

# Battery Units

## in a few words...



### **EMERGENCY ILLUMINATION: OVERVIEW OF EQUIPMENT AVAILABLE**

**Emergency Lighting, as part of the Life Safety Equipment, is one of the key elements to ensure public safety within buildings. In the event of failure of the normal power supply, self-contained units automatically provide the illumination required to evacuate the building in safe conditions.**

#### **STANDARDS AND CODES**

Considering its importance, installation of such equipment as well as the level and duration of the emergency lighting required in a building are established by national standards: the National Building Code of Canada (CNBC-2005), the Canadian Electrical Code (CEC), and the National Fire Code of Canada (NFC-2005). Concerning the equipment, performance is established by the Canadian Standards Association (CSA), for example: C141.1, C860, etc.

#### **TYPES OF EQUIPMENT: SELF-CONTAINED EMERGENCY LIGHTING**

Emergency lighting equipment is divided in two main categories: self-contained emergency lighting equipment, also referred to as "unit equipment for emergency lighting", and central emergency power systems (separate emergency electrical power supply).

#### **SELF-CONTAINED (OR SELF-POWERED) EQUIPMENT**



The most common self-contained unit consists of 6V lead battery and two lamp heads, also referred to as emergency lights, each with a 6V, 9W incandescent lamp. Lamps are normally off; the storage battery has sufficient capacity to actuate and maintain the emergency lighting during at least 30 minutes in the event of a power failure. In some applications described in the National Building Code of Canada, the minimum emergency lighting period can reach 60 minutes, even 120 minutes. This will require battery units of a greater capacity. Once normal AC power supply is restored, heads turn off (if they were still on), the fixture recharges the batteries to full capacity within 24 hours, then returns to the stand-by mode.

#### **BATTERY UNITS AND REMOTE HEADS**

Another self-contained type of equipment exists, it contains batteries which will supply power to several remote emergency lights, of different wattages (12W, 20W, 50W, etc.). In this case, remote emergency lights (also referred to as heads or remote heads) are installed in rooms and corridors, connected by wiring installed inside the walls. Some 6V self-contained fixtures can assume a total emergency lighting load up to 150W – 180W. At this level, the battery current (25A to 30A) begins to generate significant losses in the external wiring. For this reason, there are battery units of higher voltages, 12V and 24V, which can respectively supply power to remote heads totalling up to 360W and 720W.

# Battery Units

## in a few words...



### CENTRAL SYSTEMS

Are there higher wattage capacity types of equipment ?

Yes, but in this case the battery unit is replaced with another type of equipment: the Central System. In the event of a utility power failure, Central Systems continue to supply power to the emergency lighting equipment as well as other critical loads. They are classified under a special category: Emergency Power Systems. To summarize, there are two types of Central Systems: the Direct Current Central System (DC System) and the Alternating Current Central System (AC inverter, UPS or Uninterruptible Power Supply/System). The electric power supplied by these equipments can vary from a few KVAs to several hundred KVAs.

### OTHER EQUIPMENT

Besides self-contained inverters, another type of inverter is available in the market, the AC/DC inverter. Instead of batteries, these inverters use a DC Input (6V, 12V, etc.) and power is supplied from a remote battery unit.

### EMERGENCY LIGHTING ENCLOSURES

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

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

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

### COMMERCIAL AND INSTITUTIONAL ENVIRONMENTS

Commercial spaces (stores, restaurants, movie theatres, hotels etc.) as well as institutions are generally air conditioned: the equipment operates in normal temperature and humidity conditions. Generally, the main selection criteria is total lighting costs, which include equipment and installation. The most economical design for self-contained units uses sheet metal housings of a neutral color: white or beige. For the most part, Exit signs are housed in a rectangular box fabricated of steel (sheet metal) or extruded aluminum, and illuminated from a light source contained within the assembly (back-lit). Some molded plastic housings also exist (less expensive material, but also less rigid than metal) – mostly used for small battery units (lower wattages) and EXIT signs in anglophone provinces.

Even if aesthetics is a secondary criteria, manufacturers continue to develop products which offer a more contemporary look.

### AESTHETICS AND ARCHITECTURE

Fortunately, price isn't everything in the buying decision process. Some hotel chains, high-end stores and corporate headquarters are excellent examples.



In these situations, the architect and the lighting designer have a great influence in specifying emergency lighting fixtures. The question becomes – what will the architect prefer, a more decorative or a more unobtrusive, discrete look ?

Battery units are becoming increasingly discrete. The specifier can opt for a higher capacity unit (ie: 24V, 720W or a central DC System) installed in a hidden location, and supplying power to remote heads distributed throughout the building. Another option would be to install recessed self-contained units, concealed in the ceiling (T-bar), each with two lamp heads and additional capacity for remote heads. There are also single-lamp battery units (MR16 or PAR36), recessed in the ceiling. As for the remote heads, they are generally fabricated of forged aluminum and contain halogen MR16 lamps. It is also possible to conceal the battery units as well as the lamp heads entirely. For example, both the lamp heads and the housing of the PHANTOM self-contained unit are concealed in the wall or ceiling cavity, behind its door, which rotates 180°. Upon a power failure, an electromechanical device opens the door, and exposes the emergency lamp heads to illuminate the path to safety. At the end of the power failure, this same device retracts the heads and closes the door.

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

## **INDUSTRIAL ENVIRONMENT**

The industrial environment is the most severe in terms of housing and exit sign construction. It is defined by a number of parameters specific to various technical processes within the industry: temperature range, degree of humidity, degree of protection against water and dust, resistance to corrosive chemicals, presence of flammable gases and vapors or combustible particles, etc. An important performance factor is the degree of protection against solid particles (dust, etc.) and liquids. This rating is generally defined and measured as established by the American standard NEMA 250-2003 from the National Electrical Manufacturers Association, or, alternately, the European IP (ingress protection) code of the International Electrotechnical Commission (IEC 60529 standard). In Canada, there are standards issued by EEMAC (Electrical Equipment Manufacturers Association of Canada), which also plays an active role in the harmonization of existing standards. To accomplish the required degree of protection and resistance to corrosive agents, emergency lighting fixtures are designed/fabricated with gasketed, rugged, polycarbonate or fiberglass housings.

A special category exists covering hazardous areas, defined by technological processes generating (or susceptible to generate) in the atmosphere flammable gases, vapors, flammable liquids or combustible dust particles in explosive concentrations. Hydrogen or acetylene plants, gasoline and natural gas refineries, coal or magnesium mines, flour mills, textile factories, are some examples. For more details on definitions and classifications of hazardous areas, consult the Canadian Electrical Code (CSA C22. 1-06).

Considering the risks of explosion or fire, all equipment dedicated to hazardous areas must meet, in addition to standards specific to emergency lighting, special standards such as: CSA C22.2 No. 30-M1986, No. 137-M1981, No. 213-M1987, etc. Based on each respective classification (Class, Division, Group), enclosures and remote heads for hazardous areas are fabricated of materials which must meet stringent requirements (pure forged aluminum, fiberglass, etc.) and may require specific components, such as seals, valves, gasketing, etc. In view of all these additional specific characteristics, it can be expected that emergency lighting equipment approved for hazardous areas will cost more than fixtures classified for general industrial applications.

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- Illuminating the dark, decorating the day.

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- NEMA-4X certified battery unit.

## **PHANTOM** **p 114 - 115**



- Fully concealed emergency lighting system.

## **MINI-PHANTOM** **p 116 - 117**



- Fully concealed, easy to retrofit emergency lighting system.

## **DIVIDER®** **p 118 - 119**



- 6 volts compact battery unit with laser option.

## **RGA** **p 120 - 121**



- Decorative battery unit.

## **RGC** **p 122 - 123**



- Compact steel battery unit.

## **RGS** **p 124 - 127**



- 6, 12 and 24 volts steel battery units.

## **SIGNATURE DECO CAB** **p 128 - 131**



- 6, 12 and 24 volts decorative battery units.

## **RGS\*TB** **p 132 - 135**



- 6, 12 and 24 volts T-Bar units..

**Q-BIC** p 136 - 137



- 6, 12 and 24 volts thermoplastic cube units

**IPL** p 138 - 139



- IP65 linear fluorescent fixture.

**SIPL** p 140 - 141



- SIPL linear fluorescent fixture.

**SIGNATURE RSTH24** p 142 - 143



- Decorative recessed fixture.

**NITE OWL NH362MH** p 144 - 145



- Thermoplastic battery units.

**PRISM RZ** p 146 - 147



- Rapid installation, decorative thermoplastic battery units.

**RGS\*DT** p 148 - 151



- NEMA-12 classified, 6, 12 and 24 volts battery units.

**RG\*HZ** p 152 - 153



- Hazardous locations battery unit

**RGSW4T** p 154 - 155



- NEMA-4X classified, 6, 12 and 24 volts battery units.

**RSF & RSFSP** p 156 - 157



- Fluorescent inverters.

**RSFSP/U/1100** p 158 - 159



- Fluorescent inverters

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- Code Descriptions

# CAMRAY Battery Unit

Illuminating the dark, decorating the day



## Features

- **CAM12 Standard Battery Unit\*** :  
Equipped with sealed lead calcium battery and PulsePlus charger. (+20 °C to +30 °C)  
Certified to CSA C22.2 N° 141.
- **CAMH12 Cold Weather Battery Unit\*** :  
Perfect solution for cold and/or wet locations.  
Equipped with NiMH\*\* battery and Auto-Test charger. (-20 °C to +40 °C)  
Certified to CSA C22.2 N° 141.

- **CAMH20 High Output Battery Unit:**  
Ideal for applications where the photometrical performance of the 10W Xenon lamp is required. Equipped with NiMH\*\* Battery and Auto-Test charger. Also suitable for wet locations. (+20 °C to +30 °C)  
Certified to CSA C22.2 N° 141.

\* CAM12 & CAMH20 packages available with 6W lamps only.

\*\* Nickel Metal Hydride: State-of-the art battery technology, lead-free and cadmium-free.



## Typical Specification

Supply and install the Lumacell CAMRAY Series battery unit. The wall mount unit shall be made of a gasketed die-cast aluminium housing, UV and impact resistant polycarbonate lens which house a resilient vacuum-plated die-cast reflector and two high-output Xenon lamps.

The unit shall be rated 120/347VAC, 60Hz dual input voltage. The battery charger shall include low voltage disconnect to prevent deep discharge. Battery lockout to prevent battery drain prior to energizing the utility power and brownout protection which will automatically switch unit into emergency mode if the utility power falls below 80% of nominal and battery reverse polarity protection. The unit shall provide the nominal load during at least 30 minutes up to 87.5% of the nominal voltage of the battery.

Models with Lead-Calcium batteries shall be equipped with a pulse-type charging circuitry that will secure a long life battery and excellent performance. This current limiting circuitry will minimize energy consumption and shall be factory set with a charging voltage tolerance of  $\pm 1\%$  to enable a longer battery life. Red LED shall indicate AC power.

Models with Nickel Metal Hydride batteries shall be equipped with the non-audible version of the auto test feature that will monitor and indicate any of the following failures, battery disconnect, lamp failure or charger failure. The pilot light shall be a bi-color LED and shall change from green to flashing red if a failure is detected for: the battery, charger circuit or lamps.

The fixture shall be suitable for wall mounting on various Junction-boxes or surface mount, using rigid conduit entry on the top of the unit. To be supplied in off white, black, platinum gray or dark bronze.

The battery unit shall be CSA Certified to C22.2 No.141.

The unit shall be Lumacell model:

\_\_\_\_\_.

## In the same family...



CAMRAY

Remote Fixtures p. 166 - 167

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

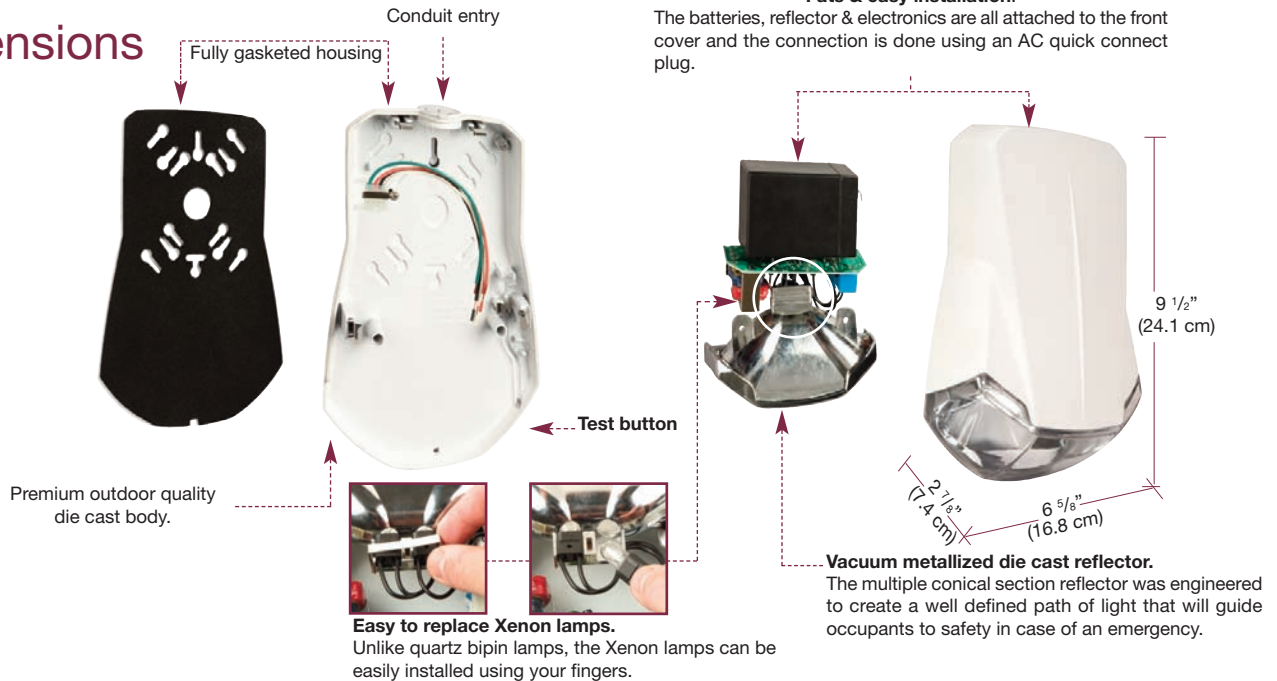


## Wire Guard

460.0082-L Wall Mount

# CAMRAY SERIES

## Dimensions



## Power Consumption and Unit Rating

Model	AC Specs			DC Specs	
<b>CAM12, CAM H12</b>	120/347 Vac	0.11/0.04 Amp	Less than 10.5W	6V - 12W	Minimum 90 min.
<b>CAMH20</b>	120/347 Vac	0.11/0.04 Amp	Less than 10.5W	6V - 20W	Minimum 60 min.

## Replacement Lamps

Odering Code	Type Specifications
570.0213-L	<b>X6W</b> , 6V - 6W, Xenon
570.0214-L	<b>X10W</b> , 6V - 10W, Xenon

## Ordering Information

Series	Wattage	Colour	Options
<b>CAM12</b> = 6V - 12W, lead calcium battery, standard charger +20°C to +30°C (+68°F to +86°F) <b>CAMH12</b> = 6V - 12W, NiMH battery -20°C to +40 °C (-4°F to +104°F) comes with ATN* <b>CAMH20</b> = 6V - 20W, NiMH battery +20°C to +30°C (+68°F to +86°F) comes with ATN* *ATN=Auto-Test non-audible	<b>X6W</b> = 6V - 6W, Xenon lamps <b>X10W</b> = 6V - 10W*, Xenon lamps  *Only available with CAMH20.	<b>OW</b> = off white <b>BK</b> = black <b>DB</b> = dark bronze <b>PG</b> = platinum grey	<b>T3</b> = Time delay (15 minutes)
		Other colors available. Please contact your sales representative.	

**EXAMPLE: CAM12X6WOWTD15**

# RG-NX Series Battery Unit

NEMA-4X certified



## Features

- Delivers great pathway illumination up to 70 feet, center-to-center (with 12V 20W lamp).
- Fully gasketed cast aluminum back plate with clear polycarbonate cover – NEMA-4X Certified.
- Comes standard with non-audible advanced diagnostic charger board, 10 minute time delay and lamp disconnect
- Audible warning and time delay functions can be enabled or disabled during installation
- Micro-controller diagnostic system tests, detects and indicates battery, charger circuitry or MR16 lamp failures
- Non intrusive magnetic test switch
- Long-life, maintenance free sealed lead acid battery
- 1/2" rigid conduit entry on top and back
- Can be installed on 4-inch junction boxes
- Comes standard with tamper-proof screws and bit
- Standard 120/347Vac input voltage
- Cold weather option (-40°C)
- NSF Certified for food processing plants
- CSA C22.2 No. 141 Certified

**NEMA-4X** N E X U S



Made in Canada



## Typical Specification

Supply and install the Lumacell NEMA-4X Certified RG-NX Series battery unit. Specifically designed for high abuse areas, wet locations, and cold weather (CW option -40°C), the housing shall be fully gasketed with a cast aluminum back plate and clear heavy-duty UV resistant polycarbonate cover. The heads shall be fully adjustable without tools and the lamps shall be high efficiency halogen MR16. The standard unit shall be equipped with tamper-proof screws and bits. The Lumacell Advanced Diagnostic Micro-controller charger board shall supply the rated load for a minimum of 30 minutes to 87.5% of the rated battery voltage. The charger incorporates lockout and brownout circuits, and low voltage disconnection. It protects the unit from over-current, short-circuit, and reverse polarity. The unit shall be rated 120/347V,

60Hz. The unit shall have an output of \_\_\_\_volts. This unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be furnished with a non-intrusive magnetic test switch. A "Service Required" lamp shall be located near the test switch and flash when a fault is detected. A four-LED diagnostic display shall be located inside the equipment and shall identify the source of failure (battery, charger, circuitry, or lamps).

The unit shall be CSA C22.2 No.141. certified. It shall also be NSF Certified for use in food processing plants.

The unit shall be Lumacell model:

\_\_\_\_\_.

## In the same family...



**LER3000**

Exit Signs

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**3LER3000**

Exit Signs

p. 72 - 73



**MQM\*NX NEMA-4X**

Remote Fixture

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Project/Location		Date
Contractor		Prepared by
LUMACELL model		

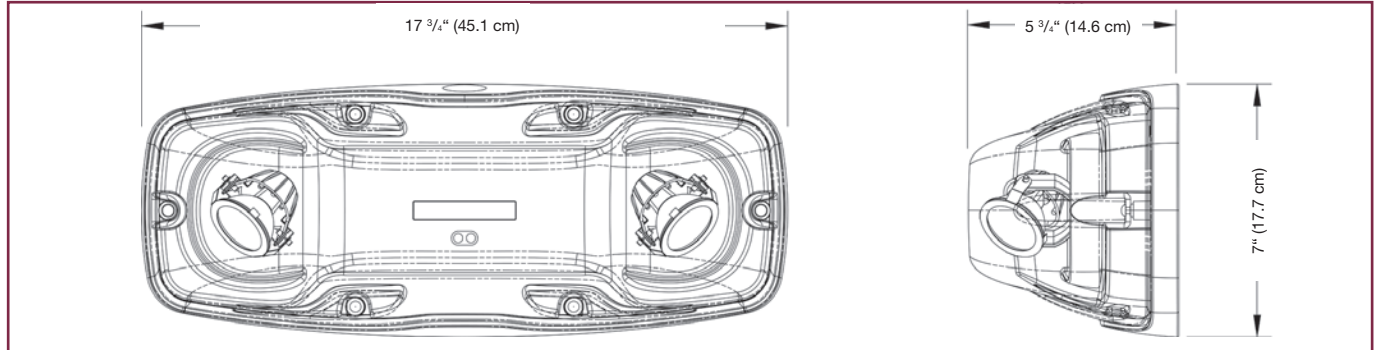


## Wire Guard

460.0031-L Wall Mount

# RG-NX SERIES

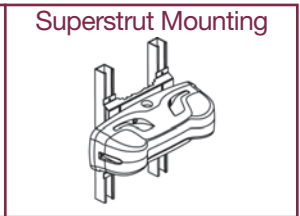
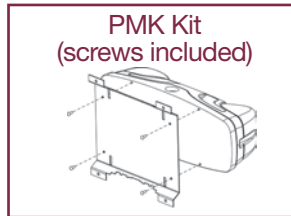
## Dimensions



## Accessories (order as a separate item)

Additional bit for tamperproof screws ... TPB

Universal bracket (for mounting on poles, I-beams). .....PMK



## Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity				
			30min	1h00	1h30	2h00	4h00
<b>RGNX36</b>	120/347 vac	0.15/0.05 Amp	36	21	15	12	6
<b>RG12NX72</b>		0.25/0.10 Amp	72	42	30	24	12
<b>RG12NX108</b>		0.25/0.10 Amp	108	63	45	36	18
<b>Cold Weather 36W</b>	120 Vac	0.45/0.20 Amp	36	*			
<b>Cold Weather 72/108W</b>		0.85 Amp	72/108	*			

\*Note: capacity depends on the ambient temperature

## Replacement Lamps

Ordering Code	Specifications
580.0074-L	<b>M6W</b> , MR16, 6V-6W FL
580.0079-L	<b>M10W</b> , MR16, 6V-10W FL
580.0080-L	<b>M12W</b> , MR16, 12V-12W FL
580.0068-L	<b>MH20W</b> , MR16, 12V-20W FL
580.0093-L	<b>L</b> , MR16, 12V-5W LED

## Ordering Information

Series	Capacity	# of heads	Voltage/Wattage/Lamp type	Colour	AC Voltage	Options
<b>RGNX=</b> 6 volts, NEMA-4X	<b>36=</b> 6V-36W <b>72=</b> 12V-72W <b>108=</b> 12V-108W	<b>2=</b> 2 heads	<b>M6W=</b> mini halogen, 6V-6 watts, MR16 <b>M10W=</b> mini halogen, 6V-10 watts, MR16 <b>M12W=</b> mini halogen, 12V-12 watts, MR16 <b>M20W=</b> mini halogen, 12V-20 watts, MR16 <b>MH20W=</b> high output, 12V-20W <b>L=</b> 12V-5W LED	<b>Blank=</b> factory white <b>BK=</b> black <b>G=</b> grey	<b>Blank=</b> 120/347 Vac <b>ZC=</b> 277 Vac	<b>Blank=</b> no options <b>CW1=</b> cold weather 120Vac <b>*CW3=</b> cold weather 347Vac <b>**NEX=</b> NEXUS® system interface

**EXAMPLE: RGNX362M6W**

\* Available in 6V only.  
\*\*Not all options available with NEXUS®. Consult Factory.

# PHANTOM Battery Unit

Recessed cabinet,  
Emergency Lighting System



## Features

- **Fully automatic operation:** the unit door opens upon loss of AC power and closes when the power is back or at the end of battery discharge
- **Input:** Standard AC input 120/347Vac, 0.25/0.09 Amps; optional 120/277Vac
- **Battery:** maintenance-free, sealed Lead-acid battery, with a 10-year design life
- **Charger:** micro-controller driven, temperature compensated, high-precision, fast recharge
- **Back-box (self-powered unit):** made of heavy-duty, galvanized steel
- **Remote fixture:** version available in 12Vdc or 24Vdc; no back box, no AC wires are required
- **Certification:** CSA C22.2 No.141



Made in Canada



## Typical Specification

Supply and install Lumacell Series Phantom. The unit shall be designed to be concealed in walls or ceilings with a cavity, including T-bar suspended ceilings. Bar hanger brackets shall be provided with the self-powered unit. The equipment shall consist of a metal back box containing the batteries, the lamp assembly and a charging circuitry. The back box shall be constructed of heavy-duty galvanized steel. The unit components: battery assembly, charger circuitry and lamp assembly shall have a modular design and come standard with quick connect plugs for easy installation in the back box. The unit equipment shall be completely concealed in the wall or ceiling during normal power conditions. Upon a power failure the unit will expose the emergency heads by rotating its door 180° and then power the lamps. At the restoration of the AC power or at the end of the battery discharge, the lamps will turn off and the unit will retract the heads in the wall (ceiling) by rotating the door by 180°. Under normal conditions, the only visible parts of the unit shall be the flat door and trim plate, coated with a high-quality off-white finish that can be customized on site with paint or other suitable wall covering. The light source shall be 12V MR16 halogen lamps of specified wattage and light output. The unit shall supply the rated load for a minimum of 30 minutes or until the battery is discharged to 87 ½% of its nominal

voltage (whichever duration is longer). The charger circuitry shall utilize a micro-controller IC that samples the battery in relation to the ambient temperature, state of charge, and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof, and reverse-polarity protected. The circuit will charge in accordance with the CSA C22.2 – 141 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light.

Auto-test and diagnostic: the unit will come complete with the Lumacell™ series of auto-test micro-controller circuitry that will ensure the equipment readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, the pilot light located on the front of the unit, will change color from green to red and will flash indicating a fault. A detailed diagnostic legend shall be available on the door back side and shall provide fault identification (battery, charger circuitry, lamps) for the maintenance personnel. The auto-test shall simulate a power loss for one minute monthly, 10 minutes every sixth months, and a full 30-minute test every 12 months.

The equipment shall be Lumacell model: \_\_\_\_\_.

In the same family...



PHANTOM

Remote Fixtures p. 172 - 173

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



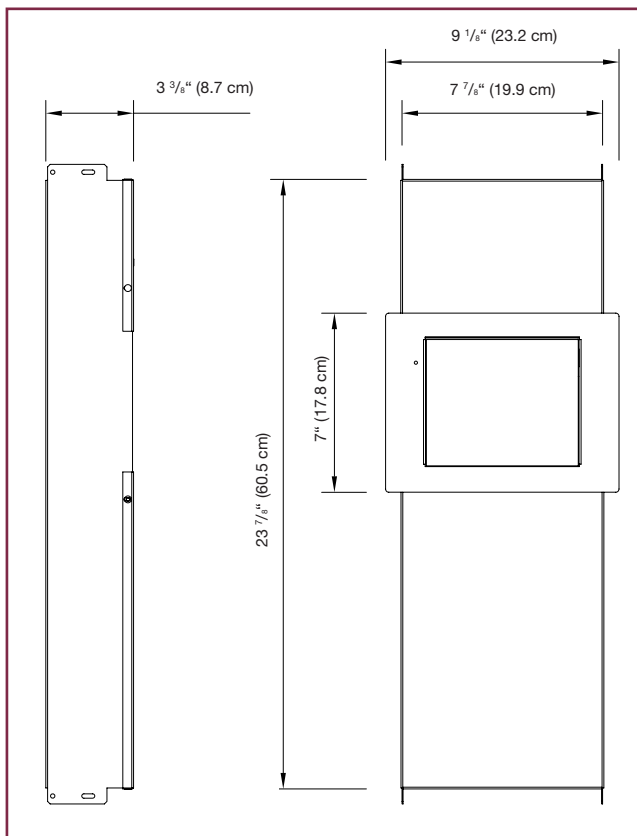
Opened



Closed

# PHANTOM SERIES

## Dimensions



## Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity				
			30min	1h00	1h30	2h00	4h00
<b>PH75</b>	120/347 Vac	0.25/0.09 Amp	75	40	30	24	15
<b>PH150</b>			150	80	60	48	30

## Replacement Lamps

Model	Lamp Type	Voltage-Wattage
580.0080-L	MR16 12W Flood	12V-12W
580.0064-L	MR16 20W Flood	12V-20W
580.0083-L	MR16 35W Flood	12V-35W
580.0076-L	MR16 50W Flood	12V-50W
580.0068-L	MR16 IR* 20W Flood	12V-20W
580.0090-L	MR16 IR* 35W Flood	12V-35W
580.0089-L	MR16 IR* 50W Flood	12V-50W
580.0084-L	MR16	24V-35W
580.0070-L	MR16	24V-12W
580.0077-L	MR16	24V-20W
580.0078-L	MR16	24V-50W

\* High-output (H).

See the complete list p. 196 to 199.

## Ordering Information

Series	Unit Capacity	Lamp Wattage	AC Voltage	Options
<b>PH</b>	<b>75</b> = 12V, 75W <b>150</b> = 12V, 150W	<b>12W</b> = 2x 12 watts MR16	<b>Blank</b> = 120/347Vac <b>ZC</b> = 120/277Vac	<b>AT</b> = Auto-Test <b>ATN</b> = Auto-Test, non-audible <b>T3</b> = Time delay (15 minutes)
		<b>20W</b> = 2x 20 watts MR16		
		<b>35W</b> = 2x 35 watts MR16		
		<b>50W</b> = 2x 50 watts MR16		
		<b>20WH</b> = 2x 20 watts MR16, High lumen-output lamp		
		<b>35WH</b> = 2x 35 watts MR16, High lumen-output lamp		
<b>50WH</b> = 2x 50 watts MR16, High lumen-output lamp				

**EXAMPLE: PH15012WAT**

# MINI-PHANTOM Battery Unit

Unseen solution, The Next Generation



## Features

- **Easy to retrofit in finished walls:** the unit slides in through an 8.25-in by 5.75-in hole
- **No back-box needed to pre-install**
- **Fully automatic operation:** the unit door opens upon loss of AC power and closes when the power is returned, or at the end of the battery discharge
- **Input:** Standard AC input 120/347Vac; optional 120/277Vac
- **Output:** 12Vdc with up to 100 watts of power
- **Battery:** choice of sealed, maintenance-free Lead-Calcium or Nickel-Metal Hydride
- **Remote capacity:** can drive several wall or ceiling-mount 12-Vdc remote Phantom fixtures
- **Charger:** micro-controller driven, temperature compensated, high-precision, fast recharge
- **Remote AC fixture:** direct connection to 120 or 347Vac power generators



Made in Canada



## Typical Specification

Supply and install Lumacell Series Mini-Phantom. The unit shall be designed to be completely concealed in walls with a cavity. The equipment shall consist of a metal housing containing two modules joined by a flexible bracket and electric conduit. One module contains the battery, charger circuitry and electrical connection box; the other module contains the emergency lights installed on the back of a door able to rotate several turns of 360°. The unit equipment shall be completely concealed in the wall, after the installation through a rectangular opening not larger than 8.25-in by 5.75-in.

In stand-by mode, the only visible parts of the unit shall be the flat door and trim plate, coated with a high-quality off-white finish that can be customized on site with paint or other suitable wall covering. Upon a power failure the unit will expose the emergency heads by rotating its door 180° and then will power the lamps. At the restoration of the AC power or at the end of the battery discharge, the lamps will turn off and the unit will retract the heads by rotating the door 180° in the same direction.

The unit shall not require the presence of AC power in order to close the door and conceal the lights. The door of the unit shall be easy to force-turn (open or close) by hand, in any rotation direction. The light source shall be 12V MR16 halogen lamps of specified wattage and light output. The unit shall supply the

rated load for a minimum of 30 minutes or until the battery is discharged to 87 ½% of its nominal voltage (whichever duration is longer). The charger circuitry shall utilize a micro-controller IC that samples the battery in relation to the ambient temperature, state of charge, and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof, and reverse-polarity protected. The circuit will charge in accordance with the CSA C22.2 – 141 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light.

Auto-test and diagnostic: the unit will come complete with the Lumacell series of auto-test micro-controller circuitry that will ensure the equipment readiness and reliability by continuously monitoring every critical function of the unit. If a component failure occurs, the pilot light located on the front of the unit, will change color from green to red and will flash indicating a fault. A detailed diagnostic legend shall be available on the back side of the door and shall provide fault identification (battery, charger circuitry, lamps) for the maintenance personnel. The auto-test shall simulate a power loss for one minute monthly, 10 minutes every sixth months, and a full 30-minute test every 12 months.

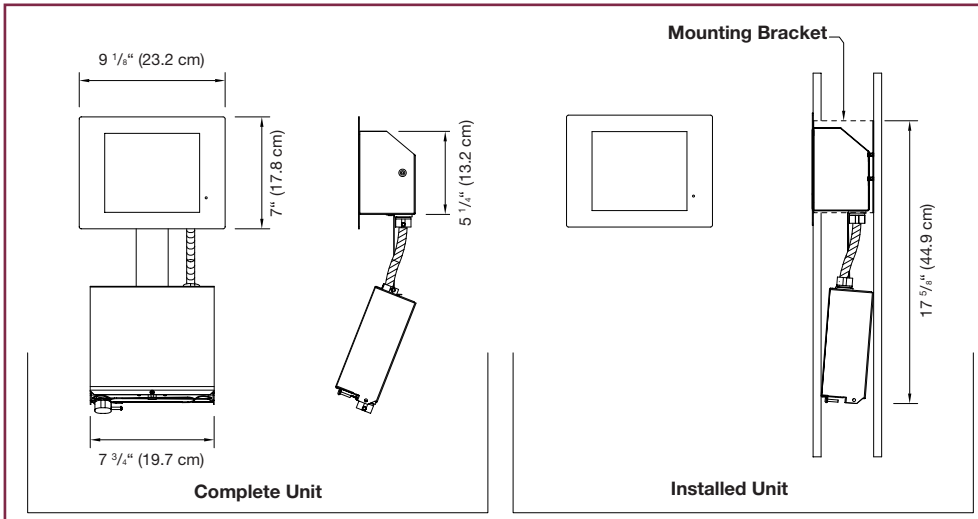
The equipment shall be Lumacell model: \_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



# MINI-PHANTOM SERIES

## Dimensions



In the same family...

**MINI-PHANTOM**

Remote Fixtures p. 174 - 175

## Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity			
			30min	1h00	2h00	3h00
<b>MPS80</b>	120/347 Vac	0.25/0.08 Amp	80	40	24	-
<b>MPH100</b>	120/347 Vac	0.25/0.08 Amp	100	70	36	24
<b>MPG</b>	120 Vac	Max. 0.95 Amp	Max. 100W load			
<b>MPG-ZC</b>	277 Vac	Max. 0.45 Amp	Max. 100W load			
<b>MPG-ZD</b>	347 Vac	Max. 0.35 Amp	Max. 100W load			

## Replacement Lamps

Model	Lamp Type	Voltage-Wattage
580.0080-L	MR16 12W Flood	12V-12W
580.0064-L	MR16 20W Flood	12V-20W
580.0083-L	MR16 35W Flood	12V-35W
580.0076-L	MR16 50W Flood	12V-50W
580.0068-L	MR16 IR * 20W Flood	12V-20W
580.0090-L	MR16 IR * 35W Flood	12V-35W
580.0089-L	MR16 IR * 50W Flood	12V-50W

\* High-output (H).

See the complete list p. 196 to 199.

## Ordering Information

Series	Unit Capacity	Lamp Wattage	AC Voltage	Options
<b>MP</b>	<b>S80</b> = Lead-Calcium, 12V, 80W <b>H100</b> = Nickel-Metal Hydride, 12V, 100W	<b>12W</b> = 2x 12watts MR16	<b>Blank</b> = 120/347Vac <b>ZC</b> = 277Vac	<b>AT</b> = Auto-Test <b>ATN</b> = Auto-Test, non-audible <b>T3</b> = Time delay (15 minutes)
		<b>20W</b> = 2x 20watts MR16		
		<b>35W</b> = 2x 35watts MR16		
		<b>50W</b> = 2x 50watts MR16		
		<b>20WH</b> = 2x 20watts MR16, High lumen-output lamp		
<b>35WH</b> = 2x 35watts MR16, High lumen-output lamp				
		<b>50WH</b> = 2x 50watts MR16, High lumen-output lamp		

**EXAMPLE: MPS8035WHAT**

# DIVIDER® Battery Unit

With laser option



## Features

- Injection-molded, impact-, scratch- and corrosion-resistant thermoplastic white housing (also available in black)
- Compact and versatile – unit measures only 11” x 5” and can be wall or ceiling mounted
- Fast and easy installation – AC quick connect plug, battery lockout feature and snap together design
- Tool less aiming and adjustment of lighting heads
- Maintenance-free, long-life sealed lead calcium battery
- 120/347Vac standard input
- Fully automatic, solid-state Pulse-Guard charger with low voltage battery disconnect, brownout protection, integral test switch and long-life LED AC-On pilot lights
- Charger is temperature compensated and reverse polarity protected
- CSA C22.2 No. 141 certified



Made in Canada



## Typical Specification

The contractor will install the Lumacell Divider battery unit. The emergency lighting system shall consist of fully automatic equipment with two (2) emergency lighting heads. The emergency lighting heads shall require no tools for adjusting or aiming. Each unit shall contain a fully automatic, solid-state charger with test switch and AC-on pilot lights. The unit shall contain a sealed transfer circuit and low-voltage disconnect circuit.

The battery unit may come with laser option designed to guide patrons through the path of egress. The battery shall be 6 volts with capacity of 36 watts for 30 minutes.

The unit shall be CSA C22.2 no 141.

The unit shall be Lumacell model:  
\_\_\_\_\_.

## In the same family...



**DIVIDER®**

Remote Fixtures p. 176

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

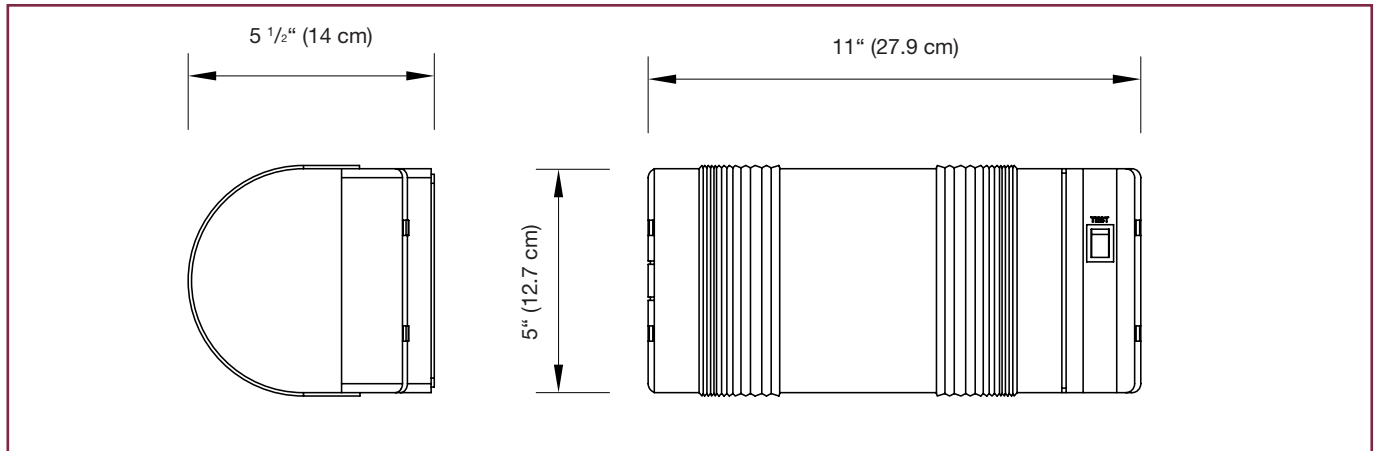


## Wire Guard

460.0080-L Wall Mount

# DIVIDER® SERIES

## Dimensions



## Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity				
			30min	1h00	1h30	2h00	4h00
<b>RG18LXIDIVIDER</b>	120/347 Vac	0.07/0.03 Amp	18	10	7	6	-
<b>RG36LXIIDIVIDER</b>		0.08/0.03 Amp	36	21	15	12	6

## Replacement Lamps

Ordering Code	Lamp Type	Voltage - Wattage
570.0016-L	mini tungsten, wedge base	6V - 9W

## Ordering Information

Series	Colour	Input Voltage	Options
<b>RG18LXIDIVIDER</b> = 6V, 8W	<b>Blank</b> = factory white	<b>Blank</b> = 120/347 Vac*	<b>Blank</b> = no option
<b>RG36LXIIDIVIDER</b> = 6V, 36W	<b>BK</b> = black		<b>AT</b> = Auto-Test
			<b>ATNA</b> = Auto-Test non-audible
			<b>LS</b> = laser
			<b>V</b> = voltmeter
			<b>VR</b> = tamper proof screws
			<b>**990.0179-L</b> = tamper proof

## EXAMPLE: RG18LXIDIVIDER

\*Line cord kit supplied but not installed.  
\*\*One bit needed per order.

# RGA Battery Unit

decorative, 6 and 12 volts



## Features

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator light(s)
- Long-life, maintenance-free lead acid battery
- Standard 120/347Vac input voltage
- **NEXUS**<sup>®</sup> compatible (for more information on **NEXUS**<sup>®</sup>, please consult factory)
- CSA C22.2 No. 141 certified

NEXUS



Made in Canada



## Typical Specification

Supply and install the Lumacell RGA Series battery units. The battery unit shall come complete with two MR16 emergency light heads.

The unit shall be rated for dual voltage 120/347V, 60 Hz. The unit shall provide the nominal load during at least 30 minutes up to 87.5% of the nominal voltage of the battery. The charger shall be factory set with a charging voltage tolerance of  $\pm 1\%$  to enable a longer battery life.

The emergency light heads shall be fully adjustable and protected by an aesthetically pleasing clear cover, made of shock resistant polycarbonate. The protective cover shall be designed to facilitate lamp replacement. The heads shall be installed at the bottom of the unit, providing an illumination in any downward direction.

The emergency light heads shall require no tools for

adjusting or aiming. The metal cabinet shall be made of steel with anti-corrosion undercoating.

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

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

The unit shall be Lumacell model:

\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

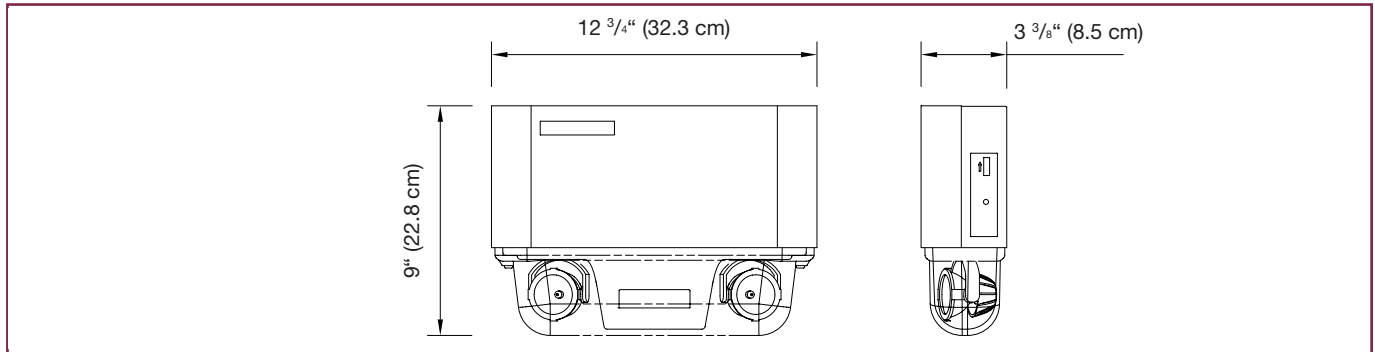


## Wire Guard

460.0080-L Wall Mount

## RGA SERIES

## Dimensions



## Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity				
			30min	1h00	1h30	2h00	4h00
<b>RGA27</b>	120/347 Vac	0.06/0.02 Amp	27	15	11	9	-
<b>RGA44</b>		0.18/0.06 Amp	44	26	18	15	7
<b>RGA72</b>		0.19/0.07 Amp	72	42	30	24	12
<b>RG12A44</b>		0.31/0.10 Amp	44	26	18	15	7
<b>RG12A72</b>		0.31/0.10 Amp	72	42	30	24	12

## Replacement Lamps

Ordering Code	Type	Voltage-Wattage
580.0074-L	MR16 (MQM6W)	6V-6W
580.0079-L	MR16 (MQM10W)	6V-10W

Ordering Code	Type	Voltage-Wattage
580.0080-L	MR16 (MQM12W)	12V-12W
580.0068-L	MR16 (MQMH20W)	12V-20W

## Ordering Information

Series	Capacity	# of heads	Head Style/Wattage	Colour	AC Voltage	Options
<b>RGA=</b> 6 volts	<b>*27=</b> 27watts <b>44=</b> 44 watts	<b>2=</b> 2 heads	<b>MQM6W=</b> mini halogen, 6V - 6W, MR16	<b>Blank=</b> factory white <b>BK=</b> black	<b>Blank=</b> 120/347 Vac <b>ZC=</b> 277 Vac input <b>*ZB=</b> 240 Vac input	<b>Blank=</b> no options
<b>RG12A=</b> 12 volts	<b>72=</b> 72 watts		<b>MQM10W=</b> mini halogen, 6V - 10W, MR16			<b>ATN=</b> Auto-Test non-audible**
			<b>MQM12W=</b> mini halogen, 12V - 12W, MR16 <b>MQMH20W=</b> mini halogen, high output, 12V - 20W, MR16			<b>NEX=</b> NEXUS®*** system interface <b>CT=</b> cabtire <b>TL=</b> Twistlock plug <b>LC=</b> line cord (120V seul.)
	* Available in 6V only.				* Not CSA approved	** 6V - 72W available in RGS series only. *** Not available in 6V - 72W.

**EXAMPLE: RGA272MQM6W**

# RGC Battery Unit

Steel, compact, 6 and 12 volts



## Features

- Compact steel cabinet with corrosion-resistant undercoating
- Quick and easy installation – pre-assembled cordset, no batteries or board to remove before installation
- Universal Spider knockout pattern for junction box mounting
- Fully automatic solid-state charger with test switch and AC-on pilot light
- Sealed dust-proof transfer relay circuit and low-voltage disconnect
- Long-life, maintenance-free sealed lead battery provides 30 minutes of illumination in emergency mode with complete recharge within 24 hours
- Heads requires no tools for adjusting or aiming
- Wide choice of lamps include MR16, tungsten and halogen
- Standard input 120Vac with line cord installed
- 120/347Vac without line cord
- CSA C22.2 No. 141 certified

NEXUS



Made in Canada



## Typical Specification

The contractor shall install the Lumacell RGC Series battery units. The emergency lighting system shall consist of fully automatic equipment with two emergency lighting heads. The unit shall be \_\_\_ volts with a capacity of \_\_\_ watts for 30 minutes minimum.

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

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

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

The unit shall be Lumacell model:

\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

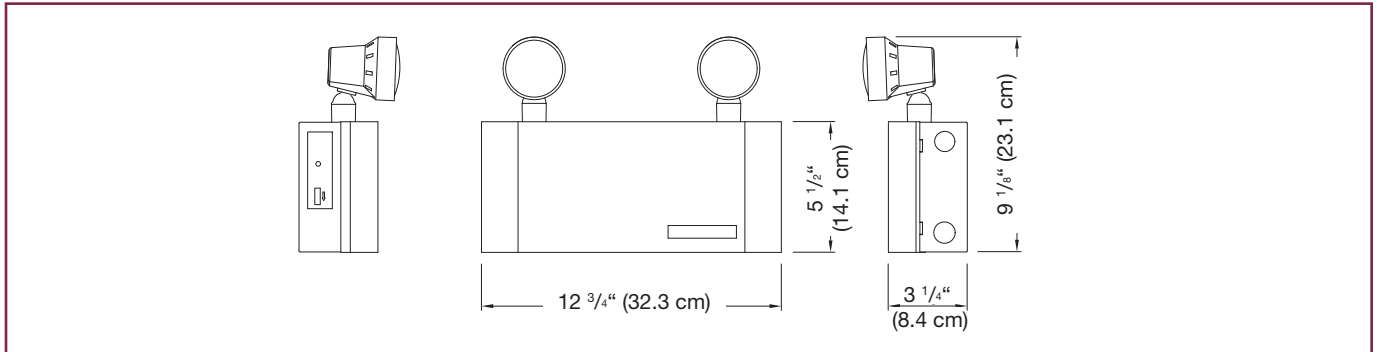


## Wire Guard

460.0080-L Wall Mount

# RGC SERIES

## Dimensions



## Power Consumption and Unit Rating

Model	AC Specs	Wattage capacity					
		30min	1h00	1h30	2h00	4h00	
<b>RGC27</b>	120/347 Vac	0.06/0.02 Amp	27	15	11	9	-
<b>RGC44</b>		0.18/0.06 Amp	44	26	18	15	7
<b>RGC72</b>		0.19/0.07 Amp	72	42	30	24	12
<b>RG12C44</b>		0.31/0.10 Amp	44	26	18	15	7
<b>RG12C72</b>		0.31/0.10 Amp	72	42	30	24	12

## Replacement Lamps

Ordering Code	Type	Voltage-Wattage
570.0012-L	Mini tungsten (MT9W)	6V - 9W
570.0025-L	Mini tungsten (MT9W)	12V - 9W

For the complete list, please see the lamp chart on page 196 to 199.

## Ordering Information

Series	Capacity	# of heads	Head style/Wattage	Colour	Tension d'entree	Options
<b>RGC=</b> 6 volts	<b>*27=</b> 27 watts (6 volts only)	<b>Blank=</b> no head	<b>MT9W=</b> mini tungsten, 6V, 12V - 9W, wedge base	<b>Blank=</b> factory white	<b>Blank=</b> 120Vac input with line cord installed	<b>Blank=</b> no options
<b>RG12C=</b> 12 volts	<b>44=</b> 44 watts <b>72=</b> 72 watts	<b>1=</b> one head <b>2=</b> two heads	<b>MT18W=</b> mini tungsten, 12V - 18W, wedge base	<b>BK=</b> black		<b>**AT=</b> Auto-Test
			<b>MQ8W=</b> mini halogen, 6V, 12V - 8W, quartz bi-pin		<b>**ATN=</b> Auto-Test non-audible	<b>CT=</b> Cabtire
			<b>MQ12W=</b> mini halogen, 6V, 12V - 12W, quartz bi-pin		<b>ZC=</b> 277Vac input	<b>TL=</b> Twistlock plug
			<b>MQM6W=</b> mini halogen, 6V - 6W, MR16		<b>*ZB=</b> 240Vac input	<b>***NEX=</b> NEXUS® system interface
			<b>MQM10W=</b> mini halogen, 6V - 10W, MR16		<b>ZD=</b> 120/347 Vac input	
			<b>MQM12W=</b> mini halogen, 12V - 12W, MR16			
			<b>MQM20W=</b> mini halogen, 12V - 20W, MR16			
			<b>LH9W=</b> large tungsten, 6V, 12V - 9W, wedge base			
			<b>LH18W=</b> large tungsten, 12V - 18W, wedge base			
			<b>LH25W=</b> large tungsten, 6V, 12V - 25W, DCB			
			<b>LHQ8W=</b> large halogen, 6V, 12V - 8W, quartz bi-pin			
			<b>LHQ12W=</b> large halogen, 6V, 12V - 12W, quartz bi-pin			
			<b>LHQ20W=</b> large halogen, 6V, 12V - 20W, quartz bi-pin			
			<b>SB9W=</b> large tungsten, 6V - 9W, sealed beam			
			<b>SB18W=</b> large tungsten, 6V, 12V - 18W, sealed beam			
			<b>SB25W=</b> large tungsten, 6V, 12V - 25W, sealed beam			
			<b>QSB8W=</b> large halogen, 6V, 12V - 8W, quartz sealed beam			
			<b>QSB12W=</b> large halogen, 6V, 12V - 12W, quartz sealed beam			
			<b>QSB20W=</b> large halogen, 6V - 20W, quartz sealed beam			

\* Available in 6V only.

\* Not CSA approved

\*\* 6V-72W available in RGS series only.  
\*\*\* Consult your sales representative, not available in 6V-72W.

## EXAMPLE: RGC27MT9W

# RGS Battery Unit

6, 12 and 24 volts



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

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

NEXUS



Made in Canada



## Features

- Rugged steel cabinet with corrosion-resistant undercoating – standard colour is factory white, polar white and black available as options
- Removable front panel on cabinet provides easy access and allows unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- Wide range of lampheads available – consult Ordering Information for complete list
- Standard 120/347Vac input voltage with line cord kit
- **NEXUS**® compatible (for more information on **NEXUS**®, please consult factory.)
- CSA C22.2 No. 141 certified

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

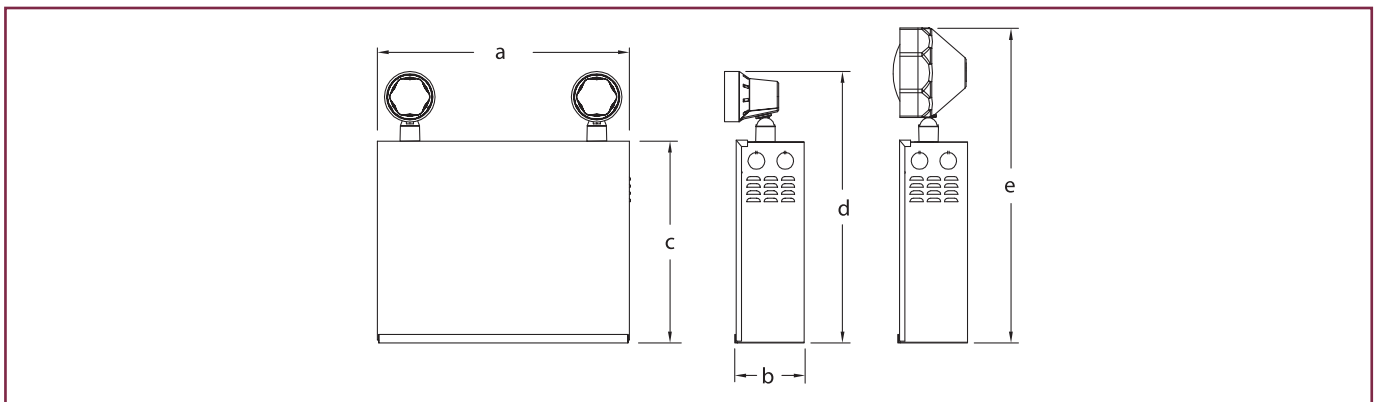


## Wire Guards

460.0078-L	Wall Mount	"A" Cabinet
460.0081-L	Wall Mount	"B" Cabinet
460.0034-L	Wall Mount	"C" Cabinet

## RGS SERIES

## Dimensions



Cabinet	Dimensions				
	a	b	c	d	e
<b>A</b>	13 1/4 " (33.4 cm)	3 5/8 " (9.2 cm)	10 1/2 " (26.8 cm)	14 1/4 " (36.0 cm)	16 1/2 " (41.7 cm)
<b>B</b>	16 1/8 " (41.0 cm)	5 1/2 " (13.8 cm)	10 1/4 " (26.1 cm)	13 7/8 " (35.3 cm)	16 1/8 " (41.0 cm)
<b>C</b>	23 1/8 " (58.8 cm)	5 1/2 " (13.8 cm)	10 1/4 " (26.1 cm)	13 7/8 " (35.3 cm)	16 1/8 " (41.1 cm)

## Replacement Lamps

Ordering Code	Lampe Type	Voltage-Wattage
570.0016-L	Mini tungsten (MT9W)	6V - 9W
570.0025-L	Mini tungsten (MT9W)	12V - 9W
570.0045-L	Mini tungsten (MT9W)	24V - 9W

For the complete list, please see the lamp chart on page 196 to 199.

# RGS Battery Unit

6, 12 and 24 volts



## Typical Specification

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

The Lumacell Smart Diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of \_\_\_\_\_ volts.

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

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

The unit shall be Lumacell model:  
\_\_\_\_\_.



**Single,  
regular head**



**Single,  
metal head**

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



## Power Consumption and Unit Rating

# RGS SERIES

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
RGS36	120/347Vac	0.10/0.04 Amp	36	21	15	12	6
RGS72		0.22/0.08 Amp	72	42	30	24	12
RGS108		0.22/0.08 Amp	108	63	45	36	18
RGS180		0.22/0.08 Amp	180	105	75	60	30
RG12S36		0.09/0.03 Amp	36	21	15	12	6
RG12S72		0.15/0.06 Amp	72	42	30	24	12
RG12S100		0.34/0.12 Amp	100	58	42	33	17
RG12S144		0.40/0.14 Amp	144	84	60	48	24
RG12S200		0.41/0.14 Amp	200	117	83	67	33
RG12S220		0.41/0.14 Amp	220	120	90	72	36
RG12S250		0.41/0.14 Amp	250	144	100	83	42
RG12S360		0.43/0.15 Amp	360	210	150	120	60
RG12S360HP		0.43/0.15 Amp	360	210	150	120	60
RG24S144		0.55/0.20 Amp	144	84	60	48	24
RG24S200		0.67/0.23 Amp	200	117	83	67	33
RG24S288		0.67/0.23 Amp	288	168	120	96	48
RG24S350		0.67/0.23 Amp	350	200	144	120	60
RG24S432		0.67/0.23 Amp	432	250	180	144	72
RG24S550		0.88/0.33 Amp	550	320	230	180	90
RG24S720		0.88/0.33 Amp	720	420	300	240	120
RG24S720HP		0.88/0.33 Amp	720	420	300	240	120

## Ordering Information

Series	Capacity Cabinet Size	# of heads	Head Style/Lamp Wattage	Colour	AC Voltage	Options
RGS=	36= 36 watts (A)* 72= 72 watts (A)* 108= 108 watts (A)* 180= 180 watts (B)*	Blank= no head 1= one head	MT9W= mini-tungsten, 6V, 12V, 24V, 9W, wedge base MT18W= mini-tungsten, 12V, 24V, 18W, wedge base	Blank= factory white BK= black	Blank= 120/347Vac input ZB= 240 Vac input ZC= 277 Vac input ZE= 220 Vac, 50 Hz input	Blank=no options A= ammeter AT= Auto-Test ATN= Auto-Test non audible CT= cabtire DPF6= 6cct. fuse panel LD= lamp disconnect LTS= light activated test switch **NEX= NEXUS® system interface (6 Volts, 12 Volts; consult factory) RRT= remote test receiver TD= time delay (programmable) TL= Twistlock plug TMBB= a.c./d.c. terminal block TMBD= d.c. terminal block TMBK= a.c. terminal block V= voltmeter ***HHC= remote test transmitter
RG12S=	36= 36 watts (A)* 72= 72 watts (A)* 100= 100 watts (A)* 144= 144 watts (A)* 200= 200 watts (B)* 220= 220 watts (B)* 250= 250 watts (B)* 360= 360 watts (B)*	2= two heads 3= three heads	MQ8W= mini-halogen, 6V, 12V, 8W, quartz bi-pin MQ12W= mini-halogen, 6V, 12V, 12W, quartz bi-pin MQM6W= mini-halogen, 6V, 6W, MR16 MQM10W= mini-halogen, 6V, 10W, MR16 MQM12W= mini-halogen, 12 V, 24V, 12W, MR16 MQM20W= mini-halogen, 12V, 20W, MR16			
RG24S=	144= 144 watts (A)* 200= 200 watts (B)* 288= 288 watts (B)* 350= 350 watts (C)* 432= 432 watts (C)* 550= 550 watts (C)* 720= 720 watts (C)*		LH9W= tungsten, 6V, 12V, 24V, 9W, wedge base LH18W= tungsten, 12V, 24V, 18W, wedge base LH25W= tungsten, 6V, 12V, 24V, 25W, DCB LHQ8W= halogen, 6V, 12V, 8W, quartz bi-pin LHQ12W= halogen, 6V, 12V, 12W, quartz bi-pin LHQ20W= halogen, 6V, 12V, 24V, 20W, quartz bi-pin LHQ55W= halogen, 12V, 55W*, quartz bi-pin LHQ70W= halogen, 24V, 70W**, quartz bi-pin SB9W= tungsten, 6V, 9W, sealed beam SB12W= tungsten, 12V, 12W, sealed beam SB18W= tungsten, 6V, 12V, 18W, sealed beam SB25W= tungsten, 6V, 12V, 25W, sealed beam QSB8W= halogen, 6V, 12V, 8W, quartz sealed beam QSB12W= halogen, 6V, 12V, 12W, quartz sealed beam QSB20W= halogen, 6V, 20W, quartz sealed beam			
	* Cabinet size is not part of the ordering information.		* Aluminum heads only. ** High temperature heads only.			**Not all options available with NEXUS®. Contact your sales representative. ***One per order.

### EXAMPLE: RGS36MT9W

# SIGNATURE DECO CAB Battery Unit

decorative 6,12 and 24 volts



## High performance and energy efficiency in a contemporary design.

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

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

NEXUS



Made in Canada



## Features

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated,
- short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights continuously monitor unit status
- Long-life, maintenance-free lead acid battery
- Standard 120/347Vac input voltage with line cord kit
- **NEXUS®** compatible (for more information on **NEXUS®**, please consult factory)
- CSA C22.2 No. 141 certified

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



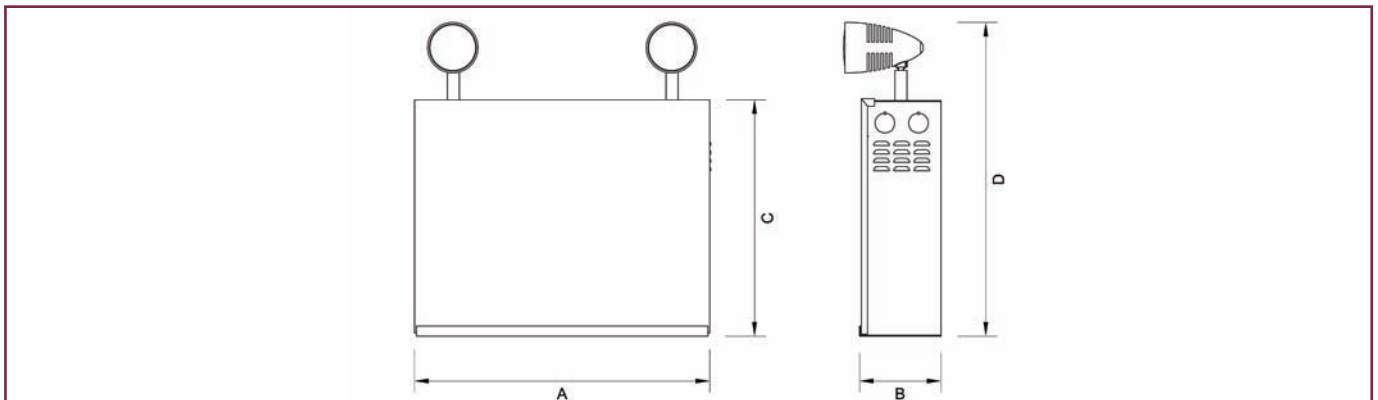
# SIGNATURE

# DECO CAB SERIES

## Wire Guards

460.0078-L	Wall Mount	"A" Cabinet
460.0081-L	Wall Mount	"B" Cabinet
460.0034-L	Wall Mount	"C" Cabinet

## Dimensions



Cabinet	Dimensions			
	a	b	c	d
<b>A</b>	13 1/4" (33.4 cm)	3 5/8" (9.2 cm)	10 1/2" (26.8 cm)	14 1/4" (36.0 cm)
<b>B</b>	16 1/8" (41.0 cm)	5 1/2" (13.8 cm)	10 1/4" (26.1 cm)	13 7/8" (35.3 cm)
<b>C</b>	23 1/8" (58.8 cm)	5 1/2" (13.8 cm)	10 1/4" (26.1 cm)	13 7/8" (35.3 cm)

## Replacement Lamps

Ordering Code	Lamp Type	Voltage-Wattage
570.0074-L	MR16, FL	6V - 6W
570.0079-L	MR16, FL	6V - 10W
580.0080-L	MR16, FL	12V - 12W

For the complete list, please see the lamp chart on page 196 to 199.

Continue >>

# SIGNATURE DECO CAB Battery Unit

decorative 6,12 and 24 volts



## Typical Specification

Supply and install the Lumacell Signature Series battery units.

The battery unit will supply the rated load for a minimum of \_\_\_\_\_ hour to 87.5% of the rated battery/voltage. The unit shall be rated 120 or 347V, 60 Hz and be CSA listed. The charger shall be fully computer tested and its charge voltage factory set to + or - 1% tolerance. A pulse type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide continuous high charge to recharge the battery. When the battery is at full capacity the charger will shut off. The pulse charge shall be current limited and precisely regulated by an electronic circuit which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected.

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

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

The unit shall be Lumacell model:

\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



# SIGNATURE

# DECO CAB SERIES

## Power Consumption and Unit Rating

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
<b>RGS36</b>	120/347Vac	0.10/0.04 Amp	36	21	15	12	6
<b>RGS72</b>		0.22/0.08 Amp	72	42	30	24	12
<b>RGS108</b>		0.22/0.08 Amp	108	63	45	36	18
<b>RGS180</b>		0.22/0.08 Amp	180	105	75	60	30
<b>RG12S72</b>		0.15/0.06 Amp	72	42	30	24	12
<b>RG12S100</b>		0.34/0.12 Amp	100	58	42	33	17
<b>RG12S144</b>		0.40/0.14 Amp	144	84	60	48	24
<b>RG12S200</b>		0.41/0.14 Amp	200	117	83	67	33
<b>RG12S220</b>		0.41/0.14 Amp	220	120	90	72	36
<b>RG12S250</b>		0.41/0.14 Amp	250	144	100	83	42
<b>RG12S360</b>		0.43/0.15 Amp	360	210	150	120	60
<b>RG12S360HP</b>		0.43/0.15 Amp	360	300	210	170	80
<b>RG24S144</b>		0.55/0.20 Amp	144	84	60	48	24
<b>RG24S200</b>		0.67/0.23 Amp	200	117	83	67	33
<b>RG24S288</b>		0.67/0.23 Amp	288	168	120	96	48
<b>RG24S350</b>		0.67/0.23 Amp	350	200	144	120	60
<b>RG24S432</b>		0.67/0.23 Amp	432	250	180	144	72
<b>RG24S550</b>		0.88/0.33 Amp	550	320	230	180	90
<b>RG24S720</b>		0.88/0.33 Amp	720	420	300	240	120
<b>RG24S720HP</b>		0.88/0.33 Amp	720	600	420	340	160

## Ordering Information

Series	Capacity Cabinet Size	# of heads	Head Style	Lamp Wattage	Colour	AC Voltage	Options	
<b>RGS=</b> 6 volts	<b>36=</b> 36 watts (A)*	<b>1=</b> one head	<b>DR1130=</b> closed	<b>6W=</b> 6V, 6 watts	<b>Blank=</b> polar white	<b>Blank=</b> 120/347 Vac input	<b>Blank=</b> no options	
	<b>72=</b> 72 watts (A)			<b>10W=</b> 6V, 10 watts			<b>BK=</b> black	<b>A=</b> ammeter
	<b>108=</b> 108 watts (A)*			<b>12W=</b> 12V, 12 watts			<b>ZB=</b> 240 Vac input	<b>AT=</b> Auto-Test
<b>RG12S=</b> 12 volts	<b>180=</b> 180 watts (B)*	<b>2=</b> two heads		<b>20W=</b> 12V, 24V, 20 watts		<b>ZC=</b> 277 Vac input	<b>ATN=</b> Auto-Test non-audible	
	<b>72=</b> 72 watts (A)*			<b>35W=</b> 12V, 24V, 35 watts			<b>ZE=</b> 220 Vac, 50 Hz input	<b>CT=</b> cabtire
	<b>100=</b> 100 watts (A)*			<b>50W=</b> 12V, 24V, 50 watts				<b>DPF6=</b> 6cct. fuse panel
	<b>144=</b> 144 watts (A)*							<b>LD=</b> lamp disconnect
	<b>200=</b> 200 watts (B)*							<b>LTS=</b> light activated test switch
	<b>250=</b> 250 watts (B)*							<b>** NEX=</b> NEXUS® system interface (for 6V & 12V units only)
<b>RG24S=</b> 24 volts	<b>360=</b> 360 watts (B)*	<b>3=</b> three heads					<b>RRT=</b> remote test receiver	
	<b>360HP=</b> 360 watts (B)*						<b>TD=</b> time delay (programmable)	
	<b>144=</b> 144 watts (A)*						<b>TL=</b> Twistlock plug	
	<b>200=</b> 200 watts (B)*						<b>TMBB=</b> a.c./d.c. terminal block	
	<b>288=</b> 288 watts (B)*						<b>TMBD=</b> d.c. terminal block	
	<b>350=</b> 350 watts (C)*						<b>TMBK=</b> a.c. terminal block	
	<b>432=</b> 432 watts (C)*						<b>V=</b> Voltmeter	
<b>550=</b> 550 watts (C)*								
<b>720=</b> 720 watts (C)*								
<b>720HP=</b> 720 watts (C)*								

\* Cabinet size is not part of the ordering information.

\*\* Not all options available with NEXUS®. Please consult factory.

**EXAMPLE: RGS361DR11306W**

# RGS-TB Battery Unit

6, 12 and 24 volts T-Bar Units



## Fully recessed units for T-Bar mounting in suspended ceilings.

The **RGS-TB** Series battery units are designed for T-bar ceiling grid installation.

This slim-line, unobtrusive unit is ideally suited for any commercial location where there is limited wall space and where the greater directional flexibility of ceiling-mounted heads is needed to provide greater light distribution.

NEXUS



Made in Canada



## Features

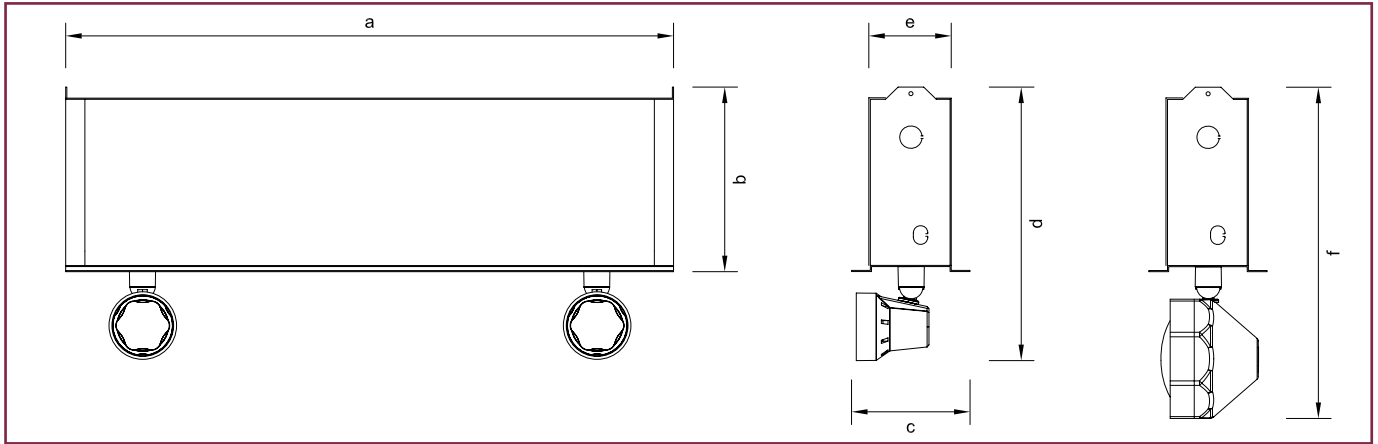
- Rugged steel cabinet with corrosion-resistant undercoating.
- Battery and charger are concealed above the ceiling level in the unit cabinet
- Removable panel provides easy access to battery and circuitry
- Test switch and LED indicators are mounted on the visible bottom panel
- Units mount quickly and easily in standard 2' x 2' or 2' x 4' grids without any additional hardware
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- Emergency lighting heads requiring no tools to adjust or aim.
- Standard 120/347Vac input voltage
- **NEXUS**<sup>®</sup> compatible (for more information on **NEXUS**<sup>®</sup>, please consult factory.)
- CSA C22.2 No. 141 certified

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



## RGS\*TB SERIES

### Dimensions



Cabinet	Dimensions					
	a	b	c	d	e	f
Large Cabinet	23 3/4 " (60.3 cm)	7 1/4 " (18.3 cm)	7 1/8 " (18.0 cm)	10 5/8 " (27.1 cm)	5 5/8 " (14.4 cm)	13 " (32.9 cm)
Small Cabinet	23 3/4 " (60.3 cm)	7 1/4 " (18.3 cm)	4 5/8 " (11.8 cm)	10 5/8 " (27.1 cm)	3 1/4 " (8.2 cm)	13 " (32.9 cm)

### Replacement Lamps

Ordering Code	Type	Voltage
570.0016-L	Mini tungsten (MT9W)	6V - 9W
570.0025-L	Mini tungsten (MT9W)	12V - 9W
570.0045-L	Mini tungsten (MT9W)	24V - 9W

For the complete list, please see the lamp chart on page 196 to 199.

Continue >>

# RGS-TB Battery Unit

6, 12 and 24 volts T-Bar Units



## Typical Specification

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

The Lumacell Smart Diagnostic Micro controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of \_\_\_\_\_ volts.

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

circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with sealed dust tight relay, a test switch and seven diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The unit shall be T-bar mounted and come complete with tool-less emergency lighting heads requiring no tools to adjust or aim.

The unit shall be Lumacell model:

\_\_\_\_\_.



**Single,  
regular head**



**Single,  
metal head**

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



## RGS\*TB SERIES

### Power Consumption and Unit Rating

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
RG36TB	120/347 Vac.	0.10/0.04 Amp	36	21	15	12	6
RG72TB		0.22/0.08 Amp	72	42	30	24	12
RG108TB		0.22/0.08 Amp	108	63	45	36	18
RG180TB		0.22/0.08 Amp	180	105	75	60	30
RG12S36TB		0.09/0.03 Amp	36	21	15	12	6
RG12S72TB		0.15/0.06 Amp	72	42	30	24	12
RG12S100TB		0.34/0.12 Amp	100	58	42	33	17
RG12S144TB		0.40/0.14 Amp	144	84	60	48	24
RG12S200TB		0.41/0.14 Amp	200	117	83	67	33
RG24S144TB		0.55/0.20 Amp	144	84	60	48	24
RG24S288TB		0.67/0.23 Amp	288	168	120	96	48

### Ordering Information

Series	Capacity Cabinet Size	Housing	# of heads	Head Style Lamp Wattage	Colour	AC Voltage	Options
<b>RGS=</b> 6 volts  <b>RG12S=</b> 12 volts  <b>RG24S=</b> 24 volts	<b>36=</b> 36 watts (P)* <b>72=</b> 72 watts (P)* <b>108=</b> 108 watts (P)* <b>180=</b> 180 watts (G)*  <b>36=</b> 36 watts (P)* <b>72=</b> 72 watts (P)* <b>100=</b> 100 watts (P)* <b>144=</b> 144 watts (P)* <b>200=</b> 200 watts (G)*  <b>144=</b> 144 watts (G)* <b>288=</b> 288 watts (G)*	<b>TB=</b> T-Bar	<b>Blank=</b> no head  <b>1=</b> one head  <b>2=</b> two heads  <b>3=</b> three heads	<b>MT9W=</b> mini-tungsten, 6V, 12V, 24V, 9W, wedge base <b>MT18W=</b> mini-tungsten, 12V, 24V, 18W, wedge base <b>MQ8W=</b> mini-halogen, 6V, 12V, 8W, quartz bi-pin <b>MQ12W=</b> mini-halogen, 6V, 12V, 12W, quartz bi-pin <b>LH9W=</b> tungsten, 6V, 12V, 24V, 9W, wedge base <b>LH18W=</b> tungsten, 12V, 24V, 18W, wedge base <b>LH25W=</b> tungsten, 6V, 12V, 24V, 25W, DCB <b>LHQ8W=</b> halogen, 6V, 12V, 8W, quartz bi-pin <b>LHQ12W=</b> halogen, 6V, 12V, 12W, quartz bi-pin <b>LHQ20W=</b> halogen, 6V, 12V, 24V, 20W, quartz bi-pin <b>LHQ55W=</b> halogen, 12V, 55W*, quartz bi-pin <b>LHQ70W=</b> halogen, 24V, 70W**, quartz bi-pin <b>MQM6W=</b> mini-halogen, 6V, 6W, MR16 <b>MQM10W=</b> mini-halogen, 6V, 10W, MR16 <b>MQM12W=</b> mini-halogen, 12V, 12W, MR16 <b>MQM20W=</b> mini-halogen, 12V, 20W, MR16 <b>SB9W=</b> tungsten, 6V, 9W, sealed beam <b>SB18W=</b> tungsten, 6V, 12V, 18W, sealed beam <b>SB25W=</b> tungsten, 6V, 12V, 25W, sealed beam <b>QSB8W=</b> halogen, 6V, 12V, 8W, quartz sealed beam <b>QSB12W=</b> halogen, 6V, 12V, 12W, quartz sealed beam <b>QSB20W=</b> halogen, 6V, 20W, quartz sealed beam <b>DR13020W=</b> mini deco, halogen, 12V, 24V, 20W, MR16*** <b>DR13035W=</b> mini deco, halogen, 12V, 24V, 35W, MR16*** <b>DR13050W=</b> mini deco, halogen, 12V, 24V, 50W, MR16***	<b>Blank=</b> factory white <b>BK=</b> black <b>*PW=</b> polar white	<b>Blank=</b> 120/347 Vac input <b>ZB=</b> 240 Vac input <b>ZC=</b> 277 Vac input <b>ZE=</b> 220 Vac, 50 Hz input	<b>Blank=</b> no option <b>A=</b> ammeter <b>AT=</b> Auto-Test <b>ATN=</b> Auto-Test non-audible <b>CT=</b> cabtire <b>DPF6=</b> 6cct. fuse panel <b>LC=</b> line cord (120V only) <b>LD=</b> lamp disconnect <b>*NEX=</b> NEXUS® system interface (for 6V & 12V units only) <b>RRT=</b> remote test reciever <b>TD=</b> time delay <b>TL=</b> Twistlock plug <b>TMBB=</b> a.c./d.c. terminal block <b>TMBD=</b> d.c. terminal block <b>TMBK=</b> a.c. terminal block <b>V=</b> voltmeter <b>**HHC=</b> remote test transmitter

\*Cabinet size is not part of the ordering information.

\* Aluminum heads only.  
 \*\* High temperature heads only.  
 \*\*\* Supplied with polar white or black cabinet only.

\*With DR head only.

\*Not all options available with NEXUS®. Contact your sales representative.  
 \*\*One per order.

### EXAMPLE: RGS36TBMT9W

# Q-BIC RGS-QB Battery Unit

6, 12 and 24 volts, thermoplastic cube units



## Features

- Impact-resistant steel center cabinet contains the battery and charger
- Frosted, thermoplastic light cubes protect light modules against vandalism while providing visual masking and light diffusion
- Units can be wall or ceiling mounted
- Choice of lamps include mini tungsten wedge base, mini halogen quartz bi-pin and halogen MR16
- Maintenance-free, sealed lead calcium battery
- 120/347Vac standard input
- Fully automatic, solid-state charger with low voltage battery disconnect, brownout protection, integral test switch and LED AC-On pilot lights
- Also available as a remote fixture; see Remote Fixtures section of this catalogue
- CSA C22.2 No. 141 certified

NEXUS



Made in Canada



## Typical Specification

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

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

The unit shall have an output of \_\_\_\_\_ volts.

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

The unit shall be furnished with an electronic lockout

circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency heads when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with a sealed, dust-tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC -"ON", Charger High Rate. The unit shall come complete with fully adjustable 12V or 24V/12 watts or 20 watts quartz halogen lamps. Each lamp shall be housed in an impact-resistant polycarbonate cube. The cube lens shall be frosted to diffuse light.

The unit shall be Lumacell model:

\_\_\_\_\_.

## In the same family...



**SURFACE MOUNTED**

Remote Fixture

p. 182 - 183

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

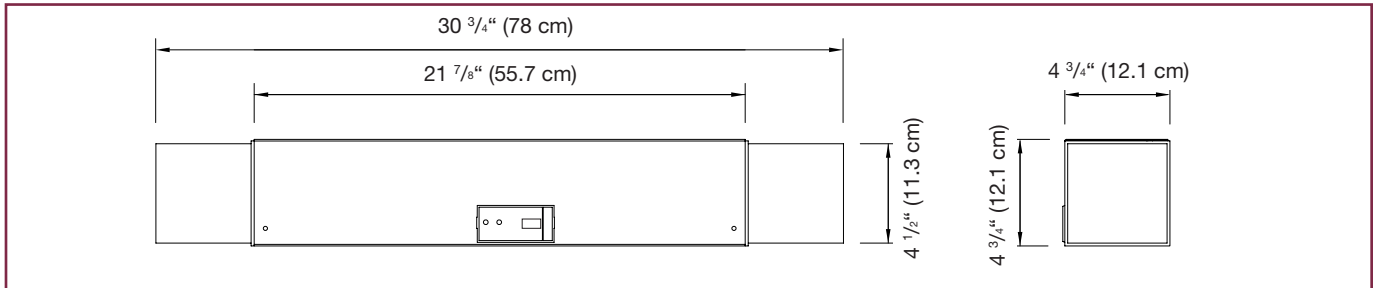


## Wire Guard

460.0097-L Wall or Ceiling Mount

## Q\*BIC SERIES

### Dimensions



### Power Consumption and Unit Rating

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
RG36QB	120/347 Vac	0.10/0.04 Amp	36	21	15	12	6
RG72QB		0.22/0.08 Amp	72	42	30	24	12
RG108QB		0.22/0.08 Amp	108	63	45	36	18
RG180QB		0.22/0.08 Amp	180	105	75	60	30
RG1236QB		0.10/0.04 Amp	36	21	15	12	6
RG1272QB		0.15/0.06 Amp	72	42	30	24	12
RG12144QB		0.41/0.14 Amp	144	84	60	48	24
RG12200QB		0.41/0.14 Amp	200	117	83	67	33
RG24144QB		0.55/0.20 Amp	144	84	60	48	24
RG24288QB		0.67/0.23 Amp	288	168	120	96	48

### Replacement Lamps

Ordering Code	Lamp Type	Voltage
570.0016-L	Mini tungsten	6V - 9W
570.0025-L	Mini tungsten	12V - 9W
570.0045-L	Mini tungsten	24V - 9W

For the complete list, please see the lamp chart on page 196 to 199.

### Ordering Information

Series	Capacity	Housing	AC Voltage	# of Lamps	Lamp style/Wattage	Options
RG= 6 volts	36= 36 watts	QB= Q-Bic	Blank= 120/347 Vac input	2= two lamps	9W= mini tungsten, 6V, 12V, 24V, 9W, wedge base	Blank= no options AT= Auto-Test *ATN= Auto-Test non-audible CT= cabtire LC= line cord (120V only.) LD= lamp disconnect **RRT= remote test receiver TD= time delay TL= twistlock plug TMBK= ac terminal bloc TP= tamper-proof screws ***HHC= remote test transmitter ***990.0119-L= tamper-proof bit NEX= NEXUS® system interface
	72= 72 watts				18W= mini tungsten, 12V, 24V, 18W, wedge base	
	108= 108 watts				8W= mini halogen, 6V, 12V, 8W, quartz bi-pin	
RG12= 12 volts	180= 180 watts		ZC= 240 Vac input		12W= mini halogen, 6V, 12V, 12W, quartz bi-pin	**Remote transmitter needed. ***One per order
	36= 36 watts				20W= mini halogen, 6V, 12V, 24V, 20W, quartz bi-pin	
	72= 72 watts				M6W= mini halogen, 6V, 6W, MR16	
RG24= 24 volts	144= 144 watts		ZE= 220 Vac, 50 Hz input		M10W= mini halogen, 6V, 10W, MR16	
	200= 200 watts				M12W= mini halogen, 12V, 12W, MR16	
	144= 144 watts				M20W= mini halogen, 12V, 24V, 20W, MR16	
	288= 288 watts				M35W= mini halogen, 12V, 24V, 35W, MR16	
					M50W= mini halogen, 12V, 24V, 50W, MR16	

**EXAMPLE: RG36QB29W**

# IPL Unit

## IP65 linear fluorescent fixture



### Features

- IP65 rated
- Polycarbonate enclosure and lens, vandal resistant and UV stabilized
- Rust-proof hardware
- Ceiling, surface or pendant mounting
- Low profile, less than 4" deep
- Ultra efficient specular reflector with optimized shape
- 32W T8 or 54W T5HO
- 90 minutes of emergency operation when installed with our RSFSP or AM inverters
- Emergency operation from external low voltage DC power source when installed with our RSF Series inverters
- Certified for AC or DC, 120Voperation
- High efficiency and reliable electronic ballast, instant start or 3-step programmed rapid start
- 120 Vac to 277 Vac universal and 347 Vac input voltage available
- CSA certified to CAN/CSA-E60598-1:02
- Certified for wet and damp locations

### Typical Specification

Supply and install Lumacell IPL Series of fluorescent fixtures as specified. The luminaire shall operate from 120Vac to 277Vac and use high quality instant start or 3-step programmed rapide start high efficiency electronic ballasts.

The housing and lens shall be constructed of UV-stabilized industrial grade vandal-resistant polycarbonate. A durable formed gasket shall be provided between the enclosure and the lens and shall be designed specifically for hostile environments. The reflector shall be made of highly specular material and formed to maximize light output efficiency. All parts shall be corrosion resistant. A metal plate used to retain the ballast and reflector also serves to dissipate heat, therefore lengthening ballast life.

Lamps shall be as specified, either T8 or T5 HO linear

fluorescent lamps, 32W or 54W. The lamps shall not be supplied with the luminaire. Regular models shall operate equally in AC or DC voltage. Models with an inverter from the RSFSP/AM series and illuminate one or two lamps during emergency operation for at least 90 minutes upon AC failure. During power outage, dual voltage source (AC/DC) models with an inverter from RSF series, shall illuminate one lamp while the DC voltage is present.

The fixture shall be CSA approved and meet IP65 requirements.

The inverters of RSF Series shall be CSA approved.

The inverters of RSFSP/AM Series shall be CSA or cUL approved.

The fixture shall be Lumacell model:  
\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

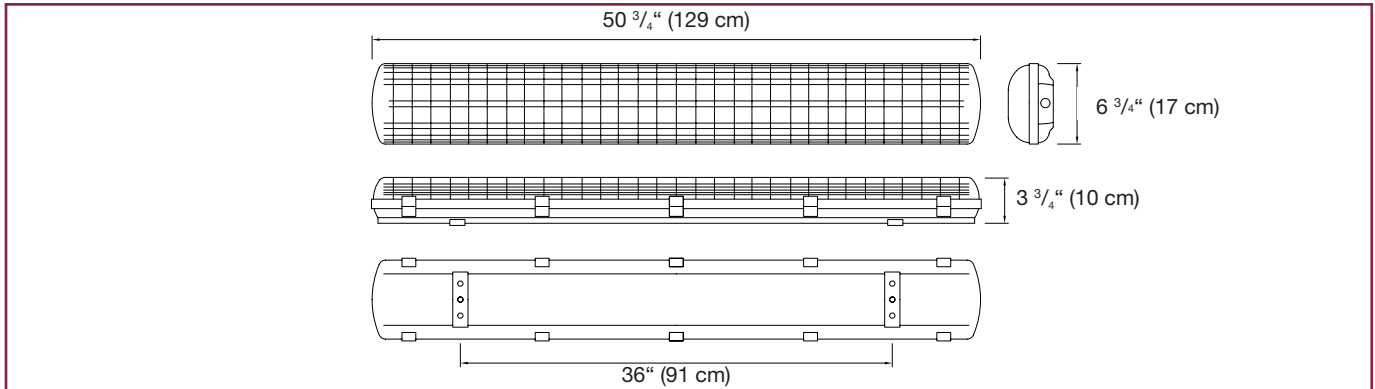


## Wire Guard

460.0105-L Wall or Ceiling Mount

## IPL SERIES

## Dimensions



## Power Consumption

Model	AC Specs		
<b>IPL8</b>	120/277 Vac	0.54/0.23 Amp	PF > 0.9
<b>IPL83</b>	347 Vac	0.19 Amp	PF > 0.9
<b>IPL5</b>	120/277 Vac	1.03/0.143 Amp	PF > 0.9
<b>IPL53</b>	347 Vac	0.35 Amp	PF > 0.9

## Ordering Information

Series	Lamp Type*	AC Voltage	Accessories	
<b>IPL=</b> 48" (122cm) linier fluorescent	<b>8=</b> 2x lamps 32 watts T8	<b>Blank=</b> AC only 120/277 Vac	<b>Blank=</b> no accessories	
			<b>Self-powered, one lamp emergency</b>	
	<b>5=</b> 2x lamps 54 watts T5HO**	<b>3=</b> AC only 347 Vca	<b>AM32-L=</b> inverter for IPL8 (complete code= IPL8AM32-L)	
			<b>RSFSP/U1100=</b> inverter for IPL83 (complete code= IPL8RSFSP/U1100)	
				<b>AM12=</b> inverter for IPL5 (complete code= IPL5AM12)
				<b>Self-powered, two lamps emergency</b>
				<b>AM7=</b> inverter for IPL8 (complete code= IPL8AM7)
				<b>RSFSP/U1100=</b> inverter for IPL83 (complete code= IPL8-3 RSFSP/U1100)
				<i>Two lamps model not available for T5 bulb (IPL5)</i>
				<b>AC/DC option, using a remote battery, one lamp only in emergency mode:</b>
				<b>RSF3200=</b> 6 volts, 120Vac
				<b>RSF3200ZD=</b> 6 volts, 347Vac
				<b>RSF123200=</b> 12 volts, 120Vac
				<b>RSF123200ZD=</b> 12 volts, 347Vac
			<b>RSF243200=</b> 24 volts, 120Vac	
			<b>RSF243200ZD=</b> 24 volts, 347Vac	
			<b>RSF323200=</b> 32 volts, 120Vac	
			<b>RSF323200ZD=</b> 32 volts, 347Vac	
			<b>RSF483200=</b> 48 volts, 120Vac	
			<b>RSF483200ZD=</b> 48 volts, 347Vac	
			<b>RSF1203200=</b> 120 volts, 120Vac	
			<b>RSF2103200ZD=</b> 120 volts, 347Vac.	
	*Lamps not included **Consult your sales representative for DC operation.		For more information on the RSF Series, please refer pages 156 to 157 in this catalogue.	

## EXAMPLE: IPL8

# SIPL Series

Sturdy construction, easy installation, wet location fluorescent fixture in 2' version



## Features

- Normally On fluorescent fixture
- IP65 rated
- Polycarbonate enclosure and lens, vandal resistant and UV stabilized
- Rust proof hardware
- Ceiling, surface or pendant mounting
- Low profile, less than 4" deep
- Ultra efficient specular reflector with optimized shape
- 17W T8 or 24W T5HO
- High efficiency and reliable electronic ballast by Osram
- 120Vac to 277Vac universal and 347Vac input voltage available
- CSA certified to CAN/CSA-E60598-1:02
- Certified for wet and damp locations
- Certified for AC or DC, 120V operations



## Typical Specification

Supply and install Lumacell SIPL Series of fluorescent fixtures as specified.

The luminaire shall operate from 120Vac to 277Vac or 347Vac and use high quality instant start or 3-step programmed rapid start high efficiency electronic ballasts.

The body and lens shall be constructed of UV stabilized industrial grade vandal resistant polycarbonate. A durable formed gasket shall be provided between the enclosure and the lens and shall be designed specifically for hostile environments. The reflector shall be made of highly specular material and formed to maximize light output efficiency. All parts shall be corrosion resistant. A metal plate used to retain the ballast and reflector also serves to dissipate heat, therefore lengthening ballast life.

Lamps shall be as specified, either T8 or T5 HO linear fluorescent lamps, 17W or 24W. The lamps shall not be supplied with the luminaire. Regular models shall operate equally in AC or DC voltage.

Models with an inverter from the RSFSP/AM series will illuminate one or two lamps during emergency operation for at least 90 minutes upon AC failure. During power outage, dual voltage source (AC/DC) models with an inverter from the RSF series, shall illuminate one lamp while the DC voltage is present.

The fixture shall be CSA approved and meet IP65 designation requirements. The inverters of RSF series shall be CSA approved. The inverters of the RSFSP/AM series shall be CSA or cUL approved.

The fixture shall be Lumacell Model:

---

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

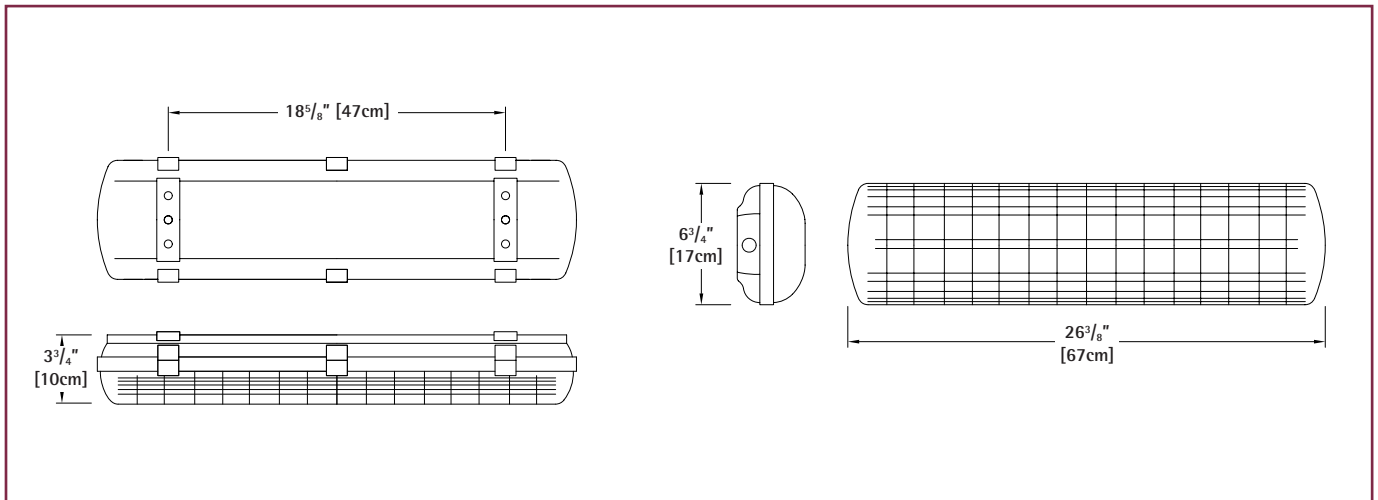


## Wire Guard

460.0106-L Wall or Ceiling Mount

# SIPL SERIES

## Dimensions



## Input Rating

Unit #	Input	Current
SIPL8	120 - 277/347Vac	0.47/0.20/0.1A
	120Vdc	0.3A
SIPL5	120- 277/347Vac	0.5/0.22A

## Ordering Information

Series	Lamp Type*	Voltage
SIPL= Vapour Proof 24"	<b>8=</b> 2 F17T8 17W T8 lamps <b>5=</b> 2 T5HO 24W T5 lamps**  <i>* Lamps not included</i> <i>** Consult your sales representative for DC operation</i>	<b>Blank=</b> 120/277Vac/Vdc <b>3=</b> Ac only 347Vac

**EXAMPLE: SIPL8**

# SIGNATURE Recessed Pot-Lites

## Decorative Recessed Fixture



### Features

- Durable, powder-coated or electro plated die-cast construction
- Maintenance-free, sealed nickel cadmium battery has a life expectancy of five years
- Quick disconnect feature for easy trim installation; easy to access for maintenance
- Fully automatic, solid-state Pulse-Guard charger with low voltage battery disconnect, brownout protection, integral test switch and long-life LED AC-On pilot lights
- Charger is designed for NiCad continuous trickle charge and is reverse polarity protected
- 120/347Vac standard input
- CSA C22.2 No. 141 certified



### Typical Specification

#### Recessed heads and housings:

The contractor will supply and install Lumacell Signature Collection™ internally self-powered series. The unit will have a dual input 120/347Vac 60Hz. Recessed heads will be constructed of a durable powder coated, or electro plated die cast aluminum construction and use MR16 halogen light sources and a 5 year NiCad battery.

The recessed head will be adjustable to 0-90° vertical and 0-350° horizontal angle. The light source will be 6 volts 6 watts MR16 halogen narrow beam or otherwise specified. The unit shall be equipped with a sealed, high-temperature Ni-Cad battery which will supply the emergency lamp for minimum 30 minutes of illumination in case of power failure.

The unit shall be Lumacell model:

\_\_\_\_\_.

### In the same family...



#### SIGNATURE RSTH

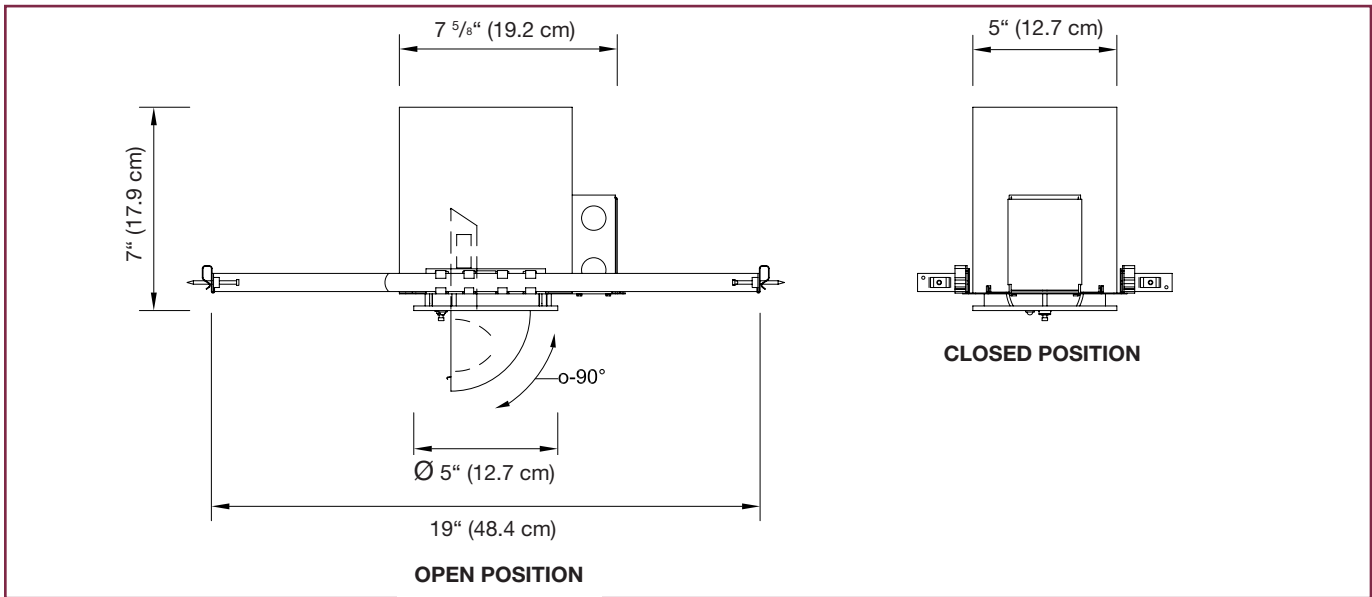
Remote Fixture p. 186 - 187

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



## SIGNATURE SERIES

### Dimensions



### Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity				
			30min	1h00	1h30	2h00	4h00
<b>RSTH24</b>	120/347 Vac	0.08/0.03 Amp	10	-	6	-	-

### Replacement Lamps

Ordering Code	Lamp Type	Voltage-Wattage
580.0074-L	MR16	6V-6W
580.0079-L	MR16	6V-10W

### Ordering Information

Series	Colour	Standard	Lamp Wattage
<b>RSTH24</b>	<b>WH</b> = white	<b>SP-C</b> = self-powered	<b>Blank</b> = 6 watts, MR16 <b>-10</b> = 10 watts, MR16
	<b>BK</b> = black		
	<b>BN</b> = brushed nickel		
	<b>CH</b> = chrome		
	<b>PB</b> = polished brass		

**EXAMPLE: RSTH24WHSP-C**

# NITE OWL Battery Unit

## Thermoplastic



### Features

- Injection-molded thermoplastic housing
- Innovative, snap together design allows for fast installation
- Replaceable lead-calcium ( 6v 4.5AH ) battery
- Universal 120/347 AC input
- Two adjustable glare free light heads
- Uses halogen MR16 lamps with front glass cover
- CSA C22.2 No. 141 certified
- Test switch and charge rate indicators
- Standard model comes with two 5.4 watts MR16 heads
- Emergency mode: min. 90 minutes



### Typical Specification

The Contractor will install the Lumacell NH362MH Battery unit. The emergency lighting system shall consist of fully automatic equipment with 2 MR16 glare free halogen heads. Each unit shall contain a fully automatic, solid state charger with test switch and AC on pilot lights.

The unit shall contain a sealed transfer circuit and low voltage disconnect circuit. The battery shall be 6 volts with a capacity of 29 watts for 30 minutes.

The unit shall be CSA C22.2 no 141.

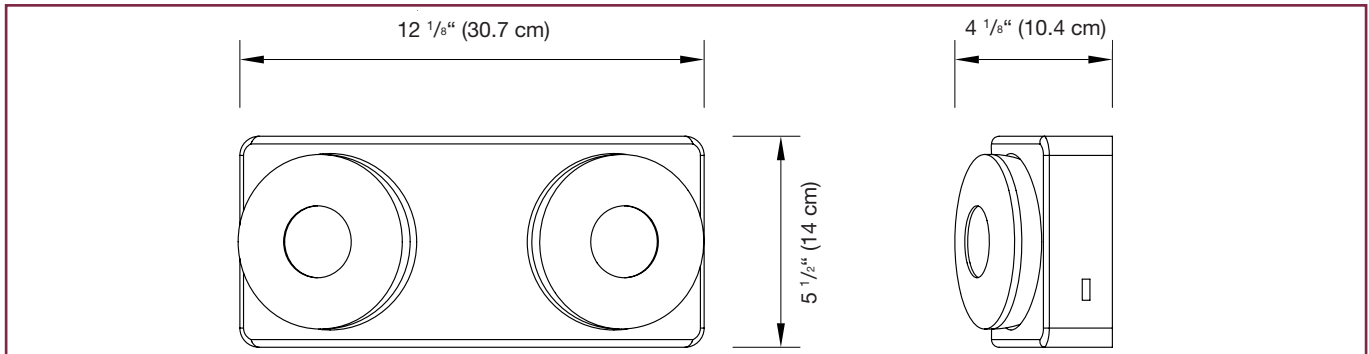
The unit shall be Lumacell model:  
\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



## NITE OWL SERIES

### Dimensions



### Wire Guard

460.0100-L Wall or Ceiling Mount

### Power Consumption and Unit Rating

Model	AC Specs			DC Specs	
<b>NH362MH</b>	120/347V a.c.	0.06/0.03 Amp	Less than 6W	6V - 10.8W	Min. 90 minutes
<b>NH362MH-10W</b>	120/347V a.c.	0.06/0.03 Amp	Less than 6W	6V - 20W	Min. 30 minutes

### Replacement Lamps

Ordering Code	Lamp Type	Voltage-Wattage
580.0072-L	MR16	6V-5W
580.0079-L	MR16	6V-10W

### Ordering Information

Series	Unit Capacity	AC Voltage	# of Lamps/Type	Options
<b>NH</b>	<b>36=</b> 6V - 29W	<b>Blank=</b> 120/347 Vac	<b>2MH=</b> two 5.4 watts MR16 lamps (standard)	<b>Blank=</b> no options <b>-10W=</b> 10Watts MR16 lamps

**EXAMPLE: NH362MH**

# PRISM Battery Unit

Rapid installation, decorative thermoplastic



## Features

- Impact-resistant thermoplastic construction
- Pre-wired AC Quick connect plug for fast and easy installation
- Wall or ceiling mount
- 6 volts, 7.2 watts high-intensity, wedge-based lamps
- 120Vac standard input
- Fully automatic, solid-state charger with low voltage battery disconnect, brownout protection, integral test switch and long-life LED AC-On pilot lights
- Instantaneous transfer
- Maintenance-free, sealed lead calcium battery with life expectancy of 5 years
- CSA C22.2 No. 141 certified



## Typical Specification

The contractor will install the Lumacell Prism™ RZ Series battery unit. The emergency lighting system shall consist of fully automatic equipment with two 7.2 watts emergency lighting lamps. Each unit shall contain a fully automatic, solid-state charger with test switch and AC-on pilot lights.

The unit shall contain a sealed transfer circuit and low-voltage disconnect circuit. The battery shall be 6 volts with design life of 5 years with a capacity of \_\_\_ watts for 30 minutes. The unit shall be CSA C22.2 no 141.

The unit shall be Lumacell model:

\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

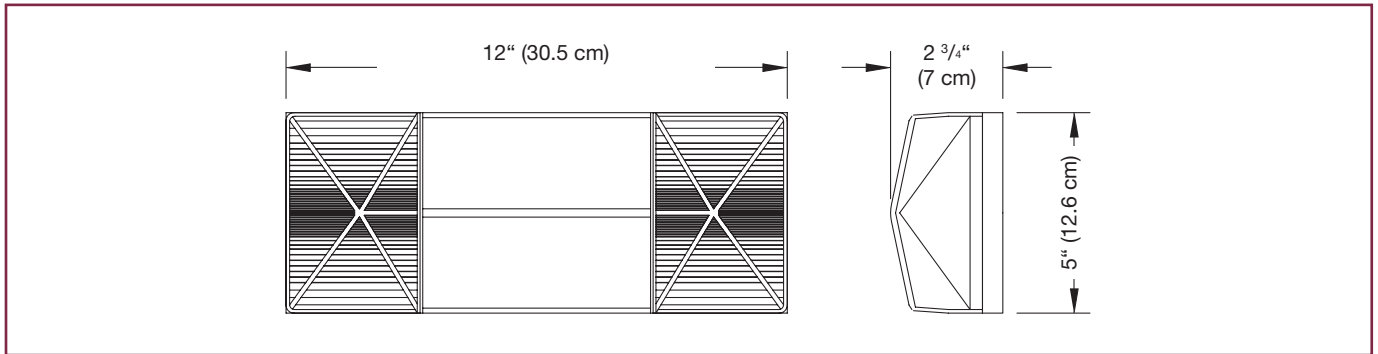


## Wire Guard

# PRISM RZ SERIES

460.0100-L Wall or Ceiling Mount

## Dimensions



## Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity				
			30min	1h00	1h30	2h00	4h00
<b>RZ4</b>	120/347 Vac	0,06/0.02 Amp	18	10	7	6	-
			29	17	12	10	-

## Replacement Lamp

Ordering Code	Lamp Type	Voltage-Wattage
570.0012	Tungsten, wedge base	6V - 5.4W

## Ordering Information

Series	Unit Capacity	AC Voltage	Options
<b>RZ4</b>	<b>6V=</b> 6V - 29W	<b>Blank=</b> 120/347 Vac	<b>Blank=</b> no options <b>LC=</b> line cord (120V only) <b>VR=</b> vandal resistant screws <b>990.0119-L=</b> tamper proof bit*
			*One bit needed per order.

**EXAMPLE: RZ46V**

# RGS-DT Battery Unit

6, 12 and 24 volts, NEMA-12 classified



## Harsh environment emergency lighting units steel, thermoplastic or fiberglass cabinets

The **RGS-DT** Series battery units are specifically designed for use in industrial facilities where equipment is exposed to dust, water, oil or corrosive substances. NEMA-12 classified to protect circuitry from harmful dust or liquid sprays, sealed and gasketed unit cabinets are available in steel, thermoplastic or fiberglass in a variety of sizes.

NEXUS



Made in Canada



## Features

- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free sealed lead acid battery
- Wide range of lampheads available  
Consult Ordering Information for complete list
- Standard 120/347Vac input voltage with line cord kit
- **NEXUS**<sup>®</sup> compatible (for more information on **NEXUS**<sup>®</sup>, please consult the factory)
- CSA C22.2 No. 141 certified

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

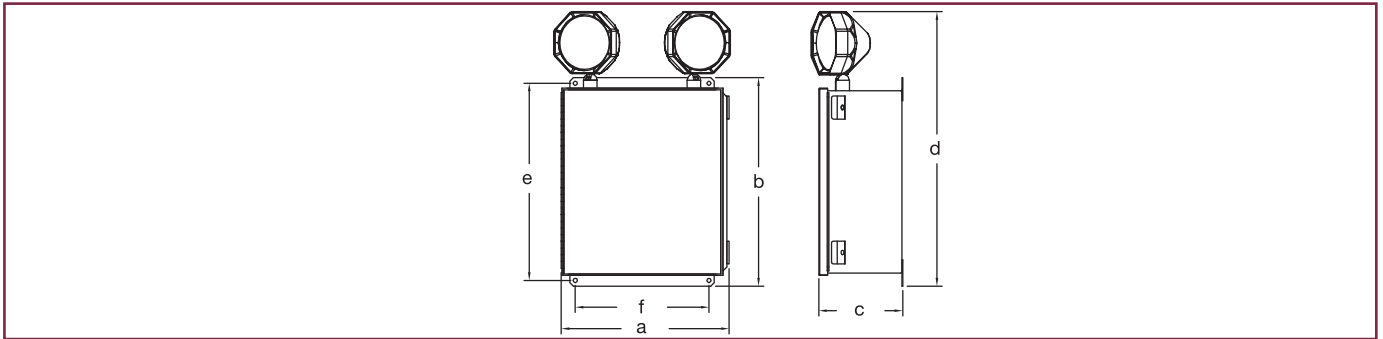


# RGS\*DT SERIES

## Wire Guard

460.0034-L Wall Mount

## Dimensions



Cabinet	Dimensions					
	a	b	c	d	e	f
<b>Thermoplastic Cabinet – size 1</b>	11 5/8 " (29.5 cm)	13 " (32.9 cm)	5 " (12.7 cm)	18 1/4 " (46.4 cm)	13 3/4 " (35.0 cm)	8 " (20.3 cm)
<b>Fiberglass Cabinet – size 2</b>	11 3/8 " (29.0 cm)	13 1/2 " (34.4 cm)	5 1/4 " (13.2 cm)	18 7/8 " (47.9 cm)	13 1/2 " (34.3 cm)	8 1/8 " (20.5 cm)
<b>Fiberglass Cabinet – size 3</b>	13 1/2 " (34.3 cm)	15 1/2 " (39.4 cm)	6 1/4 " (15.9 cm)	20 7/8 " (52.9 cm)	-	-
<b>Fiberglass Cabinet – size 4</b>	17 5/8 " (44.7 cm)	19 5/8 " (49.8 cm)	8 7/8 " (22.4 cm)	25 " (63.5 cm)	-	-
<b>Steel Cabinet – size 5</b>	10 3/4 " (27.4 cm)	13 7/16 " (34.1 cm)	5 1/4 " (13.4 cm)	18 1/2 " (47.1 cm)	12 5/8 " (32.0 cm)	9 " (22.7 cm)
<b>Steel Cabinet – size 6</b>	12 1/2 " (31.9 cm)	15 5/8 " (39.6 cm)	6 1/4 " (15.9 cm)	20 1/2 " (52.1 cm)	14 3/4 " (17.5 cm)	10 " (25.4 cm)

## Replacement Lamps

Model	Lampe Type	Voltage
570.0016-L	Tungsten (LH9W)	6V - 9W
570.0025-L	Tungsten (LH9W)	12V - 9W
570.0045-L	Tungsten (LH9W)	24V - 9W

Continue >>

# RGS-DT Battery Unit

6, 12 and 24 volts, NEMA-12 classified



## Typical Specification

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

The Lumacell Smart Diagnostic Micro controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of \_\_\_\_\_ volts.

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

circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with sealed dust tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate.

The unit shall be Lumacell model:

\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



## Power Consumption and Unit Rating **RGS\*DT SERIES**

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
<b>RGS36DT</b>	120/347 Vac	0.10/0.04 Amp	36	21	15	12	6
<b>RGS72DT</b>		0.22/0.08 Amp	72	42	30	24	12
<b>RGS108DT</b>		0.22/0.08 Amp	108	63	45	36	18
<b>RGS180DT</b>		0.22/0.08 Amp	180	105	75	60	30
<b>RG12S36DT</b>		0.09/0.03 Amp	36	21	15	12	6
<b>RG12S72DT</b>		0.15/0.06 Amp	72	42	30	24	12
<b>RG12S100DT</b>		0.34/0.12 Amp	100	58	42	33	17
<b>RG12S144DT</b>		0.40/0.14 Amp	144	84	60	48	24
<b>RG12S200DT</b>		0.41/0.14 Amp	200	117	83	67	33
<b>RG12S220DT</b>		0.41/0.14 Amp	220	120	90	72	36
<b>RG12S250DT</b>		0.41/0.14 Amp	250	144	100	83	42
<b>RG12S360DT</b>		0.43/0.15 Amp	360	210	150	120	60
<b>RG24S144DT</b>		0.55/0.20 Amp	144	84	60	48	24
<b>RG24S288DT</b>		0.67/0.23 Amp	288	168	120	96	48
<b>RG24S350DT</b>		0.67/0.23 Amp	350	200	144	120	60
<b>RG24S432DT</b>		0.67/0.23 Amp	432	250	180	144	72
<b>RG24S550DT</b>		0.88/0.33 Amp	550	320	230	180	90
<b>RG24S720DT</b>		0.88/0.33 Amp	720	420	300	240	120

## Ordering Information

Series	Capacity	Housing	# of Heads	Head Style/ Lamp Wattage	A.C. Voltage	Options
<b>RGS= 6V</b>	<b>36=</b> 36 watts	<b>DT=</b> metal	<b>Blank=</b> no head	<b>LH9W=</b> large tungsten, 6V, 12V, 24V - 9 watts, wedge base	<b>Blank=</b> 120/347Vac input <b>ZB=</b> 240Vac input <b>ZC=</b> 277Vac input <b>ZE=</b> 220Vac, 50hz input	<b>A=</b> ammeter
	<b>72=</b> 72 watts	<b>DTF=</b>	<b>1=</b> one head	<b>LH18W=</b> large tungsten, 12V, 24V - 18 watts, wedge base		<b>AT=</b> autotest
	<b>108=</b> 108 watts	thermoplastic	<b>2=</b> two heads	<b>LH25W=</b> large tungsten, 6V, 12V, 24V - 25 watts, DCB		<b>CT=</b> cabtire
	<b>180=</b> 180 watts	<b>DTFG=</b> fiberglass		<b>LHQ8W=</b> large halogen, 6V, 12V - 8 watts, quartz bi-pin		<b>DPF6=</b> 6cct. fuse panel
<b>RG12S= 12V</b>	<b>36=</b> 36 watts			<b>LHQ12W=</b> large halogen, 6V, 12V - 12 watts, quartz bi-pin	<b>ZE=</b> 220Vac, 50hz input	<b>HHC=</b> remote test transmitter*
	<b>72=</b> 72 watts			<b>LHQ20W=</b> large halogen, 6V, 12V, 24V - 20 watts, quartz bi-pin		<b>HTR=</b> heater & thermostat
	<b>100=</b> 100 watts			<b>LHQ55W=</b> large halogen, 12V - 55 watts, quartz bi-pin		<b>LC=</b> line cord
	<b>144=</b> 144 watts			<b>LHQ70W=</b> large halogen, 24V - 70 watts, quartz bi-pin		<b>LD=</b> lamp disconnect
	<b>200=</b> 200 watts			<b>SB9W=</b> large tungsten, 6V - 9 watts, sealed beam		<b>LTS=</b> light activated test switch
	<b>250=</b> 250 watts			<b>SB18W=</b> large tungsten, 6V, 12V - 18 watts, sealed beam		<b>NEX=</b> NEXUS system interface (6 & 12V only)
	<b>360=</b> 360 watts			<b>SB25W=</b> large tungsten, 6V, 12V, - 25 watts, sealed beam		<b>RRT=</b> remote test receiver**
<b>RG24S= 24V</b>	<b>144=</b> 144 watts			<b>QSB8W=</b> large halogen, 6V, 12V - 8 watts, quartz sealed beam	<b>TC=</b> teflon coated lens <b>TD=</b> time delay (programmable) <b>TL=</b> twist lock plug <b>TMBB=</b> AC/DC terminal block <b>TMBD=</b> DC terminal block <b>TMBK=</b> AC terminal block <b>V=</b> voltmeter * One per order. ** Remote test transmitter needed.	
	<b>288=</b> 288 watts			<b>QSB12W=</b> large halogen, 6V, 12V - 12 watts, quartz sealed beam		
	<b>350=</b> 350 watts			<b>QSB20W=</b> large halogen, 6V - 20 watts, quartz sealed beam		
	<b>432=</b> 432 watts			<b>RB9W=</b> large rubber tungsten, 6V, - 9 watts, sealed beam		
	<b>550=</b> 550 watts			<b>RB18W=</b> large rubber tungsten, 6V, 12V - 18 watts, sealed beam		
	<b>720=</b> 720 watts			<b>RB25W=</b> largerubber tungsten, 6V, 12V, - 25 watts, sealed beam		
				<b>RBQ8W=</b> large rubber halogen, 6V, 12V - 8 watts, quartz sealed beam		
				<b>RBQ12W=</b> large rubber halogen, 6V, 12V - 12 watts, quartz sealed beam		
				<b>RBQ20W=</b> large rubber halogen, 6V - 20 watts, quartz sealed beam		

**EXAMPLE: RGS36DTLH9W**

# RG\*HZ Series

## Hazardous Locations Battery Unit



### Features

- Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M19811
- Certified Class I Zone 2, Group IIA, B and C
- Certified temperature Codes for several types of emergency lamps
- Suited for areas with the risk of flammable gases, vapors or liquids that can create an explosive atmosphere
- Certified CSA C22.2 No141
- Polymeric frame, with built-in gasket to prevent water infiltration
- Heavy-duty 1/8-inch thick aluminum back plate with key-holes for secure wall-mount installation
- Two MR16 halogen lamps, shielded by a cast Aluminum housing and a polycarbonate cover
- Sealed, maintenance-free, Lead-Calcium batteries with up to 120W emergency power
- Built-in microcontroller-based battery charger and self-test/self-diagnostic circuitry
- 1/2-inch electrical conduit entry on both sides and at the top

NEXUS



Made in Canada



### Typical Specification

Supply and install Lumacell RG-HZ Series of battery units. Designed specifically for hostile environments, the equipment frame shall be of industrial grade polymeric metal with gaskets around both sides of the frame contour. The frame shall be fixed between two plates made of 1/8-inch thick aluminum sheet. The back plate shall include four keyholes for wall-mount installation. The front plate shall include two water-tight lenses for pilot lights: AC-on and "Service required". When specified, the equipment shall have attached a lower compartment containing two emergency lights with adjustable swivels and MR-16 halogen lamps. The lamps shall be shielded by cast aluminum housing and protected by a shock-absorbent, transparent polycarbonate cover.

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

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

The battery unit shall be Lumacell model:

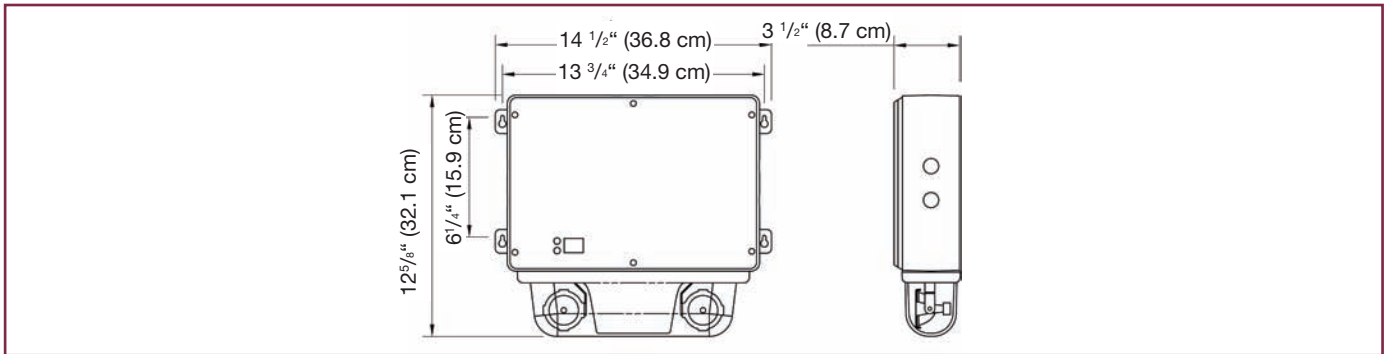
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Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



## RG\*HZ SERIES

### Dimensions



### Temperature Codes

Lamp Rating	Temperature Code	Max. Temperature	Replacement part #
<b>6V 10W</b>	T3C	160 °C	580.0079
<b>12V 12W</b>	T3A	180 °C	580.0080
<b>12V 20W</b>	T2D	215 °C	580.0068

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

### Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity				
			30 min.	1 hr.	1.5 hrs.	2 hrs.	4 hrs.
<b>RGHZ36</b>	120/347 Vac	0.15/0.06 Amp	36	21	15	12	-
<b>RG12HZ72</b>	120/347 Vac	0.30/0.10 Amp	72	42	30	24	12
<b>RG12HZ120</b>	120/347 Vac	0.30/0.10 Amp	120	70	50	40	20

### Ordering Information

Series	Capacity	# of Heads	Lamps	Colour	A.C. Voltage	Options
<b>RGHZ=</b> 6 volts	<b>36=</b> 6V-36W <b>72=</b> 12V-72W	<b>Blank=</b> no heads	<b>M10W=</b> 6V - 10W, MR16	<b>Blank=</b> grey, standard	<b>Blank=</b> 120/347vac <b>ZC=</b> 277vac	<b>AT=</b> auto test, audible
<b>RG12HZ=</b> 12 volts	<b>120=</b> 12V-120W	<b>2=</b> 2 heads	<b>M12W=</b> 12V - 12W, MR16 <b>M20W=</b> 12V - 20W, MR16 high output			<b>ATN=</b> auto Test, non-audible <b>** NEX=</b> NEXUS® system interface

**EXAMPLE: RGHZ362M10WATN**

# RGSW4T Battery Unit

6 and 12 volts, NEMA-4X classified



## Features

- Fully gasketed fiberglass cabinet with clear polycarbonate cover
- Solid-state pulse-type charger - current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator light(s)
- Long-life, maintenance-free sealed lead acid battery
- Standard 120/347 Vac input voltage with line cord kit
- CSA C22.2 N°141 certified

NEXUS



Made in Canada



## Typical Specification

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

The Lumacell Smart Diagnostic Micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87,5% of the rated battery voltage. The unit shall be rated dual input voltage 120/347V, 60 Hz and be CSA listed. The unit shall have an output of volts.

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

The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the battery from the fused output circuit at the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes on the 6th month and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with sealed dust tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The unit shall be NEMA-4X and suited for water, oil and dust tight applications.

The unit shall be Lumacell model:

\_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		

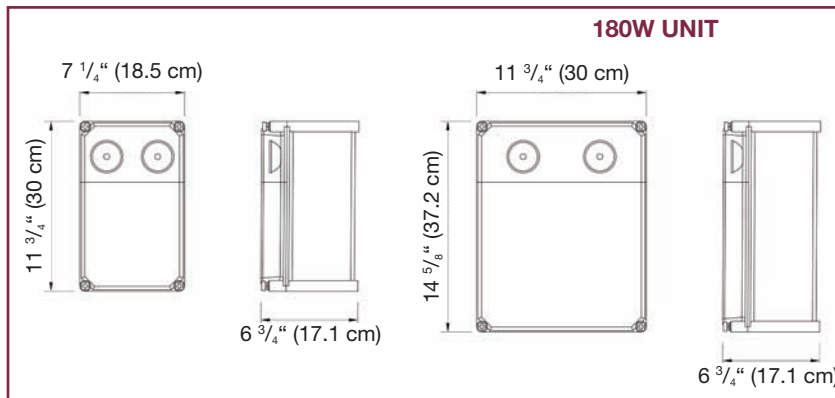


## Wire Guards

460.0082-L	Wall Mount	Small Cabinet
460.0081-L	Wall Mount	Medium and Large Cabinet

## RGSW4T SERIES

## Dimensions



## Replacement Lamps

Model	Lamp Type	Voltage
570.0016-L	Tungsten	6V - 72W
580.0013-L	Halogen bi-pin	6V - 8W
580.0015-L	Halogen bi-pin	12V - 12W

## Power Consumption and Unit Rating

Model	AC Specs	Wattage Capacity					
		30min	1h00	1h30	2h00	4h00	
<b>RG36W4T</b>	120/347 Vac	0.10/0.04 Amp	36	21	15	12	6
<b>RG72W4T</b>		0.22/0.08 Amp	72	42	30	24	12
<b>RG108W4T</b>		0.22/0.08 Amp	108	63	45	36	18
<b>RG180W4T</b>		0.22/0.08 Amp	180	105	75	60	30
<b>RG12S36W4T</b>		0.09/0.03 Amp	36	21	15	12	6
<b>RG12S72W4T</b>		0.15/0.06 Amp	72	42	30	24	12
<b>RG12S144W4T</b>		0.40/0.14 Amp	144	84	60	48	24
<b>RG12S180TB</b>		0.80/0.33 Amp	180	105	75	60	30

## Ordering Information

Series	Capacity	Housing	# of heads	Style/Wattage	AC Voltage	Options
<b>RG6S=</b> 6 volts	<b>36=</b> 36 watts	<b>W4T=</b> NEMA-4X	<b>2=</b> two heads	<b>9W=</b> mini tungsten, 6V, 12V, 9W, wedge base	<b>Blank=</b> 120/347 Vac input <b>ZC=</b> 277 Vac input	<b>AT=</b> Auto-Test
	<b>72=</b> 72 watts			<b>18W=</b> mini tungsten, 12V, 18W, to wedge base		<b>CT=</b> cabtire
	<b>108=</b> 108 watts <b>180=</b> 180 watts			<b>Q8W=</b> mini halogen, 6V, 12V, 8W, quartz bi-pin		<b>HTR=</b> heater & thermostat
<b>RG12S=</b> 12 volts	<b>36=</b> 36 watts			<b>Q12W=</b> mini halogen, 6V, 12V, 12W, quartz bi-pin		<b>LC=</b> line cord
	<b>72=</b> 72 watts			<b>Q20W=</b> mini halogen, 6V, 12V, 20W, quartz bi-pin		<b>LD=</b> lamp disconnect (internal)
	<b>144=</b> 144 watts					<b>LTS=</b> light activated test switch
	<b>180=</b> 180 watts					<b>*RRT=</b> remote test receiver
						<b>TD=</b> time delay
						<b>TL=</b> Twistlock plug
						<b>**HHC=</b> remote test transmitter

**EXAMPLE: RGS36W4T29WAT**

\* Remote test transmitter needed.  
 \*\*One per order.

# RSF & RSFSP

## Fluorescent inverters



### Features

- Converts new or existing fluorescent fixtures into emergency lighting units
- All RSFSP Series are fully load tested prior to shipment
- Inverter is 100% solid state, short and open circuit proof
- Polarized DC input (RSF Series only)
- 120Vac 60Hz input is standard, 277 and 347 Vac available as options
- 25%, 50% or 80% lamp lumen output
- Mounts directly in ballast channel, remote or optional T-Bar fixture
- CSA listed



### Typical Specification

**RSF Series:** The electrical contractor shall supply and install Lumacell RSF Series remote fluorescent inverter ballasts for each fixture as shown on plans. The inverter shall operate on \_\_\_Vdc input for \_\_\_ minutes during a power failure. The fluorescent lamp shall be maintained at \_\_\_% lumen output for one lamp only. The inverter is to be connected to the remote battery unit as shown on plans (battery unit to be selected according to voltage/wattage and duration required). The inverter shall be capable of illuminating the fluorescent lamp even when it is burned out under normal AC operation.

**RSFSP Series:** The electrical contractor shall supply and install Lumacell RSFSP Series fluorescent inverters for each fixture as shown on plans. The RSFSP Series inverter shall operate for \_\_\_ minutes during a power failure. The fluorescent lamp shall be maintained at \_\_\_% of nominal lumen output. The RSFSP Series inverter shall be capable of illuminating the fluorescent lamp even when it is out under normal AC operations.

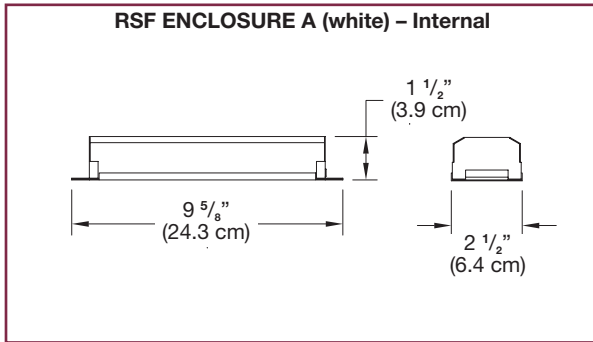
Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



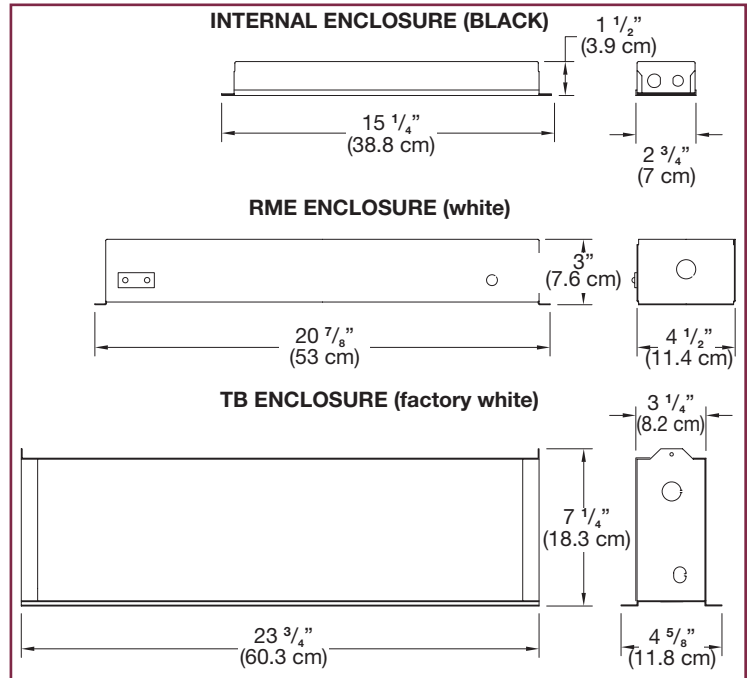
# RSF & RSFSP SERIES

## Dimensions

### RSF Series



### RSFSP Series



## Ordering Information

### RSF Series

Series	Lumens / (%) for 48" Tube	AC Voltage
<b>RSF</b> = 6 volts	<b>800</b> = 800 lumens (25%)	<b>Blank</b> = 120 Vac
<b>RSF12</b> = 12 volts	<b>1600</b> = 1600 lumens (50%)	<b>ZC</b> = 277 Vac
<b>RSF24</b> = 24 volts	<b>*3200</b> = 2560 lumens (80%)	<b>ZD</b> = 347 Vac
<b>RSF32</b> = 32 volts		
<b>RSF48</b> = 48 volts		
<b>RSF120</b> = 120 volts		

\*Not available in 6 volts .

## EXAMPLE: RSF800

### RSFSP Series

Series	Lumens / (%) for 48" Tube	Min. Runtime	Enclosure	AC Voltage
<b>RSFSP</b>	<b>800</b> = 800 lumens (25%)	<b>30</b> = 30 minutes	<b>*Blank</b> = internal	<b>Blank</b> = 120 Vac
	<b>1600</b> = 1600 lumens (50%)	<b>60</b> = 60 minutes	<b>RME</b> = remote mounting enclosure	<b>ZC</b> = 277 Vac
	<b>3200</b> = 2560 lumens (80%)	<b>90</b> = 90 minutes	<b>TB</b> = T-Bar	<b>ZD</b> = 347 Vac
		<b>*120</b> = 120 minutes		

\*RSFSP3200 in T-Bar cabinet only.      \*Not available for RSFSP3200.

## EXAMPLE: RSFSP80030

Lumens outputs based on averages.

24" / 20W= 1260

48" / 40W= 3200

96" / 75W= 6300

Inverters will operate T12, T8 or "U" type lamps.

# RSFSP/U/1100 Series

## Fluorescent inverters

Convert fluorescent fixtures into emergency lighting units.



### Features

- Converts new or existing fluorescent fixtures into emergency lighting units
- Each unit is fully computer tested and comes with a 3-year full warranty
- Self-contained in one compact housing for easy installation and maximum mounting flexibility
- Can be wired to operate with switched, unswitched and normally off fixtures without affecting normal operation
- Compatible with standard, energy saving, dimming and electronic AC ballasts
- Maintains operation of one or two lamps when switched to emergency mode
- When AC power is restored, automatically returns the fluorescent lamps to normal operating mode and solid state charger begins recharging the battery
- Sealed maintenance-free nickel cadmium batteries
- CSA listed



### Typical Specification

The contractor will supply and install Lumacell model RSFSP/U/1100 self-powered fluorescent emergency inverter as shown on plans. The fluorescent emergency inverter shall contain a charger, high frequency inverter, and sealed nickel cadmium battery designed for high-temperature operation. The unit shall be able to operate one or two fluorescent lamps and provide not less than

1100 lumens initial light output in emergency mode. The duration of emergency backup shall be at least 90 minutes. Standard input voltage shall be 120V/347Vac 60Hz.

The unit shall be Lumacell Model:  
RSFSP/U/1100 \_\_\_\_\_.

Project / Location		Date
Contractor		Prepared by
LUMACELL Model		



# RSFSP/U/1100

## Dimensions

Catalogue Number	Electrical Input	Dimensions			
		A	B	C	D
<b>RSFSP/U/1100</b>	120/347V 60 Hz 4W	13-3/8" (34.0 cm)	13" (33.0 cm)	2-3/8" (6.0 cm)	1-1/2" (3.8 cm)

## Lamp Operation

RSFSP Series should be used for Octron\* Power Groove\*, VHO and SHO lamps.

\*Octron is a registered trademark of Sylvania. \*Power Groove is a registered trademark of G.E.

Unit Type	Emergency Illumination Time	Lumens	Lamps Able to Operate	Lamps Operated
<b>RSFSP/U/1100</b>	90	1300 *	2	2 to 4 ' (20 to 40 W)**
	90	1300 *	1	2 to 4 ' (20 to 40 W)**

\*Depending on the number of lamps, wattage, and type of lamps selected:  
The RSFSP produces 1100 to 1300 lumens initial emergency light output.  
\*\* Voltage maximum: 40W ( 2 x 20W or 1 x 40W)

## Ordering Information

Series	Option
<b>RSFSP/U/1100</b> = 1100 lumens for 90 minutes 120/347Vac	<b>R</b> = external mounting kit

**EXAMPLE : RSFSP/U/1100**

# Glossary

A	<b>ammeter</b>	Used to measure the current being supplied to the battery while in charge mode.
AT	<b>Auto-Test</b>	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) and audible warning. Complies with Fire Code requirements.
ATN	<b>Auto-Test, non-audible</b>	Automatically tests and continuously monitors your emergency lighting unit. If a problem occurs, the unit will send a visual (flashing or blinking LED indicator) warning. Complies with Fire Code requirements.
CT	<b>Cab-tire</b>	Unit supplied with a cab-tire cable used for special hardwire applications.
CW1	<b>cold weather, 120Vac</b>	120Vac input cold weather protection feature for applications where temperatures can reach -40° C
CW3	<b>cold weather, 347Vac</b>	347Vac input cold weather protection feature for applications where temperatures can reach -40° C
DPF6	<b>6cct. Fuse panel</b>	Used to facilitate the connection of multiple input load circuits in high power battery units.
HHC	<b>remote test transmitter</b>	Used to perform maintenance tests by means of radio transmitter along with a radio receiver (RRT option) on battery units that are out of reach.
HTR	<b>heather &amp; thermostat</b>	Like a heatblanket, used to keep internal temperature optimal for battery units that are installed in cold environments.
LC	<b>line cord (120V)</b>	When ordering a battery unit with the LC option, we supply and pre-install a line cord with a standard 3 prong 120V plug. Just hang the fixture and plug it in to a standard receptacle! Only available on 120V units.
LD	<b>lamp disconnect</b>	To disconnect the emergency lighting load in an area that is not in use during a prolonged power failure or while area is no longer being occupied.
LS	<b>Laser</b>	Used to remotely test battery units by means of pointing a laser at the battery unit.
LTS	<b>light activated test switch</b>	Used to remotely test battery units by pointing a flashlight at a photocell mounted on the bottom of a battery unit.
TC	<b>teflon coated lens</b>	A protective teflon coating that is applied to the glass lens of a lighting fixture to prevent broken shards from falling in the event the glass is accidentally broken or vandalised.
RRT	<b>remote test receiver</b>	Used to perform maintenance tests by means of radio receiver in conjunction with a transmitter(HHC option) on battery units that are out of reach. Simply point the receiver at the unit.
NEX	<b>Nexus system interface</b>	The NEXUS system interface is a computerized maintenance system for emergency lighting that, once programmed, will perform the tests, keep written records and send notification if anything needs to be fixed. One full system can address hundreds of units in as many buildings as you need from a single location.
T3	<b>15 minutes time delay</b>	Normally, when the a.c. is restored, all emergency lighting lamps are turned off. However, in some cases such as when metal halide lamps are used, it is possible that the general lighting will not be available for several minutes after the blackout (or brownout) period. Battery units with the T3 option will keep some energy in store to ensure that the emergency lighting stays on or comes back on for at least 15 minutes once the regular a.c. power has been restored.
TD	<b>time delay (programmable)</b>	Same as the T3 option but can be programmed for 5, 10, 15 or 20 minutes delay.
TP	<b>tamper proof screws</b>	Screws that require a special bit. Can be used on certain units to deny access to unauthorized personnel.
TL	<b>twistlock plug</b>	Used to facilitate the connection and removal of battery units for maintenance purposes.
TMBB	<b>a.c./d.c. terminal block</b>	Used to facilitate the connection of large gauge input cables.
TMBD	<b>d.c. terminal block</b>	Used to facilitate the connection of large gauge d.c. input cables.
TMBK	<b>a.c. terminal block</b>	Used to facilitate the connection of large gauge a.c. input cables.
V	<b>voltmeter</b>	Indicates voltage being supplied to the battery when in charge mode.