDNEX</b> = Nexus® Wired (consult your sales representative)			<b>-LVR</b> = Vandal resistant Polycarbonate lens and screws
	<b>XDNERF</b> = Nexus® Wireless (consult your sales representative)			<b>-VR</b> = Vandal resistant screws
				<b>-Y</b> = Open faceplate and special wording faceplate

**Example: 2XDABRB**

<sup>1</sup> Available with XDN, XDND, XDNEX and XDNERF models only.

## Galaxy™ XLD & XLED Series

LED die-cast aluminum exit fully recessed mount AC, AC/DC or self-powered exit signs



### Construction

- Die-cast aluminum faceplate
- 6 inch EXIT lettering legend available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or brushed aluminum

### Mounting

Fully recessed mount

### Electronics

- Standard Improved Diagnostics (self -powered models)
- 120/277 60Hz

### Special Wording Panels

Available. Contact your sales representative with your design requirements

### Approvals

- UL 924 Listed
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards
- E-California Energy Commission Title 20

### Warranty

Five-year limited warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**



### Face plate color



Brushed aluminum

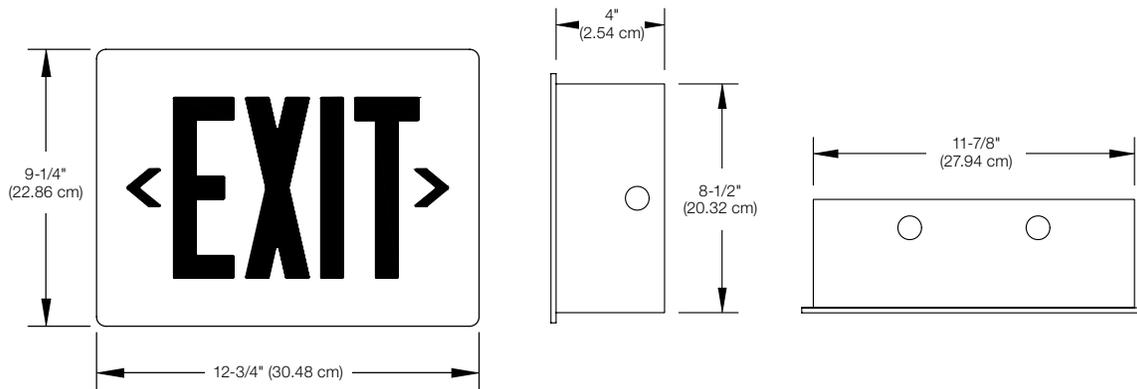


Black



White

**Dimensions** (Dimensions are approximate and subject to change):



**Power consumption chart**

Model	AC Specs	DC Specs
AC	120VAC, 60Hz (Less than 1.4W)	—
AC/DC	277VAC, 60Hz (Less than 2W)	6VDC-48VDC (Less than 1.5W)
Self-Powered	120VAC, 60Hz (Less than 1.7W)	Ni-Cd battery (Min. 90 Minutes)

**Ordering format**

Model	Series	Legend/stencil color	Housing color	Options
<b>R</b> = Fully recessed mounting (single face only)	<b>-XLD</b> = AC, AC/DC <b>-XLED</b> = Self-Powered standard with self-diagnostic Ni-Cd battery	<b>R</b> = Red <b>G</b> = Green	<b>A</b> = Aluminum face <b>W</b> = White face <b>B</b> = Black face	<b>-DL</b> = Damp location <b>-FB</b> = Flasher buzzer (Self-Powered) <b>-FAF</b> = Fire alarm activated flasher (AC) <b>-FAF</b> = Fire alarm activated flasher (Self-Powered) <b>-VR</b> = Vandal resist screws <b>-LVR</b> = Vandal resist shield and screws <b>-2</b> = Dual circuit operation (AC only) <b>-Y</b> = Open face
<b>Example: R-XLEDRW-N</b>				<b>-N</b> = New design

## UX4 LED Steel Exit and Combination Series

### Steel LED exit signs



#### Construction

- Steel housing
- Standard mist-white finish, optional black finish
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

#### Mounting

- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-Box mounting

#### Exit sign

- UX4 Model, Exit Sign, AC-Only, 120/277VAC, 50/60Hz
- UX4N Model, Nickel-Cadmium battery

#### Lamp Head Source

- MR16 LED 6V 4W

#### Electronics

- Improved Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

#### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	43'	36'

#### Unit Rating Chart (Combination unit)

Battery type	DC Voltage (Volts)	Model	Battery capacity in watts			
			1-1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead-calcium	6	UX4E	30	20	14	10
Nickel-Cadmium	6	UX4EN	24	18	12	9

#### Special Wording Panels

Available. Contact your sales representative with your design requirements

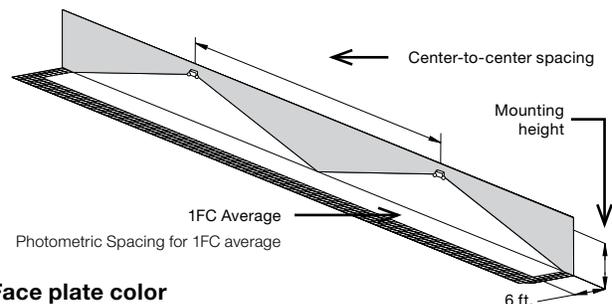
#### Approvals

- UL 924 listed
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards
- E-California Energy Commission Title 20 (Exit Sign Models only)

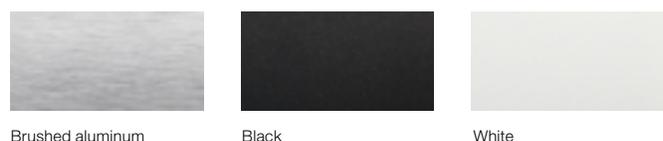
#### Warranty (subject to proper installation and maintenance)

Three-year limited warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**



#### Face plate color

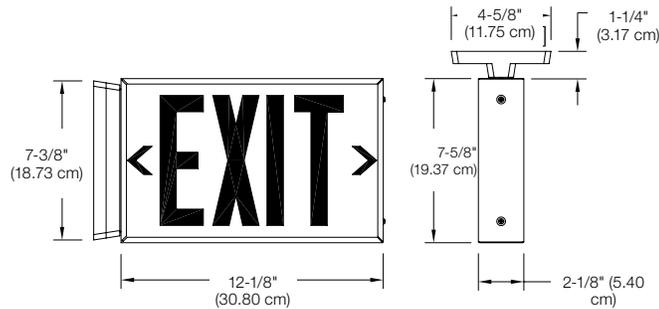


Brushed aluminum

Black

White

**Dimensions** (Dimensions are approximate and subject to change):



**Power consumption chart**

Model	AC Specs	DC Specs
AC-Only	120-277VAC, 50/60Hz (Less than 1.5W)	-
AC/DC	120-277VAC, 50/60Hz (Less than 1.5W)	6 to 24VDC (Less than 1.5W)
Self-powered	120-277VAC, 50/60Hz (Less than 3W)	Nd-Cd battery (Min. 90 minutes)

**Accessories** (Order as a separate item)

Description	Product code
White pendant	PW-*
Black pendant	PB-*
Wire guard (exit-ceiling or end mount)	WG5-L
Wire guard (exit-wall mount)	WG12-L

\*Specify pendant length (12", 24", 36" etc.)

**Ordering format – AC-only and Self-powered Models**

Series	Battery type	Back plate/ Frame color	Legend/ Face Plate Color	Legend source	Options
<b>UX4</b> = Universal (2) faceplates, (1) backplate and (1) canopy	<b>Blank</b> = AC-only <b>N</b> = Self-powered	<b>W</b> = White <b>B</b> = Black	<b>RW</b> = Red/White <b>RB</b> = Red/Black <b>RA</b> = Red/Aluminum <b>GW</b> = Green/White <b>GB</b> = Green/Black <b>GA</b> = Green/Aluminum	<b>LED</b> = LED	<b>Blank</b> = No options <b>-ID</b> = Improved Diagnostics <b>-NEX</b> = Nexus® wired <sup>1</sup> (consult your sales representative) <b>-NEXRF</b> = Nexus® wireless <sup>1</sup> (consult your sales representative) <b>-DC</b> = AC/DC 6V-24VDC <b>-VR</b> = Vandal resistant screws & lens

**Example: UX4WRWLED**

<sup>1</sup> Available in self-powered only

**Ordering format – UX4 LED Steel Exit & Combination units**

Series	Unit type	Back plate/ Frame color	Legend/ Face plate color	Legend source	Lamp head suffix	Lamp options	Options
<b>UX4</b> = Universal (2) faceplates, (1) backplate and (1) canopy	<b>E</b> = 6V-30W lead-calcium battery <b>EN</b> = 6V-24W Nickel-Cadmium battery	<b>W</b> = White <b>B</b> = Black	<b>RW</b> = Red/White <b>RB</b> = Red/Black <b>RA</b> = Red/Aluminum <b>GW</b> = Green/White <b>GB</b> = Green/Black <b>GA</b> = Green/Aluminum	<b>LED</b> = LED	<b>/0</b> = No heads <b>/1ELF3</b> = (1) ELF3 head <b>/2ELF3</b> = (2) ELF3 heads	<b>LD1</b> = 6V-4W MR16 LED	<b>Blank</b> = No options <b>-ID</b> = Improved Diagnostics (audible) <b>-IDNA</b> = Improved Diagnostics (non-audible) <sup>1</sup> <b>-NEX</b> = Nexus® wired <sup>1</sup> - combo unit only (consult your sales representative) <b>-NEXRF</b> = Nexus® wireless <sup>1</sup> - combo unit only (consult your sales representative) <b>-T3</b> = Time Delay 15 minutes <b>-VR</b> = Vandal resistant screws

**Example: UX4EWRWLED/2ELFLD1**

<sup>1</sup> Not available with EN model

## Grande™ Exit Series

Specification-grade, LED, thermoplastic, snap together exit sign



The Grande™ family offers complete emergency lighting solutions where style and design are required in an economical package.

### Construction

- Mist white or black UV stabilized thermoplastic enclosure
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

### Mounting

- Surface mount
- Canopy included for end or ceiling mount applications
- Universal J-Box mounting

### Special Wording Panels

Available. Contact your sales representative with your design requirements

### Grande™ Thermoplastic Family



Grande™  
Combo series

Grande™ Compact  
Battery series

Grande™  
Battery series

ELF640 &  
ELF650  
Remote series

### Electronics

- Optional Improved Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

### Approvals

- UL 924 Listed
- Damp location 50°F to 104°F (10°C to 40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA illumination standards
- E-California Energy Commission Title 20

**Warranty** (subject to proper installation and maintenance)

Five-year limited warranty

Detailed warranty terms located **online at:** [www.lightalarms.com](http://www.lightalarms.com)



### Housing color

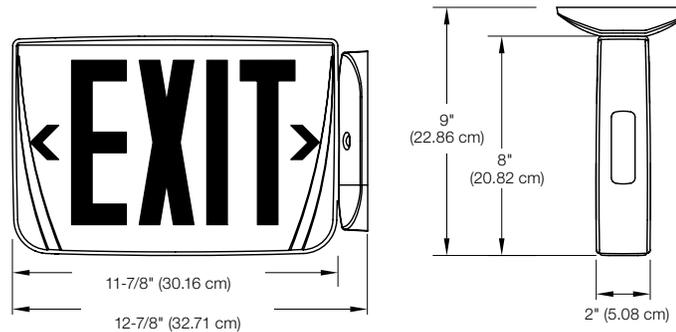


Black



White

**Dimensions** (Dimensions are approximate and subject to change):



**Power consumption chart**

Model	AC Specs	DC Specs
AC-Only	120/277VAC, 60Hz (Less than 2.5W)	-
AC / DC-remote	120/277VAC, 60Hz (Less than 2W)	6 to 48VDC (Less than 1.5W)
Self-powered	120/277VAC, 60Hz (Less than 3.3W)	Nickel-Cadmium battery (Min . 90 minutes)
Self-powered with Diagnostic	120/277VAC, 60Hz (Less than 2.8W)	Nickel-Cadmium battery (Min . 90 minutes)

**Accessories** (Order as a separate item)

Description	Product Code
Wire guard, Back mount	WG1-L
Wire guard (ceiling mount and end mount)	WG5-L
Pendant white	GRA-P*-W
Pendant black	GRA-P*-B

\*Specify pendant length (12", 24", 36" etc)

**Ordering format**

Series	Unit type	Legend color/ # of face	Housing color	Options
<b>GRAN</b>	<b>AC</b> = AC-Only (120/277V) <b>DC</b> = 120/277VAC & 6 to 48VDC <b>21</b> = Dual AC circuit (2x120V) <b>22</b> = Dual AC circuit (2x277V) <b>N</b> = Self-powered Nickel-Cadmium <b>ND</b> = Self-powered with Improved Diagnostics circuitry - <b>NEX</b> = Nexus® wired <sup>1</sup> - <b>NEXRF</b> = Nexus® wireless <sup>1</sup>	<b>R</b> = Red universal <b>G</b> = Green universal <b>R1</b> = Red single face <sup>3</sup> <b>R2</b> = Red double face <sup>3</sup> <b>G1</b> = Green single face <sup>3</sup> <b>G2</b> = Green double face <sup>3</sup> <b>Open face</b> <sup>2</sup> <b>RW</b> = Red on white universal <b>GW</b> = Green on white universal  <b>Universal</b> = (2) faceplates, (1) backplate and (1) canopy <b>Single face</b> = (1) faceplate, (1) backplate and (1) canopy <b>Double face</b> = (2) faceplates and (1) canopy	<b>W</b> = White <b>B</b> = Black	<b>BA</b> = Brushed aluminum exit stencil - <b>FAF</b> = Fire alarm activated flasher (AC, DC, 21,22 or ND models only) - <b>FB</b> = Flasher buzzer (ND model only) - <b>FBF</b> = Flasher Buzzer + Fire alarm activated flasher (ND model only) - <b>FL</b> = Flasher (ND model only) - <b>LVR1</b> = Polycarbonate shield with tamper proof screws - <b>VR</b> = Vandal-resistant screws

**Example: GRANACRW**

<sup>1</sup> Consult your sales representative

<sup>2</sup> Open face required with special wording legends

<sup>3</sup> Specify single or double for LVR1 or VR options only

## Severe™ XV & XVE Series

NEMA-4X, vandal resistant and harsh environment exit sign



The Severe™ XV Series exit sign is a part of the Severe™ family of NEMA-4X rated emergency lighting products. The Severe™ family offers complete emergency lighting solutions for commercial and industrial environments where protection against humidity, dust, water infiltration and the risk of vandalism are specification criteria. These products deliver state-of-the-art illumination in a visually appealing package.

### Construction

- Full gasketed NEMA-4X housing
- Frame: polyvinyl chloride enclosure, fully gasketed around the lens, backplate and canopy to prevent water infiltration
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy aluminum
- Comes with both Phillips head and tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons
- Choice of finishes: white, black or gray

### Mounting

- Surface mount applications
- Ceiling and wall mount are NEMA-4X
- End and pendant mount are not NEMA-4X
- Canopy included for end or ceiling mount applications
- Universal J-box mounting
- ½ inch conduit entry on top and sides

### Special Wording Panels

Available. Contact your sales representative with your design requirements

### Housing/Face color



Black



White



Gray



Aluminum

### The Severe™ NEMA-4X Rated and NSF Certified Family



Severe™ XV12E & XV24E  
Combo series



Severe™ V  
Battery unit



Severe™ ELF650  
Remote series

### Electronics

- Magnetically operated test switch
- Standard Improved Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277 60Hz

### Approvals

- UL 924 listed
- UL listed for wet and damp location  
50°F to 104°F (10°C to 40°C)
- UL listed for cold weather option-40°F to +104°F  
(-40°C to +40°C)
- Meets NFPA101 (Life Safety Code), NFPA 70 NEC, OSHA  
illumination standards
- E-California Energy Commission Title 20

**Warranty** (subject to proper installation and maintenance)

Five-year limited warranty

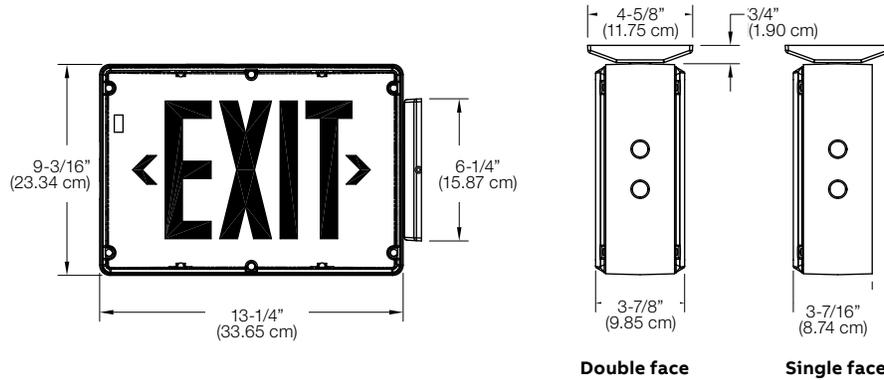
Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**

nexus

NEMA-4X



**Dimensions** (Dimensions are approximate and subject to change):



**Power consumption chart**

Model	AC Specs	DC Specs
AC-Only	120-277VAC, 50/60Hz (1.2W)	-
AC/DC	120-277VAC, 50/60Hz (1.2W)	6 to 24VDC (Less than 1.5W)
Self-Powered	120-277VAC, 50/60Hz (3.7W)	Ni-Cd battery (Min. 90 minutes)

**Accessories** (Order as a separate item)

Description	Product code
Convert single face to double face, red (in the field)	DFKR-*
Convert single face to double face, green (in the field)	DFKG-*
Tamper-Proof Bit (extra)	690.0454-L

\*Specify White (WT) or Black (BK) housing

**Ordering format**

Housing/ Face color	Series	Faces	Legend color	Diagnostic	Housing	Options
<b>Blank</b> = Black/Black	<b>XV</b> = AC-only	-1= Single face	-R= Red	<b>Blank</b> = AC-Only models	<b>-4X</b> = NEMA-4X	<b>Blank</b> = No options
<b>BW</b> = Black/White	<b>XVE</b> = Self-	-2= Double face	-G= Green	<b>-D</b> = Improved Diagnostics	housing <sup>2</sup>	<b>-2</b> = Dual Circuit (120/120 or
<b>BA</b> = Black/Aluminum	powered			(non-audible, standard) <sup>1</sup>		277/277AC only) <sup>3</sup>
<b>GB</b> = Gray/Black	Nickel-			<b>-NEX</b> = Nexus <sup>®</sup> wired <sup>1</sup>		<b>-DC</b> = AC/DC 6V to 24VDC <sup>3</sup>
<b>GW</b> = Gray/White	Cadmium			(contact your sales representative)		<b>-CW</b> = Cold weather (Self-Powered
<b>GA</b> = Gray/Aluminum	battery			<b>-NEXRF</b> = Nexus <sup>®</sup>		-4°F to 104°F, -20°C to 40°C)
<b>WB</b> = White/Black				wireless <sup>1</sup> (contact your sales representative)		(AC/DC -40°F to 104°F, -40°C to 40°C)
<b>WW</b> = White/White						<b>-Y</b> = Open face/special wording
<b>WA</b> = White/Aluminum						<b>-CM</b> = Pendant mount

**Example: BAXVE-1-R-D-4X-CW**

<sup>1</sup> Available with Self-Powered models only.  
<sup>2</sup> Wall or ceiling mount only  
<sup>3</sup> Not available with -NEX or -NEXRF, Nexus<sup>®</sup> option

## Phantom™ Series

The unseen solution 12V up to 100W capacities – generator capable



### Housing

- Galvanized steel back-box
- Easy access to internal components
- Head assembly door and trim plate powder coated in a white finish
- Finish can be customized on site with paint or wallpaper
- Choice of various 12 volt MR16 LED lamp wattages
- Complete 360° head assembly door rotation
- Slip gear mechanism protects unit and objects against forcible stops

### Mounting

- Recessed mount into ceiling or wall with cavities
- Hanger bars included for lay-in installation in T-bar grid
- Can be installed on the wall stud or ceiling beam with simple, U-shape bracket
- Head assembly includes keyhole slot and quick-connect plugs for easy installation

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional: Improved Diagnostics
- 120/277 60Hz

### Choice of Sealed Maintenance-Free Battery

- 12V Lead-Calcium battery

### Approval

- CSA-US (To UL 924 standards)
- BC – California Energy Commission Title 20

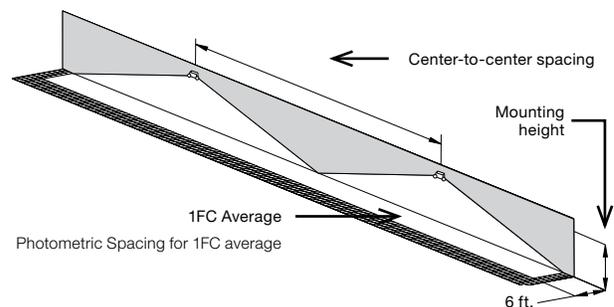
**Warranty** (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on **page 182** or online at: [www.lightalarms.com](http://www.lightalarms.com)

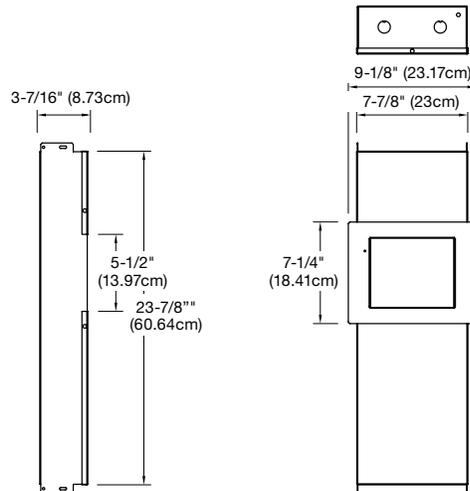
### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'



**Dimensions** (Dimensions are approximate and subject to change):

**Charger and battery compartment:**  
For use in walls or ceilings with a cavity, not for use in block walls or solid ceilings.



**Power consumption chart**

Series	Battery	Voltage	DC Specs				AC Specs			
			Battery capacity (in watts)				AC Input	Input current	Maximum Input power	Stand by Input Power
90 Mins	2 Hrs	3 Hrs	4 Hrs							
PHM40	Lead-Calcium	12V	40	30	24	120V	0.25A	30W	0.79W	
PHM70	Lead-Calcium	12V	70	50	40	277V	0.12A			
PHM100	Lead-Calcium	12V	100	70	50					

**Accessories** (Order as a separate item)

Description	Product code
Remote Test Switch (Metal Faceplate)	PSW
Remote Test Switch (Plastic Faceplate)	PSW-1

**Ordering format**

Series	Battery	Capacity	Number of heads	Lamp type	Options	Approval
PH= Battery unit	M= Lead-Calcium	40= 12V-40W 70= 12V-70W 100= 12V-100W	-2= Two lamps	MR16 LED (LD7)= 12V-4W (LD9)= 12V-5W (LD10)= 12V-6W	MR16 Halogen High Output (50H)= 12V-50W	Blank= No Options -CEC= CEC Title 20 for California <sup>2</sup> ID= Improved Diagnostics (audible) <sup>1</sup> IDNA= Improved Diagnostics (non audible) <sup>1</sup> T3= Time delay (15 minute) DL= Damp location X= Back box shipped separate

**Example: PHM100-2LD7-CEC**

<sup>1</sup> -ID & -IDNA include a time delay feature that can be enabled/ disabled in the field or set by the factory by including -ID-TD\* or -IDNA-TD\*  
<sup>2</sup> Must choose ID or IDNA

Series	Input voltage	Number of heads	Lamp type	Options
PHG= Generator unit	1= 120VAC, 60Hz 2= 277VAC, 60Hz	-2= Two lamps	MR16 LED (LD7)= 12V-4W (LD9)= 12V-5W (LD10)= 12V-6W	MR16 Halogen High Output (50H)= 12V-50W DL= Damp location X= Back box shipped separately

**Example: PHG1-2LD7**

## Mini-Phantom™ Series

The full retrofit unseen solution 12V-40W capacities – generator capable



### Housing

- Galvanized steel back-box
- Easy access to internal components
- Head assembly door and trim plate powder coated in a white finish
- Finish can be customized on site with paint or wallpaper
- Choice of various 12 volt MR16 LED lamp wattages
- Complete 360° head assembly door rotation
- Slip gear mechanism protects unit and objects against forcible stops

### Mounting

- Recessed wall or ceiling with cavity mount (retrofit into finished wall)
- Designed to install into an 8-1/4" by 5-3/4" opening
- Key-hole slot for ease of installation

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional: Improved Diagnostics
- 120/277 60Hz

### Choice of Sealed Maintenance-Free Battery

- 12V Lead-Calcium battery

### Approval

- CSA-US (To UL 924 standards)
- BC – California Energy Commission Title 20

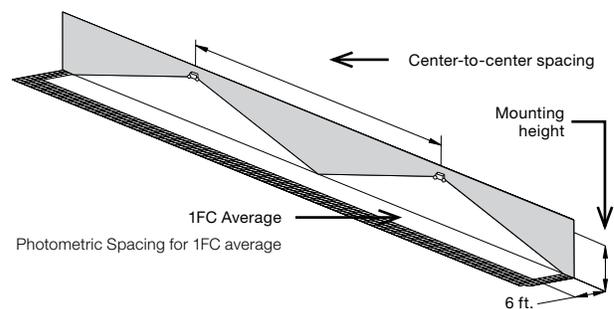
**Warranty** (subject to proper installation and maintenance)

Unit: five-year limited warranty

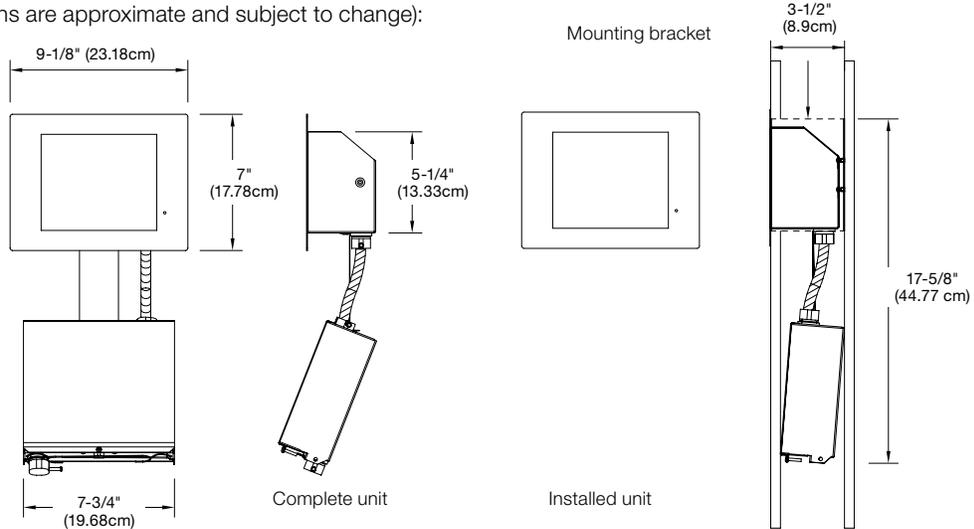
Detailed warranty terms located on **page 182** or online at: [www.lightalarms.com](http://www.lightalarms.com)

### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'
5OH	160'	171'



**Dimensions** (Dimensions are approximate and subject to change):



**Power consumption chart**

Series	Ac Input	Input Current	AC Specs	
			Maximum Inpur Power	Stand-by Input Power
MRTM40	120VAC	0.25A	30W	0.79W
	277VAC	0.12A	30W	

<sup>1</sup>Maximum power when equipped with 2x 50W lamps

**Unit rating chart**

Series	Watts to 87.5 of rated battery voltage*			
	1 1/2 Hrs	2 Hrs	3 Hrs	4 Hrs
MPHM40	40	30	24	12

<sup>1</sup> National Electrical Code Specification

**Accessories** (Order as a separate item)

Description	Product code
Remote test switch (Metal faceplate)	PSW
Remote test switch (Plastic faceplate)	PSW-1

**Ordering format – Battery unit**

Series	Battery	Capacity	Number of heads	Lamp type	Options	Approval
MPH	M= Lead-Calcium	40= 12V-40W	-2= Two lamps	MR16 LED (LD7)= 12V-4W (LD9)= 12V-5W (LD10)= 12V-6W	Blank= No options ID= Improved Diagnostics (audible) <sup>1</sup> IDNA= Improved Diagnostics (non audible) <sup>1</sup> T3= Time delay (15 minute)	-CEC= CEC Title 20 for California*

**Example: MPH40-2(LD7)DL-CEC**

<sup>1</sup> -ID & -IDNA include a time delay feature that can be enabled/ disabled in the field or set by the factory by including -ID-TD\* or -IDNA-TD\*  
<sup>2</sup> Must choose ID or IDNA

**Ordering format – Generator**

Series	Input voltage	Number of heads	Lamp type	Options
MPHG= Generator unit	1= 120VAC, 60Hz 2= 277VAC, 60Hz	-2= Two lamps	MR16 LED (LD7)= 12V-4W (LD9)= 12V-5W (LD10)= 12V-6W	MR16 Halogen High Output (50H)= 12V-50W DL= Damp location

**Example: MPHG1-2(LD7)DL**

## Cluster™ LED LCA-2LED



### Housing

- UV stabilized thermoplastic body
- Fully adjustable Cluster™ LED glare-free heads
- Choice of white or black housing

### Mounting

- Ceiling or wall mount
- Universal J-box mounting

### Lamp Type

- White LED 3.6V-3.6W, with life expectancy 50,000+ hours, 70 lumens per head

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional: Improved Diagnostics
- 120/277 60Hz

### Photometric performance

Spacing center-to-center (feet)	
7 feet mounting height	15 feet mounting height
15'	4'

### Sealed Maintenance-Free Battery

3.6V Nickel-Cadmium battery

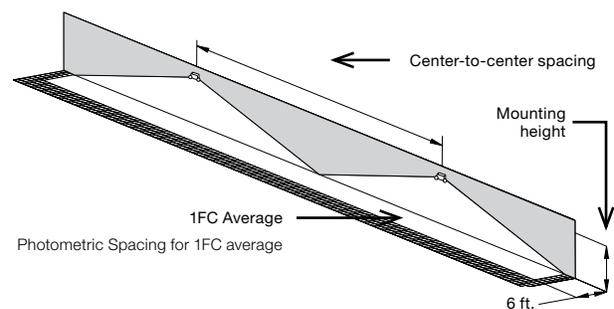
### Approvals

- UL 924 listed
- Damp location 50°F to 104°F (10°C to 40°C)
- UL 94, 5VA flame rated
- BC- California Energy Commission Title 20

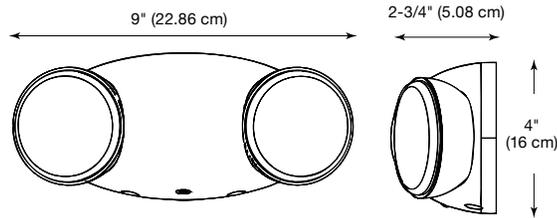
**Warranty** (subject to proper installation and maintenance)

Three-year full warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**



**Dimensions** (Dimensions are approximate and subject to change)



**Power consumption chart and unit rating**

Series	AC specs	AC power stand-by	AC Specs	DC Specs
			120VAC, 60Hz	277VAC, 60Hz
LCA-2LED	120/277VAC 0.1 / 0.10A	0.7W	0.191/0.92	0.129/1.62

**Ordering format - Battery unit**

Series	Lamp	Capacity	Color
LCA	-2LED= Cluster LED head style	Blank= No Remote	Blank= Mist-white B= Black

**Example: LCA-2LED**

## LCA-2RHL Series

High output lithium LED battery unit



### Housing

- UV stabilized thermoplastic body
- Two adjustable high output LED lighting heads
- White finish

### Mounting

- Wall or ceiling mount
- Universal J-box mounting

### Lamp type

- Two 9.6V-5.4W LED heads, 550 lumens per head

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Improved Diagnostics
- 120/277 60Hz

### Battery type

- 9.6V Lithium phosphate battery

### Photometric performance

Mounting height	Spacing center-to-center (feet)	
	6 ft spacing distance	
7.5'		90'
10'		78'

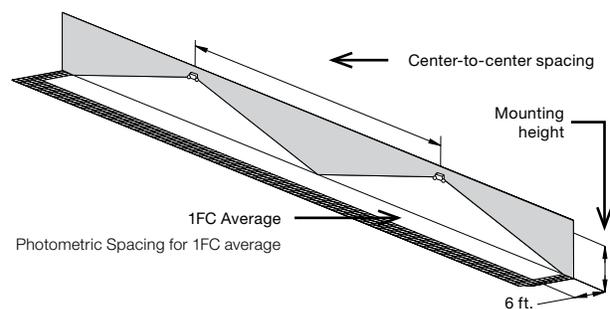
### Approvals

- UL 924 Listed
- Damp location (50°F to 104°F)
- UL 94, 5VA flame rated
- BC- California Energy Commission Title 20

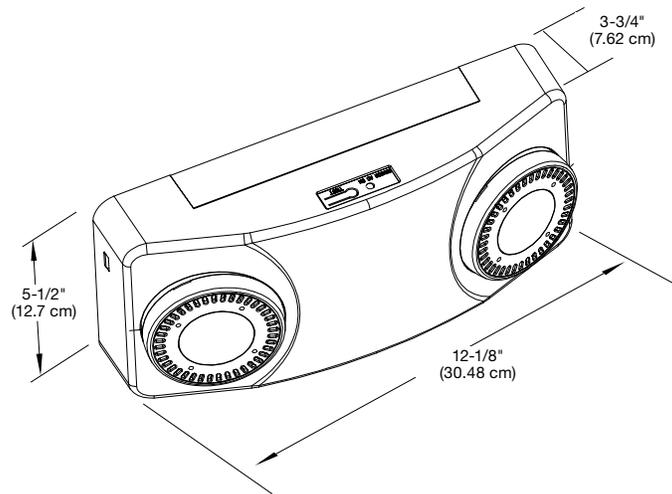
**Warranty** (subject to proper installation and maintenance)

Unit: three-year full warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**



**Dimensions** (Dimensions are approximate and subject to change)



**Power consumption chart and unit rating**

Series	AC specs	AC power stand-by
LCA-2RHL-ID	120/277VAC 0.06 / 0.20A	0.5W

**Ordering format**

Series	Heads
LCA	-2RHL-ID= Two round high output LED heads Improved Diagnostics

**Example: LCA-2RHL-ID**

## Protector™ Series

6V Thermoplastic housing protected lamps choice of LED or incandescent



### Housing

- White or black UV stabilized thermoplastic enclosure
- Clear polycarbonate lens covers
- 6V 4W MR16 LED lamps

### Mounting

- Surface mount
- Universal J-box mounting

### Lamp Type

- MR16 LED Lamp, 6V-4W

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional: Improved Diagnostics
- Optional: Nexus® monitoring system
- 120/277 60Hz

### Choice of Sealed Maintenance-Free Battery

- 6V Lead-Calcium battery

### Approval

- UL 924 Listed
- Damp location optional 50°F to 104°F (10°C to 40°C)
- BC – California Energy Commission Title 20

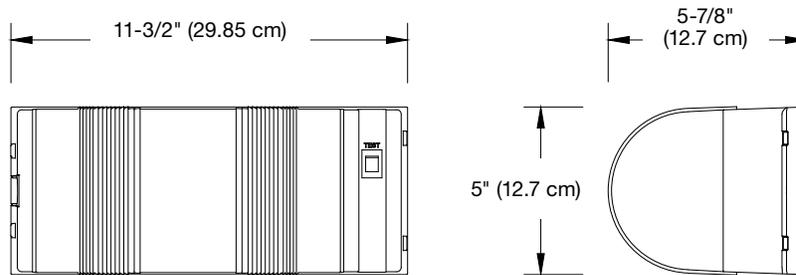
**Warranty** (subject to proper installation and maintenance)

Unit: five-year limited warranty

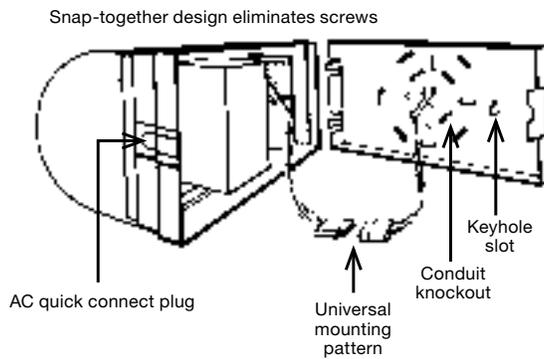
Detailed warranty terms located on **page 182** or online at: [www.lightalarms.com](http://www.lightalarms.com)



**Dimensions** (Dimensions are approximate and subject to change):



**Fast & easy installation**



**Power consumption chart**

Ac Input	Input Current	Maximum Input Power	Stand-by Input Power
120VAC	0.10A	12W	0.72W
277VAC	0.05A		

**Unit rating chart**

Series	Rated capacity in Watts*			
	1 1/2 Hrs	2 Hrs	3 Hrs	4 Hrs
PRO-2N -ADCEC	10	8	-	-

\* National Electrical Code Specification

**Accessories** (Order as a separate item)

Description	Product code
Additional special bit for tamper-proof screws	690.0454-L
Replacements lamps MR16 LED 6V-4W	580.0097-L

**Ordering format**

Heads	Series	Lamp suffix	Charger type	Options	Approval
2= 2 heads	PT10= 6V-10.8W	LD1= 6V-4W, MR16 LED	ID= Improved Diagnostics (audible) IDNA= Improved Diagnostics (non-audible) NEX= Nexus® wired NEXRF= Nexus® wireless	Blank= Mist white B= Black DL= Damp locations 68-86°F (20-30°C) VS= Vandal-resistant screws 3CP= Line cord 120V (supplied but not installed) CM= Ceiling mount	-CEC= CEC Title 20 for California <sup>1</sup>

**Example: 2PT10LD1ID-CEC**

<sup>1</sup> Must choose ID, IDNA or NEXRF

## Grande™ Compact Series

Thermoplastic housing 6V up to 10W & 12V up to 20W capacities



### Grande™ Thermoplastic Family



#### Housing

- White or black UV stabilized thermoplastic enclosure
- Clear polycarbonate lens covers
- Choice of MR16 LED lamp wattages

#### Mounting

- Wall mount  
Optional: ceiling mount and pendant mount
- Universal J-box mounting

#### Lamp type

- Two MR16 LED lamps

#### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional: Improved Diagnostics
- Optional: Nexus® monitoring system
- 120/277 60Hz

#### Choice of battery

- 6V or 12V Lead-calcium battery
- 6V or 12V Nickel-metal hydride

#### Approval

- UL 924 Standards
- UL 94-5VA flame rated thermoplastic house
- Damp location listed 50°F to 104°F (10°C to 40°C)
- BC - California Energy Commission Title 20

#### Warranty (subject to proper installation and maintenance)

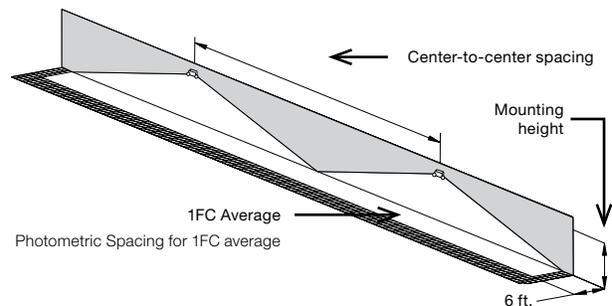
- Unit has a five-year full warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**

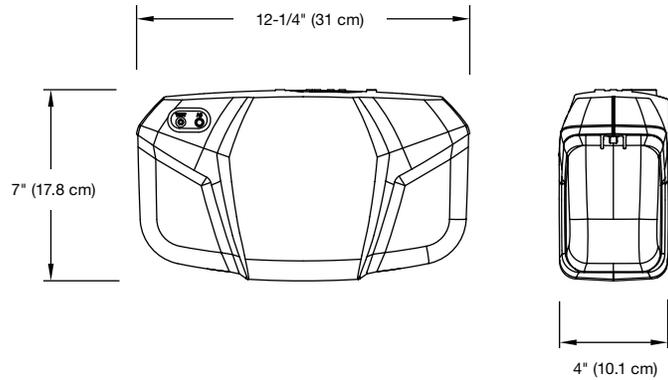


#### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 Feet Mounting height	15 Feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'



**Dimensions** (Dimensions are approximate and subject to change)



**Power consumption chart**

Series	AC Specs		Battery	Voltage	DC Specs			
	AC input	Current draw			87.5% Battery capacity (in watts) <sup>1</sup>			
					90 Mins	2 Hrs	3 Hrs	4 Hrs
MGRA1		0.12 / 0.5A		6V-10W	10W	7.5W	5W	3.3W
MGR12A1	120/277	0.20 / 0.09A	Lead-Calcium	12V-12W	12W	9W	6W	4W
MGR12A2		0.20/ 0.09A		12V-20W	20W	15W	10W	6.5W

<sup>1</sup> National Electrical Code Specification

**Ordering format**

Number of heads	Series/Capacity	Lamp/Wattage	Housing color	Diagnostic	Options	Approval
<b>Blank</b> = No heads	<b>MGRA1</b> = 6V-10W Lead-Calcium	<b>/LD1</b> = 6V-4W <b>/LD7</b> = 12V-4W	<b>-M</b> = Mist white	<b>Blank</b> = Standard <b>-ID</b> = Improved Diagnostics (audible)	<b>Blank</b> = No option <b>-CM</b> = Ceiling mount <b>-DL</b> = Damp locations <sup>1</sup> <b>-LC</b> = Line cord (120V only) <b>-PM</b> = Pendant mount <sup>2</sup>	<b>-CEC</b> = CEC Title 20 for California
<b>2</b> = Two heads	<b>MGR12A1</b> = 12V-12W Lead-Calcium <b>MGR12A2</b> = 12V-20W Lead-Calcium	<b>/LD9</b> = 12V-5W <b>/LD10</b> = 12V-6W	<b>-B</b> = Black	<b>-IDNA</b> = Improved Diagnostics (non audible) <b>-NEX</b> = Nexus® wired compatible (consult your sales representative) <b>-NEXRF</b> = Nexus® wireless compatible (consult your sales representative)	<b>-T3</b> = Time delay (15 minute) <b>ZU</b> = 120/208/220-240V 50/60Hz input <sup>3</sup>	

**Example: 2MGRA1LD1M-CEC**

<sup>1</sup> Not available in MGRA1

<sup>2</sup> -PM Sold separately

<sup>3</sup> Not available with -NEX and -NEXRF

## MG & MN Series

Steel housing 6V up to 36W & 12V up to 54W capacities



### Housing

- Steel housing
- Standard mist white finish, optional black finish
- Choice of MR16 LED lamp voltages and wattages
- Heads available in thermoplastic or decorative die-cast aluminum

### Mounting

- Ceiling or wall mount
- Universal J-box mounting

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional Improved Diagnostics
- Optional Nexus® monitoring system
- 120/277 60Hz

### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	43'	36'
LD7	55'	43'
LD9	71'	56'
LD10	100'	85'

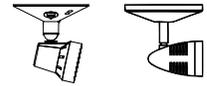
### Housing color



Black



Mist White



**Available Head Style Choices:** ELF3 DR130  
**Head Style Suffix:** /ELF3 /DR130

### Choice of Battery

- 6V or 12V Lead-Calcium battery

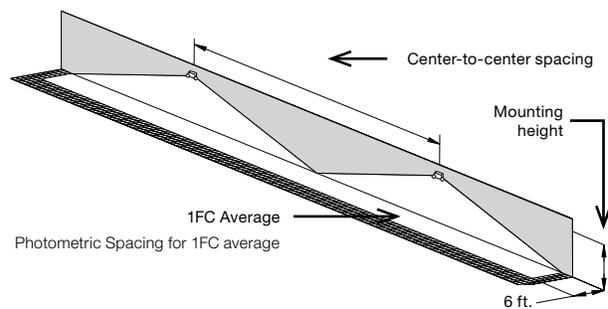
### Approvals

- UL 924 Standard
- BC- California Energy Commission Title 20

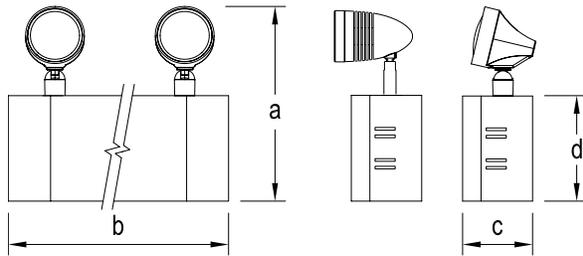
### Warranty (subject to proper installation and maintenance)

Unit: three-year limited warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**



**Dimensions** (Dimensions are approximate and subject to change)



**Cabinet dimensions**

Units	Cabinet	a	b	c	d
50W and under	S	11-3/8"	11"	3-1/2"	5-1/4"
54W and higher	L	12-3/8" 10-3/4"	12-1/2"	4"	6-1/4"

**Power consumption chart**

Series	Battery	Voltage	DC Specs				Units dual voltage <sup>1</sup>	AC Specs Current Maximum
			Battery capacity (in watts)					
			90 Mins	2 Hrs	3 Hrs	4 Hrs		
MG18	Lead-Calcium	6V	18	12	0	120VAC 277VAC	0.3A 0.15A	
MG1		6V	27	18	14			
MG2		6V	54	37	28			21
M12G1		12V	36	25	20			14
M12G2		12V	54	37	28			21

<sup>1</sup> All units 120/277 dual voltage, information based on wiring to specific voltage type

**Accessories** (Order as a separate item)

Description	Product code
Mounting platform	MP-PQA
Wire guard (S cabinet)	WG1-L
Wire guard (L cabinet)	WG2-L
Wire guard (Front mounted heads)	WG10-L

**Ordering format**

Number of heads	Series/Capacity	Head style	Lamp type	Housing color	Options	Approval	
0= No Heads	<b>Lead-Calcium battery</b>	/ELF3= ELF3 (MR16, Plastic)	LD1= 6V-4W MR16 LED	-M= Mist white	<b>Blank</b> = No Options -ID= Improved Diagnostics (audible) <sup>2</sup> -IDNA= Improved Diagnostics (non audible) <sup>2</sup> -FM= Front mounted heads -NEX= Nexus® Wired (contact your sales representative) -NEXRF= Nexus® Wireless (contact your sales representative) -T3= Time delay (15 minute) -FM= Front mounted heads -3CP= 120V Cord & plug, 3 wire, 3ft long <sup>3</sup> -3CP277= 120V cord & plug 3 wire, 3 ft. long <sup>3</sup>	<b>-CEC</b> = CEC Title 20 for California <sup>4</sup>	
1= One Head			LD7= 12V-4W MR16 LED	-B= Black			
2= Two Heads		MG18= 6V-18W	/DR130= DR130 (MR16, Metal)	LD9= 12V-5W MR16 LED			
3= Three Heads		MG1= 6V-27W		LD10= 12V-6W MR16 LED			
		MG2= 6V-54W <sup>1</sup>					
	M12G1= 12V-36W						
	M12G2= 12V-54W <sup>1</sup>						

**Example: 2MG18/ELF3-LD1-M-ID-CEC**

<sup>1</sup> MG2 & M12G2 models use L cabinet size

<sup>2</sup> -ID & -IDNA include a time delay feature that can be enabled/disabled in the field or set by the factory by including -ID-TD\* or -IDNA-TD\*

<sup>3</sup> -3CP custom lengths available. Consult your sales representative

<sup>4</sup> - Must chose ID, IDNA or NEXRF

## MG/MN-SP Series

Steel housing 12V 36W capacitive Lead-Calcium high performance LED heads, suitable for NEMA 1 location



### Housing

- Steel housing
- Standard gray finish, optional black finish

### Lamp heads

- 6W (L6 lamp suffix), 10W (L10 lamp suffix) and 15W (L15 lamp suffix) high efficacy LED emergency heads outperform traditional 50W MR16-IR Halogen
- Black heads available in 15W (L15 lamp suffix) only
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure
- Die-cast aluminum, LED heads

### Mounting

- Wall or ceiling mount
- Universal J-box mounting

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Optional: Improved Diagnostics
- Optional: Nexus® monitoring system
- 120/277 60Hz

### Choice of Battery

- 12V Lead-Calcium battery

### Approvals

- UL 924 Listed
- BC- California Energy Commission Title 20

**Warranty** (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**

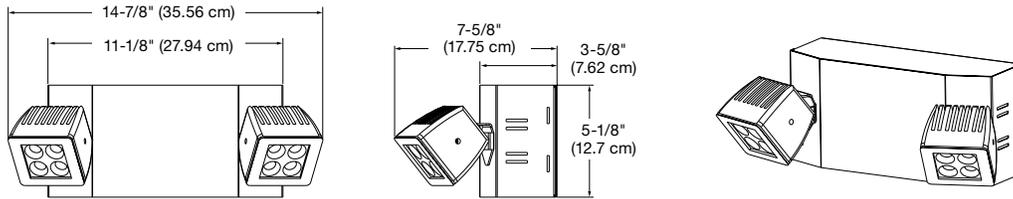


### Power consumption chart

Series	Battery	Voltage	DC Specs				AC Specs	
			Battery capacity (in watts)				Units dual voltage <sup>1</sup>	Current Maximum
			90 Mins	2 Hrs	3 Hrs	4 Hrs		
M12G1	Lead-Calcium	12V	36	25	20	14	120VAC / 277VAC	0.3A / 0.15A

<sup>1</sup> All units 120/277 dual voltage, information based on wiring to specific voltage type

**Dimensions** (Dimensions are approximate and subject to change)



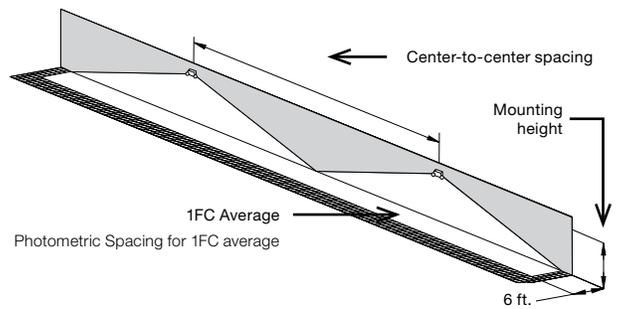
**Photometry performance**

For NEMA 1 type application, the MG/MN-SP Series LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the required illumination levels need for the application, choose between three level of lumen output using a 6W, 10W or 15W head.

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L6	6W	565	37W PAR36, MR16 Halogen
L10	10W	1000	50W PAR36, MR16 Halogen
L15	15W	1300	50W MR16-IR Halogen

**Spacing center-to-center (feet)**

Mounting height	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'



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

**Accessories** (Order as a separate item)

Description	Product code
Mounting platform	MP-PQA
Wire Guard	WG10-L

**Ordering format**

Number of heads	Series/Capacity	Head style	Housing color	Mounting head	Options	Approval
2= Two heads	<b>Lead-Calcium battery</b> M12G1SP= 12V-36W	/L6= 12V-6W (565 Lumens/head) /L10= 12V-10W (1000 Lumens/head) /L15= 12V-15W (1300 Lumens/head)	G= Gray B= Black	-FM= Front mount heads	Blank= No options -ID= Improved Diagnostics (audible) <sup>1</sup> -IDNA= Improved Diagnostics (non audible) <sup>1</sup> -NEX= Nexus® Wired compatible <sup>2</sup> -NEXRF= Nexus® Wireless compatible <sup>2</sup> -T3= Time delay (15 minute) -3CP= 120V Cord & Plug, 3 wire, 3ft long <sup>3</sup> -3CP277= 277V Cord & plug, 3 wire, 3ft long <sup>3</sup>	-CEC= CEC Title 20 for California <sup>4</sup>

**Example: 2M12G1SP/L15G-FM-ID-CEC**

<sup>1</sup> -ID & -IDNA include a time delay feature that can be enabled/ disabled in the field or set by the factory by including -ID-TD\* or -IDNA-TD\*  
<sup>2</sup> -NEX & -NEXRF is CSA-US approved only. Consult your sales representative  
<sup>3</sup> -3CP & -3CP277 custom lengths available . Consult your sales representative  
<sup>4</sup> -Must chose ID, IDNA or NEXRF

## Severe™ Series

NEMA-4X, NSF, Vandal-Resistant housing 6V-18W & 12V up to 54W capacities  
Lead-Calcium, Nickel-Cadmium or Nickel-Metal Hydride battery



### Housing

- Full gasketed NEMA-4X housing
- Vandal-resistant UV stabilized polycarbonate cover
- Comes with both Phillips head and tamper-proof screws

### Mounting

- Universal J-box mounting
- Strut or I-beam installation bracket sold separately (order catalog number: PMK-E)

### Lamp type

- Choice of MR16 LED lamp voltages and wattages

### Electronics

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Magnetic test switch
- Standard Improved Diagnostics (non-audible)
- Standard 15 minutes time delay
- Optional: Nexus® monitoring system
- 120/277 60Hz

### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'

### Housing color



Black

White

Gray

### The Severe™ XV Series Family

Severe™ XV  
exit seriesSevere™ XV  
combo seriesSevere™ ELF650  
remote series

### Choice of Battery

- 6V or 12V Lead-Calcium battery

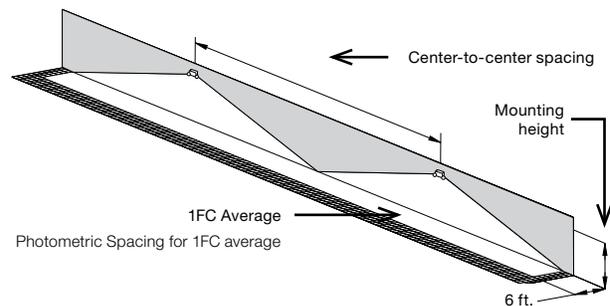
### Approvals

- UL 924 Listed
- UL listed for wet and damp location 50°F to 104°F (10°C to 40°C)
- UL listed for cold weather option -40°F to 104°F (-40°C to 40°C)
- NSF certified for use in food processing plants
- NEMA-4X Rated
- BC- California Energy Commission Title 20

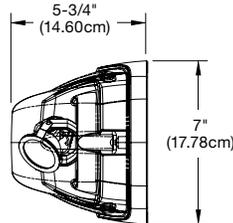
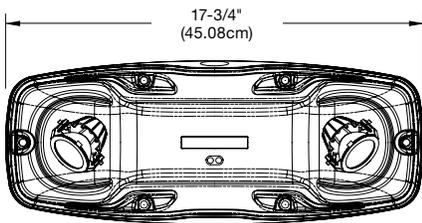
### Warranty (subject to proper installation and maintenance)

Unit: five-year full warranty

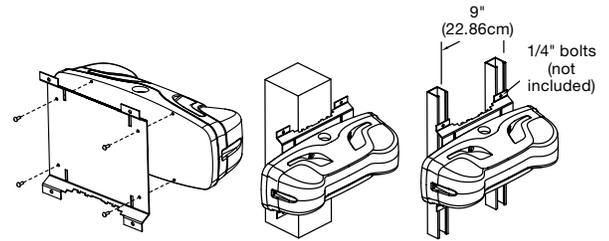
Detailed warranty terms located online at: [www.lightalarms.com](http://www.lightalarms.com)



**Dimensions** (Dimensions are approximate and subject to change)



**Universal mounting brackets**



**Power consumption & unit rating chart**

Series	Battery	Voltage	DC Specs				AC Specs		
			Battery capacity (in watts)				Units dual voltage <sup>1</sup>	Current Maximum	Power Maximum
			90 Mins	2 Hrs	3 Hrs	4 Hrs			
VG1		6V	18	12	-	-			
V12G1	Lead-Calcium	12V	24	16	12	-	120VAC	0.2A	20W
V12G2		12V	36	24	20	14	277VAC	0.11A	20W
V12G3		12V	54	36	27	20			
V12G1-CW4	With cold-weather option	12V	24	Note 2	-	-	120/277VAC	0.4A/0.3A	60W
V12G2-CW4		12V	36		-	-		0.7A/4A	100W

<sup>1</sup> All units 120/277 dual voltage, information based on wiring to specific voltage type  
<sup>2</sup> Dependent on lower ambient temperatures

**Accessories** (Order as a separate item)

Description	Product code
Bit for Tamper-proof screws	690.0454-L
Universal mounting bracket	PMK-L

**Ordering format**

# of heads	Series/Capacity	Lamp type	Housing color	Diagnostics	Options	Approval
2= Two heads	<b>Lead-Calcium battery</b> <b>VG1</b> = 6V-18W <b>V12G1</b> = 12V-24W <b>V12G2</b> = 12V-36W <b>V12G3</b> = 12V-54W	<b>MR16 LED Lamp</b> <b>LD1</b> = 6V-4W <b>LD7</b> = 12V-4W <b>LD9</b> = 12V-5W <b>LD10</b> = 12V-6W	<b>-B</b> = Black <b>-G</b> = Gray <b>-M</b> = White	<b>Standard Diagnostic</b> <b>-D</b> = Improved Diagnostics, non-audible <b>Optional Diagnostic</b> <b>-DA</b> = Improved Diagnostics, audible <b>NEX</b> = Nexus® Wired (contact your sales representative) <b>NEXRF</b> = Nexus® Wireless (contact your sales representative)	<b>Blank</b> = No Options <b>-T3</b> = Time delay (15 minute) <b>-CW4</b> = Cold Weather -40°F to 104°F (-40°C to 40°C) <sup>1</sup> <b>-SMC</b> = Surface ceiling mount	<b>-CEC</b> = CEC Title 20 for California

**Example: 2V12G2/LD10-B-D-CEC**

<sup>1</sup> - CW4 option only available with V12G1 & V12G2 models

## ELF650 Series

### ELF650 NEMA-4X & NSF Certified



#### Description

- ELF650 and ELF650P NEMA-4X and NSF certified indoor or outdoor use
- ELF650 and ELF650P NEMA-4X and NSF certified with choice of fully gasketed cast aluminum or plastic back plate
- ELF650 and ELF650P NEMA-4X and NSF certified comes standard with Phillips head screws and tamper proof screws
- Include clear polycarbonate UV impact resistant cover

#### Lamp type

Choice of MR16 LED lamp voltages and wattages

#### Mounting

- Surface mount
- Universal J-Box mounting

#### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	39'	34'
LD7	49'	39'
LD9	68'	54'
LD10	89'	80'
LD13	51'	39'
LD25	43'	39'

#### Approvals

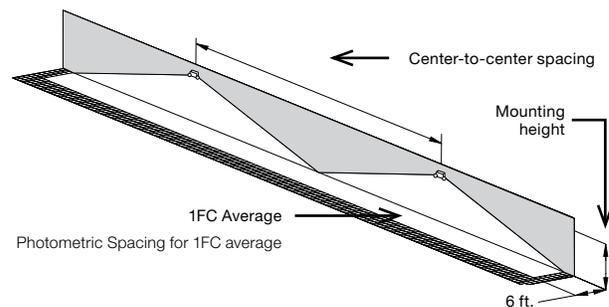
- UL 924 listed
- Vandal resistant
- NEMA-4X<sup>1</sup>
- NSF Rated

**Warranty** (subject to proper installation and maintenance)

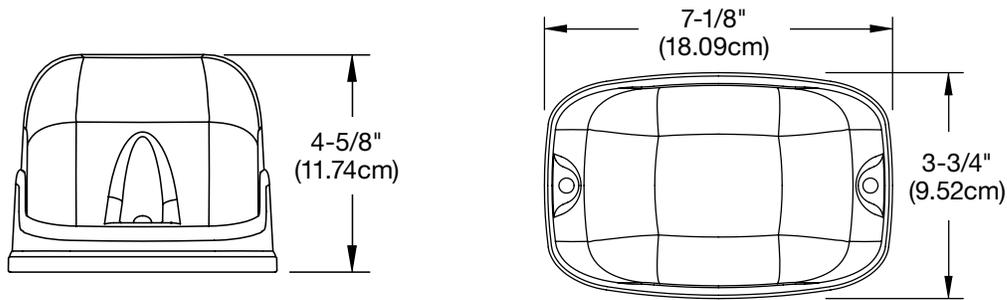
Unit: five-year full warranty

Detailed warranty terms located **online at: [www.lightalarms.com](http://www.lightalarms.com)**

<sup>1</sup>NEMA-4X Certified when installed using a circular NEMA-4X rated junction box (sold separately by Thomas&Betts under P/N 091647-L)



**Dimensions** (Dimensions are approximate and subject to change)



**Lamp selection chart**

MR 16 LED lamps				
Lamp suffix	Voltage	Wattage	Lumens	Replacement #
LD1	6	4	130	580.0097-L
LD7	12	4	170	580.0093-L
LD9	12	5	340	580.0104-L
LD10	12	6	510	580.0106-L
LD13	24	4	200	580.0098-L
LD25	120	4	204	580.0095-L

**Ordering format**

Series	Lamp suffix	Color	Voltage	Options
<b>ELF650</b> = Die-Cast back plate NEMA-4X and NSF Certified with single head	/ _____ <sup>1</sup>	- <b>M</b> = Mist white	<b>6</b> = 6 VDC	<b>Blank</b> = no option
<b>ELF650D</b> = Die-Cast back plate NEMA-4X and NSF Certified with double head		- <b>B</b> = Black	<b>12</b> = 12 VDC	
<b>ELF650P</b> = All polycarbonate NEMA-4X and NSF Certified with single head <sup>1</sup>		- <b>G</b> = Gray	<b>24</b> = 24 VDC	
<b>ELF650PD</b> = All polycarbonate NEMA 4X and NSF Certified with double head <sup>1</sup>			<b>120</b> = 120 VDC/VAC	

**Example: ELF650/LD9-M12**

<sup>1</sup> Choose from lamp selection chart

## SP Series

NEMA-4X, Severe-performance industrial battery unit for indoor or outdoor applications



### Housing

- Compact gray fiberglass housing with captive screws
- NEMA-4X rated
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

### Mounting

- Simple and easy to install on walls, poles, columns, struts also on vertical
- Pole or column installation bracket sold separately (order catalog number: PMK1-L)
- ½ NPT conduit entry on top or side

### Performance

- High temperature Lead-Calcium battery operates 32°F to 122°F (0°C to 50°C) optional cold-weather -40°F to 122°F (-40°C to 50°C)

- 6W, 10W and 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR Halogen
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

### Electronics

- Infra-red remote control included in all models: allows testing the equipment without the need to climb a ladder. Distance range up to 30 ft. Universal, one remote control may test all the units on the job
- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lock-out
- Fused output circuit
- Standard Improved Diagnostics (non-audible)
- Optional: Nexus® monitoring system
- 120/277 60Hz

### Approvals

- UL 924 Listed
- BC – California Energy Commission Title 20

**Warranty** (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: [www.lightalarms.com](http://www.lightalarms.com)



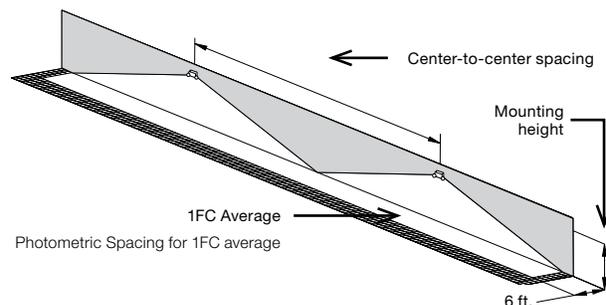
### Photometry performance

Capable of being installed indoors or outdoors, the SP Series LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the required illumination levels need for the application, choose between three level of lumen output using a 6W, 10W or 15W head.

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L6	6W	565	37W PAR36, MR16 Halogen (700 Lumens)
L10	10W	1000	50W PAR36, MR16 Halogen (950 Lumens)
L15	15W	1300	50W MR16-IR Halogen (1550 Lumens)

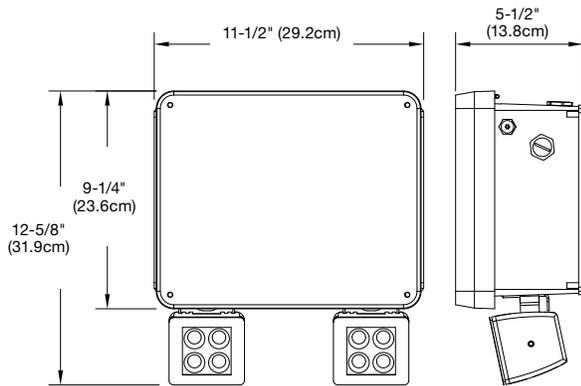
### Spacing center-to-center (feet)

Mounting height	Lamp L6/6W, 565Lm	Lamp L10/10W, 1000Lm	Lamp L15/15W, 1300Lm
10 ft	80'	110'	125'
15 ft	75'	110'	130'
20 ft	68'	110'	130'
25 ft	60'	105'	120'
30 ft	50'	95'	110'
35 ft	-	85'	105'
40 ft	-	80'	95'

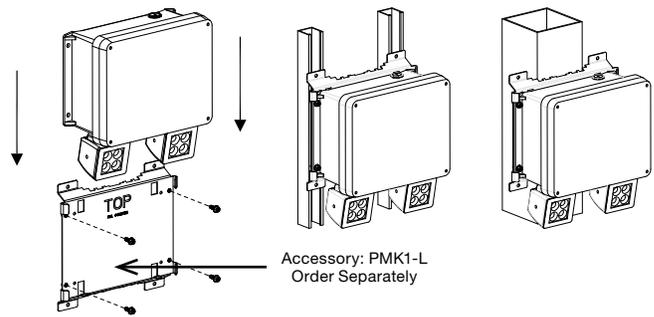


Industrial environment: Wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path. Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

**Dimensions** (Dimensions are approximate and subject to change)



**PMK1-L Universal Mounting Bracket Installation**



**Power consumption chart**

Model #	Ac Input	Input Current	Maximum	Stand-by
			Input Power	Input Power
HPM	120VAC	0.20A	25W	0.74W
	277VAC	0.10A		
HPM-CW4	120VAC	0.40A	50W	Note*
	277VAC	0.25A	60W	

Stand-by power consumption of the battery charger: 0.74W

**Remote test control (included with unit)**



Standard infrared remote test control included in all models: allow to test the equipment without need to climb a ladder. Functional up to 30 ft distance. Universal, one Remote Test Control may test all units on the job

**Unit rating chart**

Series	DC Specs (87.5% battery capacity in watts)			
	1 1/2 Hrs	2 Hrs	3 Hrs	4 Hrs
SP12G3	30	20	15	10
SP12G6	60	40	30	20

Note: the cold-weather option is only rated for 90 minutes

**Ordering format**

Series	Battery and capacity	Number of heads	LED heads <sup>1</sup>	Diagnostics	Option	Approval
<b>SP12</b>	<b>High Temperature Lead-Calcium</b>	<b>0=</b> No head	<b>L6=</b> 12-24V, 6W (565 Lumens)	<b>Standard Diagnostic</b>	<b>CW4=</b> Cold-weather -40°F (-40°C)	<b>-CEC=</b> CEC Title 20 for California <sup>1</sup>
<b>SP12</b>	<b>G3=</b> 12V-30W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)	<b>1=</b> One head	<b>L10=</b> 12-24V, 10W (1000 Lumens)	<b>IDNA=</b> Improved Diagnostics, non-audible	<b>T3=</b> Time delay 15 minutes	
<b>SP12</b>	<b>G6=</b> 12V-60W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)	<b>2=</b> Two heads	<b>L15=</b> 12-24V, 15W (1300 Lumens)	<b>Optional Diagnostic</b> <b>ID=</b> Improved Diagnostics, audible <b>NEX=</b> Nexus® Wired (contact your sales representative) <b>NEXRF=</b> Nexus® Wireless (contact your sales representative)	<b>RFI=</b> Radio frequency interference filter	

**Example: SP12G32L10ID-CEC**

<sup>1</sup> Must choose ID, IDNA or NEXRF

## SPRL Series Remote Fixture

NEMA-4X, Severe-performance remote for indoor or outdoor applications



### Housing

- Lightweight polycarbonate gray housing with captive screws
- NEMA-4X rated
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

### Mounting

- Simple and easy to install on walls, poles, columns, struts also on vertical
- Pole or column installation bracket sold separately (order catalog number: PMK1-E)
- ½ NPT conduit entry on top or side

### Performance

- 6W, 10W and 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR halogen
- Innovative head design: four-LED and dual-driver provide illumination even in case of unexpected component failure

### Approvals

- UL924 Listed
- Can be installed in wide temperature range: -40°F to 131°F (-40°C to 55°C)

**Warranty** (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on [page 182](#) or online at: [www.lightalarms.com](http://www.lightalarms.com)



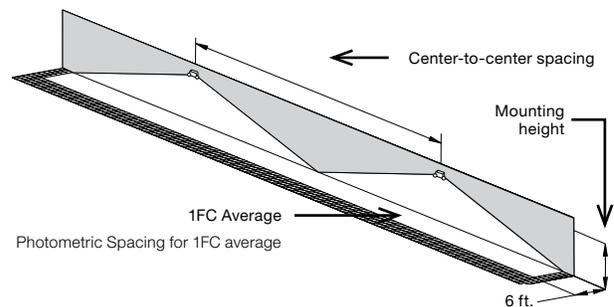
### Photometry performance

Capable of being installed indoors or outdoors, the SPRL Series LED emergency lights deliver a stable and consistent illumination on the path of egress for a wide range of mounting heights. Depending on the required illumination levels need for the application, choose between three level of lumen output using a 6W, 10W or 15W head.

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L6	6W	565	37W PAR36, MR16 Halogen (700 Lumens)
L10	10W	1000	50W PAR36, MR16 Halogen (950 Lumens)
L15	15W	1300	50W MR16-IR Halogen (1550 Lumens)

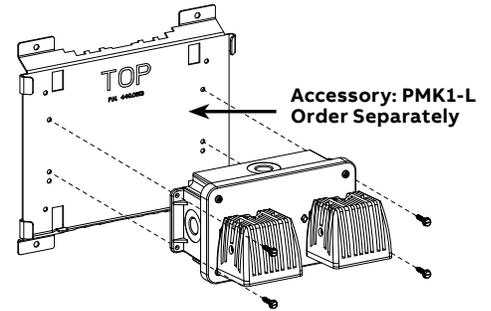
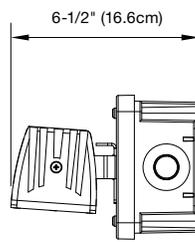
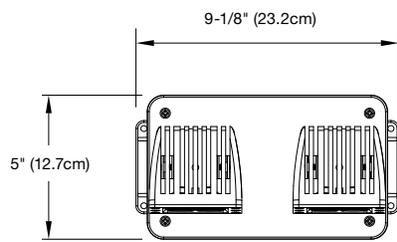
### Spacing center-to-center (feet)

Mounting height	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



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

**Dimensions** (Dimensions are approximate and subject to change)



**Warning:** The mounting column must be anchored at both ends: floor and ceiling.

**Ordering format**

Series	Number of heads	LED head
<b>SPRL</b> = Severe performance remote lightweight	<b>Blank</b> = Single head <b>D</b> = Double head	<b>L6</b> = 12-24V – 6W (565 Lumens) <b>L10</b> = 12-24V – 10W (1000 Lumens) <b>L15</b> = 12-24V – 15W (1300 Lumens)

**Example: SPRLDL6**

## SPH Series

Class I Division 2, Groups A, B, C and D, Class II Division 2 Groups F and G & Class III. NEMA-4X Severe-performance unit equipment for hazardous, damp and wet locations.



### Housing

- Class I, Div. 2, Groups A, B, C & D, Class II Div. 2, Groups F & G, Class III
- Fiberglass light-grey housing with captive screws; outside hardware in stainless steel
- NEMA-4X protection grade against liquids and dust
- Compact size: 0.46 cubic feet

### Mounting

- Simple and easy to install on walls, columns and struts
- For installation on columns use mounting bracket catalog number: PMK1-L (order separately)
- May be wired from top or side using conduit (½" NPT)

### Performance

- Wide ambient temperature range \*32°F to 122°F (0°C-50°C) high temperature Lead-Calcium battery. Optional cold-weather -40°F (-40°C) (available with 12V battery models only)
- High-efficacy LED emergency lamps outperform traditional 50W halogen lamps
- Innovative lamp design: four-LED and dual-driver provide illumination even in case of unexpected component failure

### Testing option

- Infra-red remote control included in all models: allows testing the equipment without the need to climb a ladder. Distance range up to 30 ft. Universal, one Remote Control may test all the units on the job
- Non-Audible Improved Diagnostics and Self-test is standard in all models
- Optional: Nexus® monitoring system available

### Approvals

- Listed UL924 and UL844 for hazardous locations: Class I Division 2, Groups A, B, C and D; Class II Division 2 Groups F & G and Class III; Rated NEMA-4X severe-performance for hazardous, damp and wet location.
- BC – California Energy Commission Title 20

**Warranty** (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on **page 182** or online at: [www.lightalarms.com](http://www.lightalarms.com)



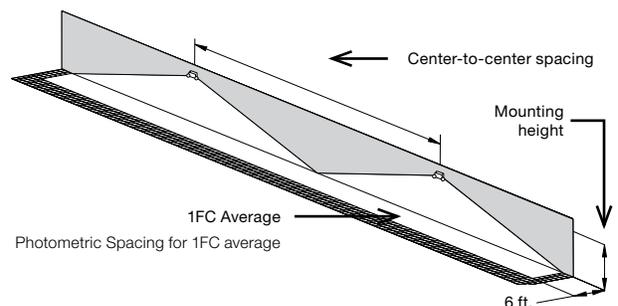
### Photometry performance

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

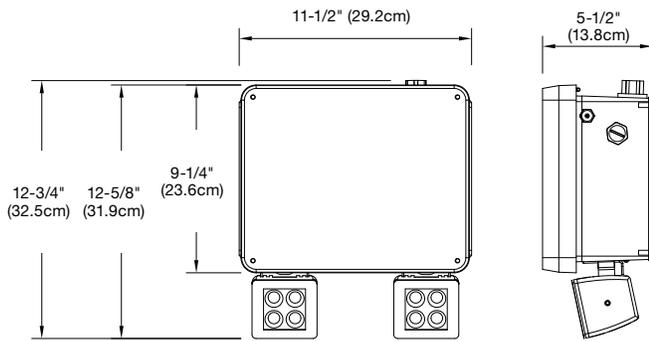
LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L15	15W	1300	50W MR16-IR Halogen

### Spacing center-to-center (feet)

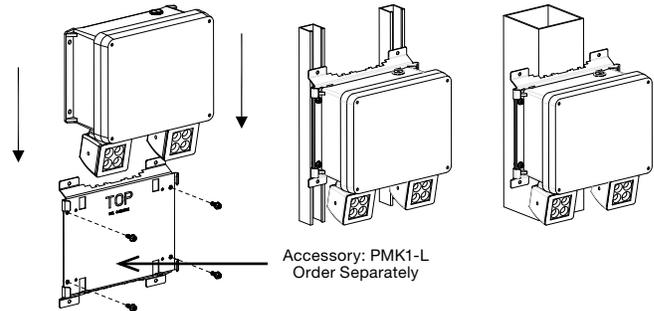
Mounting height	Lamp L6/6W, 565Lm	Lamp L10/10W, 1000Lm	Lamp L15/15W, 1300Lm
10 ft	80'	110'	140'
15 ft	70'	105'	135'
20 ft	60'	100'	130'
25 ft	50'	95'	120'
30 ft	45'	85'	110'
35 ft	-	85'	105'
40 ft	-	80'	95'



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



**PMK1-L Universal Mounting Bracket Installation**



**Warning:** The mounting column must be anchored at both ends: floor and ceiling.

**Power consumption chart**

Model #	Ac Input	Input Current	Maximum	
			Inpur Power	Stand-by Input Power
HPHM	120VAC 277VAC	0.20A 0.10A	30W	0.74W
HPHM-CW4	120VAC 277VAC	0.40A 0.25A	50W 60W	Note*

**Stand-by power consumption of the battery charger: 0.74W**

**Unit rating chart**

Series	Battery capacity in watts			
	90 minutes	2 Hrs	3 Hrs	4 Hrs
SPH12G3	30	20	15	10
SPH12G6	60	40	30	20

**Note: the cold-weather option is only rated for 90 minutes**

**Ordering format**

Series	Battery and Capacity	Number of heads	LED heads	Diagnostics	Option	Approval
SPH12	<b>High Temperature Lead-Calcium</b> G3= 12V-30W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)	0= No head 1= One head 2= Two heads	<b>L15=</b> 12-24V, 15W (1300 Lumens)	<b>Standard Diagnostic</b> IDNA= Improved Diagnostics, non-audible <sup>1</sup> <b>Optional Diagnostic</b> NID= No Improved Diagnostics, audible <sup>1</sup> ID= Improved Diagnostics, audible <sup>1</sup>	<b>CW4=</b> Cold-weather -40°F (-40°C) <sup>1</sup> <b>T3=</b> Time delay 15 minutes <b>RFI=</b> Radio frequency interference filter	<b>-CEC=</b> CEC Title 20 for California <sup>2</sup>
	<b>SPH12</b> G6= 12V-60W, High temperature Lead-Calcium battery, Temperature= 32°F to 122°F (0...50°C)			<b>NEX=</b> Nexus® Wired (contact your sales representative) <sup>1</sup> <b>NEXRF=</b> Nexus® Wireless (contact your sales representative) <sup>1</sup>		

**Classification for hazardous locations**

Lamp rating	Temperature code	Replacement part number
L15 (15W)	Class I Division 2 Groups A, B, C and D	T3A
	Class II Division 2 Groups F and G; Class III	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

**Remote test control (included with unit)**



Standard infrared remote test control included in all models: allow to test the equipment without need to climb a ladder. Functional up to 30 ft distance. Universal, one Remote Test Control may test all units on the job.

**Example: SPH12G302L15ID-CEC**

<sup>1</sup> Minimum load required: 20% of load capacity

<sup>2</sup> Must choose ID, IDNA or NEXRF

## SPHRL Remote Fixture Series

Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G and Class III, NEMA-4X, damp & wet locations



### Housing

- Light weight polycarbonate gray housing and die-cast fully adjustable heads Class I, Div. 2, Groups A, B, C & D, Class II Div. 2, Groups F & G, Class III
- NEMA-4X protection grade
- All external fasteners and hardware are constructed of stainless steel
- Die-cast aluminum LED heads

### Mounting

- Simple and easy to install on walls, poles, columns, struts also on vertical pole or column installation bracket sold separately (order catalog number: PMK1-L)
- ½ NPT conduit entry on top or side

### Performance

- 15W high efficacy LED emergency heads outperform traditional 50W MR16-IR Halogen
- Innovative head design: four-LED and dual- driver provide illumination even in case of unexpected component failure

### Approvals

- UL924 Listed
- Can be installed in wide temperature range: -40°F to 131°F (-40°C to 55°C)
- Listed to the UL844 Standard for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G and Class III

### Warranty (subject to proper installation and maintenance)

Unit: five-year limited warranty

Detailed warranty terms located on **page 182** or online at: [www.lightalarms.com](http://www.lightalarms.com)



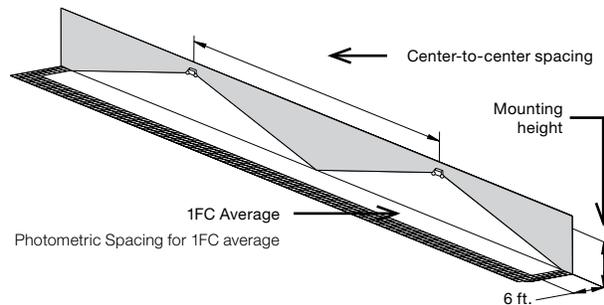
### Photometry performance

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

LED Head	Power	Total lumens	Outperform spacing of MR16 halogen lamp types
L15	15W	1300	50W MR16-IR Halogen

### Spacing center-to-center (feet)

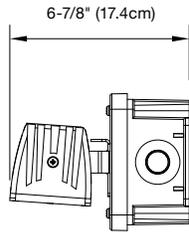
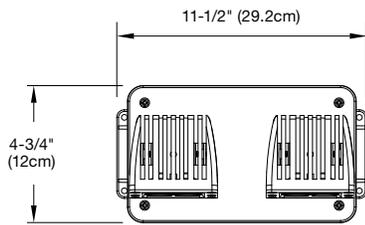
Mounting height	Lamp L15/15W, 1300Lm
10 ft	140'
15 ft	135'
20 ft	130'
25 ft	120'



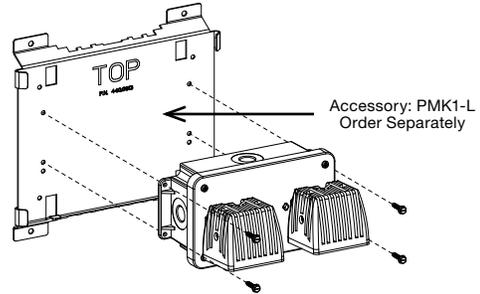
Industrial environment: Wall mounted equipment, reflectances: 10/10/10; 6-ft wide illumination path.

Illumination as per NFPA101; Average: 1fc; Min: 0.1fc; Max/min < 40:1

**Dimensions** (Dimensions are approximate and subject to change)



**PMK1-L Universal Mounting Bracket Installation**



**Warning:** The mounting column must be anchored at both ends: floor and ceiling.

**Classification for hazardous locations**

Lamp suffix	Voltage	Power	Lumen flux	Ambient	Classification	Temperature code
L15	12-24VDC	15W	1,300 Lm	131°F (55°C)	Class I Division 2 Groups A, B, C and D	T3C
					Class II Division 2 Groups F and G; Class III	T5

**Ordering format**

Series	Number of heads	LED head
<b>SPRHRL</b> = Severe performance hazardous location remote head	<b>Blank</b> = Single head <b>D</b> = Double head	<b>L15</b> = 12-24V – 15W (1300 Lumens)

**Example: SPHRLDL15**

## Remote Fixture Saf-T-Ray™ Series

Wall mount remote fixture for damp and wet locations



### Description

- Indoor or Outdoor use
- Die-Cast aluminum construction
- Fully gasketed cover
- Impact- and tamper-resistant polycarbonate lens

### Mounting

- Surface Wall Mount
- Universal J-Box mounting

### Lamp type

Choice of MR16 LED lamp voltages and wattages

### Approval

- UL 924 Listed
- NEMA-3
- Damp and wet location listed 50°F to 104°F (10°C to 40°C)

**Warranty** (subject to proper installation and maintenance)

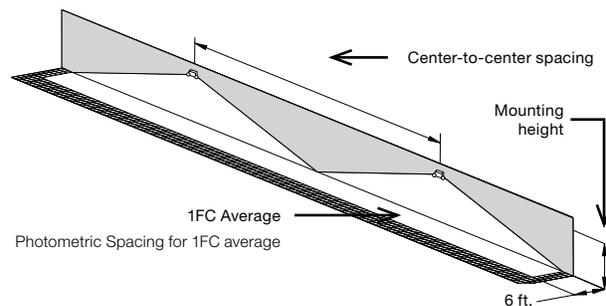
Unit: three-year full warranty

Detailed warranty terms located [online at: www.lightalarms.com](http://www.lightalarms.com)

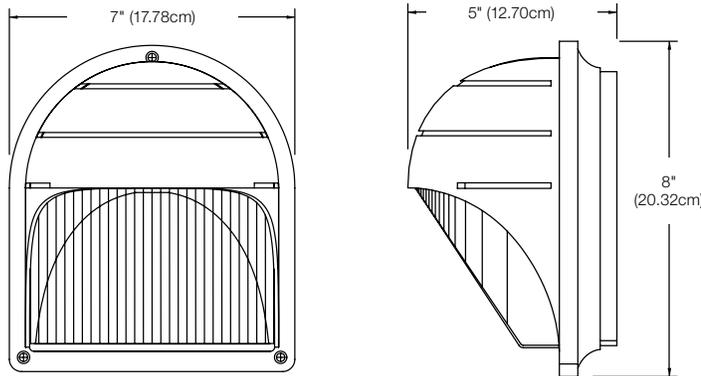
**NEMA-3R**

### Photometric performance

Lamp	Spacing center-to-center (feet) 7 feet mounting height
LD7 ( clear lens)	28'
LD7 (frosted lens)	16'



**Dimensions** (Dimensions are approximate and subject to change)



**Lamp selection chart – MR16 LED lamps**

Lamp suffix	Voltage	Wattage	Lumens	Replacement #
LD1	6	4	130	580.0097-L
LD7	12	4	170	580.0093-L
LD9	12	5	340	580.0098-L
LD10	12	6	540	580.0106-L
LD13	24	4	200	580.0104-L
LD25	120	4	200	580.0113-L

**Ordering format**

Series	Lamp suffix	Color	Voltage	Options
<b>SAF-2</b> = Double lamp remote fixture	/ _____ <sup>1</sup>	<b>-M</b> = Mist white	<b>6</b> = 6 VDC	<b>-VR</b> = Vandal resistant screws
		<b>-B</b> = Black	<b>12</b> = 12 VDC	<b>-C</b> = Clear lens
		<b>-DG</b> = Dark Gray	<b>24</b> = 24 VDC	
		<b>-DB</b> = Dark Bronze	<b>120</b> = 120 VAC/VDC	

**Example: SAF-2/LD1-M6**

<sup>1</sup>Choose from lamp selection chart

## Remote Fixture Decorative™ Series

Contemporary and enduring style



### Description

- Indoor use
- Available as a single, double or triple MR16 LED size lighting head
- Die cast aluminum construction

### Finish

Powder-coated off-white, black or brushed nickel

### Lamp type

Choice of MR16 LED lamp wattages

### Mounting

- Surface Mount
- Must order appropriate housing with decorative head selection for installation into new construction ceiling (LU-GRHR03) or non-insulated ceiling (LU-GRHR05) GU10 or Insulated ceiling (LU-GRHR06)

### Approval

UL 924 Listed

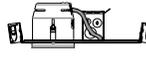
### Warranty (subject to proper installation and maintenance)

Unit: three-year full warranty

Detailed warranty terms located [online at: www.lightalarms.com](http://www.lightalarms.com)

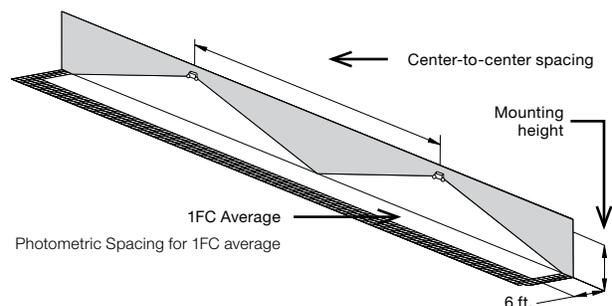


### Series

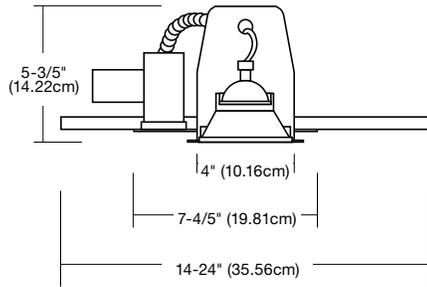
	<b>RSTH18R:</b> concave (egress/ regress)	<b>Description:</b> Decorative lighting head <b>Dimensions:</b> 4.0" diameter base <b>Color Suffix:</b> -WH = White or -BN = Brushed Nickel, -BK= Black
	<b>RSTH19:</b> pop-out	<b>Description:</b> Decorative lighting head <b>Dimensions:</b> 4.0" diameter base <b>Color Suffix:</b> -WH = White, -BK= Black
	<b>LU-GRHR03</b>	<b>Housing Enclosure Description:</b> New construction housing <b>Dimensions:</b> 5.6" x 14.24"
	<b>LU-GRHR05</b>	<b>Housing Enclosure Description:</b> New construction housing New construction housing for GU10 (MR16 120V)
	<b>LU-GRHR06</b>	<b>Housing Enclosure Description:</b> Insulated ceilings housing <b>Dimensions:</b> 7.25" x 14.24"

### Photometric performance

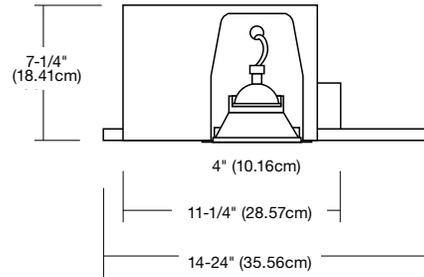
Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	43'	36'
LD7	55'	43'
LD9	71'	56'
LD10	100'	85'
LD13	56'	44'
LD14	100'	85'
LD26	43'	39'



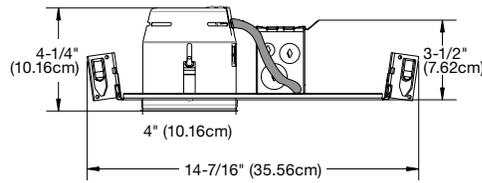
**Dimensions** (Dimensions are approximate and subject to change)



**LU-GRHR03**



**LU-GRHR06**



**LU-GRHR05**

**Lamp selection chart – MR16 LED lamps**

Lamp suffix	Voltage	Wattage	Lumens	Replacement #
LD1	6	4	130	580.0097-L
LD7	12	4	170	580.0093-L
LD9	12	5	340	580.0098-L
LD10	12	6	540	580.0106-L
LD13	24	4	200	580.0104-L
LD14	24	6	590	580.0100-L
LD26	120	4	200	580.0113-L

**MR16 LED lamps compatibility chart**

Head style	6V-4W	12V-4W	24V-4W	12V-5W	12V-6W	120V 4W	24V-6W
RSTH18R	X	X	X	X	X	X	X
RSTH19	X	X	X	X	X	X	X

**Ordering format**

Series	Lamp suffix	Color	Voltage
RSTH18R	/_____ <sup>1</sup>	<b>WH</b> = White	<b>6</b> = 6 VDC
RSTH19	/_____ <sup>1</sup>	<b>-BK</b> = Black	<b>12</b> = 12 VDC
		<b>-BN</b> = Brushed nickel (available with RSTH18R only)	<b>24</b> = 24 VDC
			<b>120</b> = 120 VAC/VDC

**Example: RSTH18R/LD9-WH and LU-GRHR03**

With Housing Enclosure Example: LU-GRHR06 (for Insulated Ceiling installation)

<sup>1</sup> Choose from lamp selection chart

## Remote Head & Unit Head DR Series

### Metal MR16 lamp head



#### Description

- Indoor use
- Powder-coated die cast aluminum construction

#### Finish

Mist-white or black

#### Lamp type

Choice of MR16 LED lamp voltages and wattages

#### Mounting

- Surface mount
- Universal J-Box mounting

#### Warranty (subject to proper installation and maintenance)

Unit: three-year full warranty

Detailed warranty terms located on [online at: www.lightalarms.com](http://www.lightalarms.com)



#### Accessories (Order as a separate item)

Description	Product code
Wire Guard for DR1130, DR2130	WG8-L
Wire Guard for DR3130	WG2-L

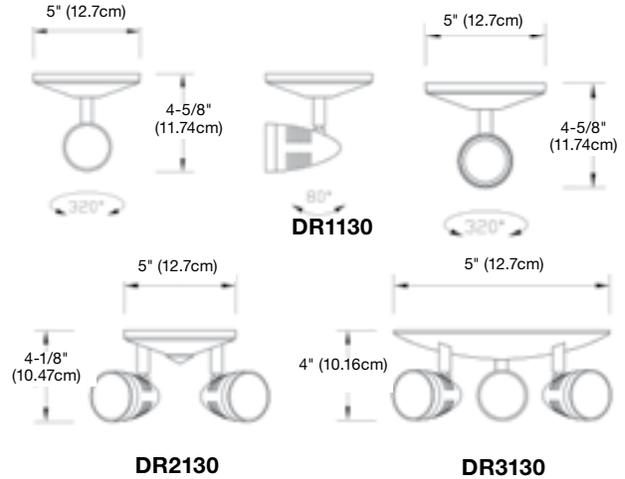
#### Ordering format

Series	Lamp suffix	Color
DR1130= Single head		-WH= White
DR2130= Double head	/_____ <sup>1</sup>	-BK= Black
DR3130= Triple head		

**Example: DR1130/LD12-WH6**

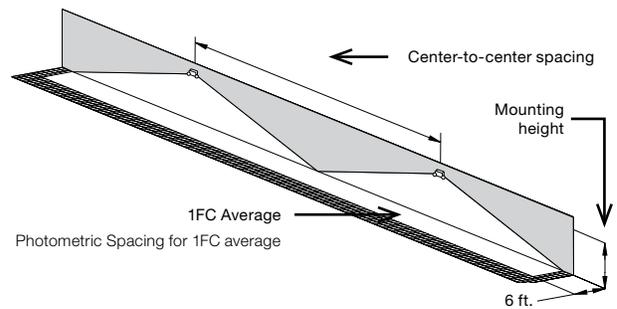
<sup>1</sup>Choose from lamp selection chart

#### Dimensions (Dimensions are approximate and subject to change)



#### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	43'	36'
LD7	55'	43'
LD9	71'	56'
LD10	100'	85'
LD13	56'	44'
LD14	100'	85'
LD25	43'	39'



#### Lamp selection chart – MR16 LED lamps

Lamp suffix	Voltage	Wattage	Lumens	Replacement #
LD1	6	4	130	580.0097-L
LD7	12	4	170	580.0093-L
LD9	12	5	340	580.0104-L
LD10	12	6	540	580.0106-L
LD13	24	4	200	580.0098-L
LD14	24	4	590	580.0100-L
LD25	120	6	200	580.0010-L

## Remote Head & Unit Head ELF3 Series

Thermoplastic MR16 lamp head



### Description

- Indoor use
- Available as a single, double or triple head
- Thermoplastic construction
- Snap-out lens for easy lamp replacement

### Finish

Mist-white or black

### Lamp type

Choice of MR16 LED lamp voltages and wattages

### Mounting

- Surface Mount
- Universal J-Box mounting

### Approval

UL 924 Listed

**Warranty** (subject to proper installation and maintenance)

Unit: three-year full warranty

Detailed warranty terms located [online at: www.lightalarms.com](http://www.lightalarms.com)



### Lamp selection chart – MR16 LED lamps

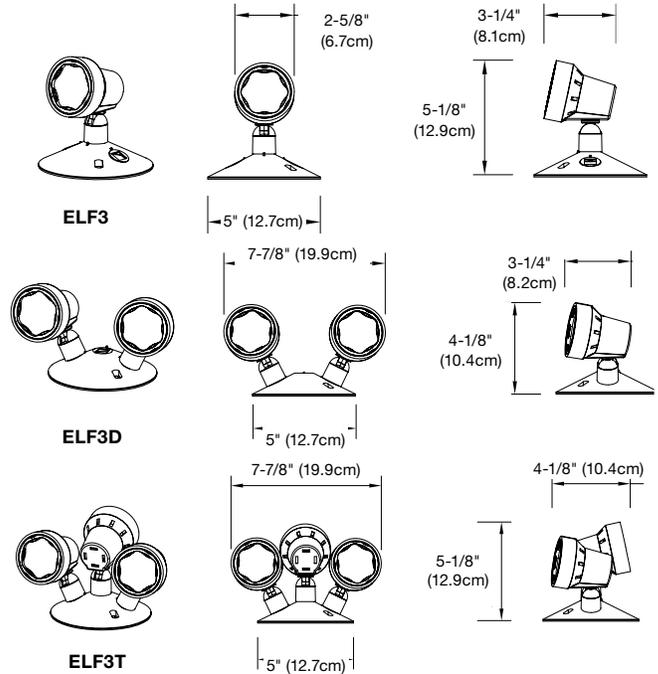
Lamp suffix	Voltage	Wattage	Lumens	Replacement #
LD1	6	4	130	580.0097-L
LD7	12	4	170	580.0093-L
LD9	12	5	340	580.0104-L
LD10	12	6	540	580.0106-L
LD13	24	4	200	580.0098-L
LD14	24	6	590	580.0100-L

### Ordering format

Series	# of heads	Lamp suffix	Color	Voltage
ELF3= MR16 Par18 head	<b>Blank</b> = Single head	/_____ <sup>1</sup>	<b>-B</b> = Black	<b>6</b> = 6 VDC
<b>Example: ELF3/LD1-B6</b>	<b>D</b> = Double heads		<b>-M</b> = Mist white	<b>12</b> = 12 VDC
	<b>T</b> = Triple heads			<b>24</b> = 24 VDC

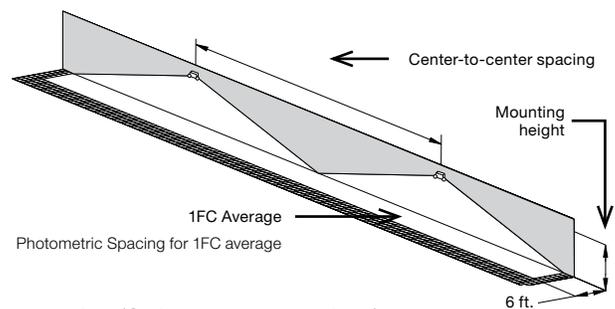
<sup>1</sup>Choose from lamp selection chart

### Dimensions (Dimensions are approximate and subject to change)



### Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
LD1	43'	36'
LD7	55'	43'
LD9	71'	56'
LD10	100'	85'
LD13	56'	44'
LD14	100'	85'



### Accessories (Order as a separate item)

Description	Product code
Wire Guard	WG8-L

## Mini Inverter Series

Interruptible unit equipment standard with non-audible improved self-diagnostics circuitry



### Construction

- 14-gauge steel
- White semi-gloss powder-coat paint finish

### Mounting

- Surface mount
- Optional recessed T-bar (125W unit only)

### Lamp types operated

- LED
- Incandescent
- Fluorescent
- Operates switched, normally-on or normally-off fixture types, incandescent
- Incandescent, LED, fluorescent lamps and ballast combinations, including triac dimmable ballasts (consult factory if DALI dimming)

### Load capacity

- 125W, 250W or 400W
- Line voltage allows for remote mounting of the emergency fixtures at distances up to 1000 feet
- May accept load to its full capacity when load feature power factor of 0.9 for 250W model and 0.8 for 125 and 400W models

### Electronics

- High-efficiency pure sine wave inverter at 250W capacity or higher
- Temperature compensated charger
- Replaceable output fuse protection
- Low battery voltage disconnect
- Unit comes standard with electronic lockout and brownout circuits

### Controls

- Standard with a **non-audible Improved diagnostic & self test**/charger is fully self-contained, fully automatic microcontrollerbased system
- Optional **audible auto diagnostic** available
- Optional **Non-Improved Diagnostics Diagnostics** available
- **Non-Improved Diagnostics** option for applications with emergency power controls
- Standard lighting control override for 0-10V dimming systems

### Nexus® Option

- Units equipped with Nexus® self-testing monitoring system circuitry shall selftest, in accordance with NFPA101, Life Safety Code minimum 30 seconds every 30 days, 30 minutes every six months and 90 minutes annually as well as keep a history of all testing logs, plus feature a real-time diagnoses, as well as, be able to locate exact fixture location while notifying service personnel to the status of the fixture via email notification. Nexus® system interface with an improved minimum load lost detection of 10%

### Sealed maintenance-free battery

- 12V oversized valve regulated lead-calcium (VRLA) battery
- Provides 90 minutes of emergency operation

### Power requirements

- Choice of voltage 120V in/120V out or 277V in/277V out operation, 60Hz

### Approvals

- UL 924 Standard
- Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements
- BC – California Energy Commission Title 20

### Warranty (subject to proper installation and maintenance)

- Battery has a 3-year full, plus 7-year pro-rata warranty
- Unit has a three-year warranty

Detailed warranty terms located [online at: www.lightalarms.com](http://www.lightalarms.com)



## Replacement battery

Series	Part number
LMIU-125	860.0024-L
LMIU-250	2X 860.0024-L
LMIU-400	2X 860.0043-L

## Specifications

Transfer time	Voltage regulation on emergency	Frequency regulation on emergency	Load power factor range	Operating temperature
Less than 1 second	+/- 3%	60 Hz +/- 1%	250W model: 0.9 leading to 0.9 lagging	68°F to 86°F (20° to 30°C)
-	-	-	125, & 400 models: 0.8 leading to 0.8 lagging	-

## Electrical characteristics and dimensions

Power rating	Sine wave	Installation	Cabinet dimensions			Number of battery	Weight	Weight w/o battery
			W"	H"	D"		120V & 277V	120V & 277V
125W	Modified	T-Bar	24"	6.5"	8"	1	43 lbs	20 lbs
125W	Modified	Wall	16.5"	12.2"	7.3"	1	41 lbs	18.5 lbs
250W	Pure	Wall	27"	12.2"	7.3"	2	76 lbs	30 lbs
400W	Pure	Wall	24"	20"	10.5"	2	128 lbs	50 lbs

Note: For wiring diagram, please refer to instruction sheets.

## Power consumption and unit rating

Model number	Ac specs	AC power stand by	90 minutes	Emergency power available for load			
				2H	3H	4H	
LMIU-125	120 / 277VAC	1.15 / 0.50 Amps	1.44W	125W	83W	62W	47W
LMIU-250	120 / 277VAC	2.28 / 0.99 Amps	2.26W	250W	167W	125W	94W
LMIU-400	120 / 277VAC	3.73 / 1.62 Amps	3.21W	400W	300W	200W	150W

## Ordering format

Series	Capacity	Voltage in/out	Diagnostic feature	Options	Approval
<b>LMIU</b>	<b>-125</b> = 125W <b>-250</b> = 250W <b>-400</b> = 400W	<b>Blank</b> = 120/120VAC or 277/277VAC	<b>Blank</b> = Includes improved self-diagnostics (non-audible) <sup>1</sup> <b>-ID</b> = Improved self-diagnostics (audible) <sup>1</sup> <b>-NID</b> = No self-test/Self-diagnostic <b>-NEX</b> = Nexus® wired <b>-NEXRF</b> = Nexus® wireless	<b>-D3</b> = Time delay (15 minutes) <b>-SAC</b> = Service alarm contact <sup>2</sup> <b>-T</b> = Recessed T-Bar mounting (125W unit only)	<b>-CEC</b> = CEC Title 20 for California

### Example: LMIU-400-CEC

<sup>1</sup> Minimum load required: 10% of unit capacity

<sup>2</sup> Service alarm contact (SAC) shall provide a 24V signal, the charger board will indicate a fault by choosing a contact. Not available with 720 capacity







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