



# GRANDE™ SERIES

Thermoplastic Housing  
6V up to 60W & 12V up to 72W Capacities  
Lead-Calcium or Nickel-Cadmium battery



## FEATURES

### Housing

- Injection-molded, UV stabilized Thermoplastic, snap-together design
- Corrosion and scratch-resistant, mist white finish or optional black
- Snap-on, shock absorbent, clear polycarbonate lens covers
- Two fully adjustable glare-free MR16 protected lighting heads

### Mounting

- Wall Mount, Ceiling Mount (optional)
- Universal knock-outs to mount to any standard 4" junction box

### Choice of Lamp Type

- Two MR16 Halogen lamps
- Two MR16 LED lamps

### Electronics

- Micro-controller based charging circuit
- Automatic, temperature compensated, pulse-type charger
- High capacity, automatic, dust-tight instantaneous transfer relay
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection is provided
- Battery lock-out prevents battery discharge during installation
- Fused output circuit

### Improved Diagnostics option

- Units equipped with Improved Diagnostics shall self-test, by simulating a power failure, in accordance with NFPA101, Life Safety Code one minute monthly, 30 minutes every six months and 90 minutes annually. For complete information refer to page 8.

### NEXUS® option

- Units equipped with NEXUS® self-testing monitoring system circuitry shall self-test, in accordance with NFPA101 Life Safety Code for a minimum of 30 seconds monthly, 30 minutes every six months and 90 minutes annually as well as keep a history of all testing logs, plus feature real-time diagnoses, and provide the exact fixture location while notifying service personnel of the status of the fixture via email. For complete information refer to page 4-5.

### Controls

- Green LED pilot light to indicate AC-ON
- Momentary test switch allows for quick operational check of entire system

### Choice of Sealed Maintenance-Free Battery

- 6V or 12V Lead-Calcium battery
- 6V or 12V Nickel-Cadmium battery

### Approvals

- UL 924 Standard
- UL 94, 5VA flame rated Thermoplastic housing
- Damp location listed (optional)

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

- Unit has a three year full warranty (excluding lamps and fuses)<sup>1</sup>
- Lead-Calcium battery has a three year full, plus three year pro-rata warranty
- Nickel-Cadmium battery has a five year full, plus five year pro-rata warranty

<sup>1</sup> For LED lamps warranty, refer to page 168 paragraph 3.2

## ACCESSORIES (Order as a separate item)

|                            |              |
|----------------------------|--------------|
| Wire Guard (Wall Mount)    | <b>WG1-L</b> |
| Wire Guard (Ceiling Mount) | <b>WG5-L</b> |

## SPECIFICATIONS

Supply and install Lightalarms® Grande™ Series.

The emergency lighting unit shall be a self-contained fixture including a sealed maintenance-free Lead-Calcium or Nickel-Cadmium battery of 6V or 12V, wattages as specified on the unit rating chart. The unit shall supply the rated wattage load for a minimum of 90 minutes to 87-1/2% of rated battery voltage. The unit shall be rated 120/277VAC, 60Hz and be UL 924 listed.

The unit charger shall utilize a micro-controller which samples the battery in relation to the ambient temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, and short-circuit 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 unit when utility power dips below 80-85% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches 87-1/2% of its nominal voltage. The unit shall be capable of full recharge in compliance with UL 924 specifications. The unit shall be furnished with sealed dust-tight relay, Green LED pilot light to indicate AC-ON and a momentary test switch allows for quick operational check of entire system.

The cabinet shall be injection-molded, with UV stabilized Thermoplastic body, snap together design and have a corrosion and scratch-resistant finish in a mist white or optional black color with two fully adjustable glare-free MR16 protected polycarbonate covered lighting heads.

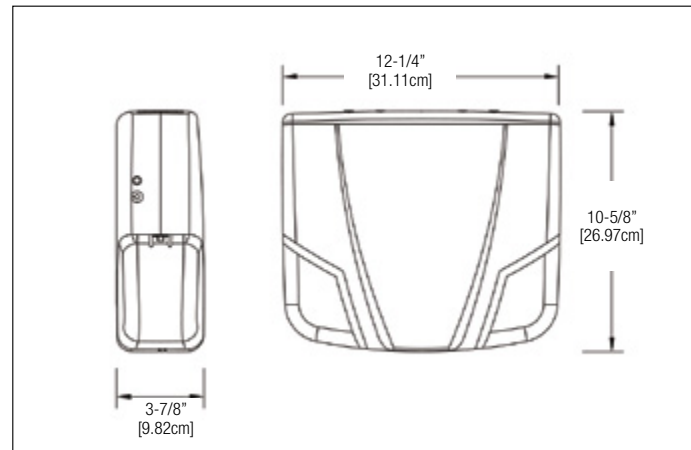
Units specified with Improved Diagnostics shall continuously monitor every critical function of the unit. If a malfunction occurs, if audible, a high-pitch audible alarm will sound and the green pilot indicator LED located on the unit will change to red and begin to a flash, indicating a fault. If non-audible, only the green pilot indicator LED located on the unit will change to red and begin to a flash, indicating a fault. A detailed diagnostic legend next to the pilot indicator LED provides fault identification as battery, charger circuitry or lamps failure. The micro-controller shall automatically self-test, by simulating a power failure in accordance with NFPA101 Life Safety Code for one minute monthly, monthly, 30 minutes every six months and 90 minutes annually

Every Grande™ Series unit shall be fully warranted for three years, subject to proper installation and maintenance.

Unit shall be Lightalarms® catalog number \_\_\_\_\_.

## DIMENSIONS

Dimensions are approximate and subject to change.



TYPE \_\_\_\_\_  
 CATALOG # \_\_\_\_\_  
 \_\_\_\_\_  
 NOTES \_\_\_\_\_  
 \_\_\_\_\_

Designed with aesthetics, ease of installation on wall or ceiling and performance in mind



### POWER CONSUMPTION / UNIT RATING CHART

| SERIES  | DC SPECS       |            |  |        |        |        | AC SPECS                        |                 |
|---------|----------------|------------|--|--------|--------|--------|---------------------------------|-----------------|
|         | BATTERY TYPE   | DC VOLTAGE | 87.5% BATTERY CAPACITY (IN WATTS) <sup>1</sup> |        |        |        | UNITS DUAL VOLTAGE <sup>2</sup> | CURRENT MAXIMUM |
|         |                |            | 90 MIN.  | 2 HRS. | 3 HRS. | 4 HRS. |                                 |                 |
| GRA1    | Lead-Calcium   | 6V         | 18   | 14     | 9      | 0      | 120VAC<br>277VAC                | .25A<br>.12A    |
| GRA3    |                | 6V         | 30   | 20     | 15     | 10     |                                 |                 |
| GRA6    |                | 6V         | 40   | 30     | 20     | 15     |                                 |                 |
| GR12A6  |                | 6V         | 60   | 40     | 30     | 20     |                                 |                 |
| GR12A7  |                | 6V         | 72   | 54     | 36     | 27     |                                 |                 |
| GRN2    | Nickel-Cadmium | 6V         | 20   | 15     | 10     | 8      | 120VAC<br>277VAC                | .2A<br>.1A      |
| GRN25   |                | 6V         | 25   | 18     | 12     | 9      |                                 |                 |
| GR12N4  |                | 6V         | 40   | 30     | 20     | 15     |                                 |                 |
| GR12N50 |                | 12V        | 50   | 36     | 24     | 18     |                                 |                 |

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

<sup>2</sup> All units 120/277 dual voltage, information based on wiring to specific voltage type

### ORDERING FORMAT

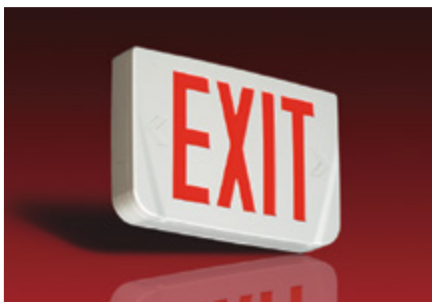
| # OF HEADS                      | SERIES/CAPACITY  | LAMP TYPE <sup>2</sup>  | HOUSING COLOR             | OPTIONS  |
|---------------------------------|--|---|---------------------------|--|
| Blank= No heads<br>2= Two heads | <b>Lead-Calcium battery</b><br>GRA1= 6V-18W<br>GRA3= 6V-30W<br>GRA6= 6V-60W <sup>1</sup><br>GR12A4= 12V-40W<br>GR12A6= 12V-60W<br>GR12A7= 12V-72W<br><br><b>Nickel-Cadmium battery</b><br>GRN2= 6V-20W<br>GRN25= 6V-25W <sup>1</sup><br>GR12N4= 12V-40W<br>GR12N50= 12V-50W <sup>1</sup> | <b>MR16 Halogen Lamp</b><br>M6= 6V-6W <sup>1</sup><br>M10= 6V or 12V-10W <sup>1</sup><br>M12= 12V-12W <sup>1</sup><br>M20= 12V-20W <sup>1</sup><br><br><b>MR16 LED Lamp</b><br>LD1= 6V-4W<br>LD7= 12V-4W<br>LD9= 12V-5W<br>LD10= 12V-6W | M= Mist White<br>B= Black | <b>Blank= No Options</b><br>-ID= Improved Diagnostics (audible) <sup>1</sup><br>-IDNA= Improved Diagnostics (non audible) <sup>1</sup><br>-NEX= Nexus® Wired Compatible <sup>2</sup><br>-NEXRF= Nexus® Wireless Compatible <sup>2</sup><br>-T1= Time Delay (5 minute)<br>-T2= Time Delay (10 minute)<br>-T3= Time Delay (15 minute)<br>-3CP= 120V Cord & Plug, 3 wire, 3ft long <sup>3</sup><br>-3CP277= 277V Cord & Plug, 3 wire, 3ft long <sup>3</sup><br>-DL= Damp Location <sup>4</sup> [50°F - 104°F (10°C - 40°C)]<br>-CM= Ceiling Mount<br>-PM= Pendant Mount |

<sup>1</sup> Not available with Damp location  
<sup>2</sup> No other lamp types available for this Series, for complete information on these lamp types refer to page 101.

<sup>1</sup> -ID & IDNA include a time delay feature that can be enabled/disabled in the field or set by the factory by including -ID-TD\* or -IDNA-TD\*  
<sup>2</sup> -NEX & -NEXRF is CSA-US approved only. Consult your sales representative  
<sup>3</sup> -3CP & -3CP277 custom lengths available. Consult your sales representative  
<sup>4</sup> Not available with -NEX & -NEXRF option or GR12N50 & GRN25 models

EXAMPLE: 2GRA3M10M

**GRANDE™ THERMOPLASTIC FAMILY** – The Grande™ Battery Unit is a part of Grande™ family of Thermoplastic emergency lighting products. Giving the same family look and style to a complete emergency lighting and exit sign application.



Grande™ Exit Series p.30



Grande™ Combination Series p.32



ELF640 (indoor) & ELF650 (outdoor) Remote Fixture p.110-111