

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



# Revelation™ Series

Visually invisible and architecturally designed Emergency Lighting

## Features

- Fully concealed in open cavity walls or ceiling
- Only visible when needed: during a power failure
- Each unit comes with two (2) MR16 halogen lamps ranging from 12 to 50W each or 2 MR16 style LED lamps
- The Self-Powered unit is contained in a heavy-duty galvanized steel back box that can be concealed in the wall or ceiling and includes a combined test switch and pilot light that is accessible through the frame
- The normally exposed parts of the unit (flat door and frame) are covered with a high-quality powder-coated, textured off-white finish that integrates well with most wall and ceiling paints. The surface finish can also be customized on site with paint, wallpaper or other coverings
- Power requirements: 120/277VAC, 60Hz, 0.25/0.12A
- PulsePlus Charger circuitry offers 120/277VAC 60Hz, 0.25/0.12A, automatic charger, built around a micro-controller integrated circuit. Circuit standard features include current limiting, temperature-compensated cut-off voltage, brownout transfer, low-voltage battery disconnect and battery lock out (prevents activation in DC mode until initial AC activation)
- Special bar hangers for installation in sheet rock or T-bar ceilings are included. The included electrical junction box can be installed on a wall stud or ceiling beam with a simple U-shape bracket
- 5-year warranty on electrical parts (motor, electronic circuitry). Each unit is fully computer-tested and aligned mechanically for optimum operation

## Diagnostic/Self Test Feature (optional)

Diagnostic/Self-Test circuitry is optional on all Self-Powered models. This circuitry is programmed to ensure 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 solid green to flashing red, indicating a fault. A detailed diagnostic legend is available on the door back and provides fault identification (battery, charger circuitry, lamps) for maintenance personnel. The self-test feature will simulate a power loss for a minimum of 30 seconds every 30 days, 30 minutes every 6 months and 90 minutes annually.

## Electrical

**Power requirements:** 120/277 Vac, 60 Hz, 0.25/0.12 Amps

**Transfer:** dust-tight, sealed relay; automatically deploys the door assembly and powers the emergency lights.

**LVD:** (low-voltage battery disconnect): automatically removes the electrical load (lamps, motor) when the battery reaches 87% of its nominal voltage.

**Lockout:** labor-saving electronic circuit automatically connects the battery when the AC circuit is activated.

**Brown-out:** close-tolerance electronic circuit activates the emergency lights when the utility power dips below 80 – 85% of nominal voltage.

**Charger:** the Pulse-Plus charging circuit utilizes a micro-controller integrated circuit, that samples the battery in relation to the ambient temperature, state of charge, and input voltage fluctuations. The charger is current limited, temperature compensated, short-circuit proof, and reverse-polarity protected. The circuit will charge in accordance with UL924 requirements.

## Suggested Specification

Supply and install **Emergi-Lite® Series Revelation™**: RT\_\_\_\_- 2 \_\_\_\_\_. 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 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 utilizes a modular design and comes with quick connect plugs for easy installation into 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 by 180° and then will power the lamps. At the restoration of the AC power or 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°.

The unit shall not require the presence of AC power in order to rotate the door closed returning the lamps inside the housing. Under normal conditions, the only visible parts of the unit will 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 90 minutes or until the battery is discharged to 87.5% of its nominal voltage (whichever duration is longer). The charger circuitry shall utilize a microcontroller 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, shortcircuit proof, and reverse-polarity protected. The circuit will charge in accordance with UL924 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light.

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

## Battery Warranty\*

**Sealed Lead-Calcium:** 3-year Full Warranty, plus 3-year pro rata warranty, 8-year life expectancy

**Sealed Nickel-Cadmium:** 5-year Full Warranty, 5-year pro rata warranty, 10 year life expectancy

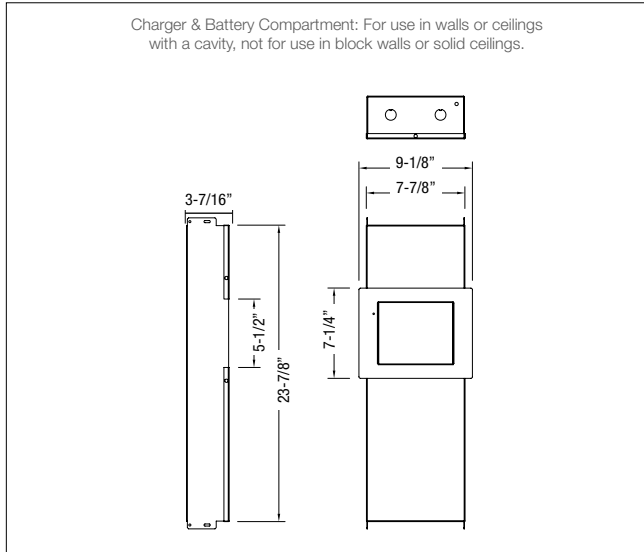
## Unit Warranty\*

Unit equipment (except battery and lamps): five-year limited warranty

\*Subject to proper installation and maintenance

## Dimensions

Dimensions are approximate and subject to change.



## Power Consumption

Model	Maximum		Stand-By*	
	Input Current	Input Power	Input Current	Input Power
120V	0.25A	30W	0.1A	11W
277V	0.12A	30W	0.05A	11W

\* Stand-by power consumption is 50% lower for Lead-Calcium batteries.

## Accessories (order as a separate item)

DESCRIPTION	SUFFIX
Remote Test Switch (metal face plate)	RTS
Remote Text Switch (plastic face plate)	RTS-1

## Unit Rating

Model	Watts to 87-1/2% of rated battery voltage*			
	1-1/2 hrs	2 hrs	4 hrs	8 hrs
RTM40, RTN40	40	30	24	-
RTM70, RTN70	70	50	40	24
RTM100, RTN100	100	70	50	40

\* National Electrical Code Specification

## How to Order

### Battery Unit

SERIES	BATTERY TYPE	UNIT CAPACITY	LAMP TYPE/WATTAGE		OPTIONS
RT	M= Lead-Cadmium N= Ni-Cd	40= 12V-40W 70= 12V-70W 100= 12V-100W	-2(12)= 12W, MR16 each head -2(20)= 20W, MR16 each head -2(35)= 35W, MR16 each head -2(50)= 50W, MR16 each head -2 (20H)= 20W, MR16 high lumen output -2 (35H)= 35W, MR16 high lumen output	-2 (50H)= 50W, MR16 high lumen output -2 (LG)= 12V-4W, MR16 LED -2 (LJ)= 12V-5W, MR16 LED -2 (LJ)= 12V-6W, MR16 LED	AD= Advanced Diagnostics (audible)* ADNA= Advanced Diagnostics (non-audible)* DL= Damp Location** D1= Time Delay (5 minutes) D2= Time Delay (10 minutes) D3= Time Delay (15 minutes) X= Back box shipped separately

\* AD & ADNA include a time delay feature that can be enable/disable in the field or set by the factory  
\*\* Available on all models except Ni-Cd 100W

Example: RTM100-2(50)-D3

### AC Remote Fixture

SERIES	INPUT VOLTAGE	# OF LAMPS	LAMP TYPE/WATTAGE		OPTIONS
RTG= Remote AC Generator	1= 120VAC, 60Hz 2= 277VAC, 60Hz	-2= Two lamps standard	(LG)= 12V-4W, MR16 LED (LJ)= 12V-5W, MR16 LED (LJ)= 12V-6W, MR16 LED (12)= 12W each head (20)= 20W each head	(35)= 35W each head (50)= 50W each head (20H)= 20W, high lumen output (35H)= 35W, high lumen output (50H)= 50W, high lumen output	-DL= Damp Location X= Back box shipped separately

Example: RTG2-2(LG)-DL