EMERGI-LITE®

TYPE:

CATALOG #:

NOTES:

Improved Design

Mini Revelation Series

The Next Generation of concealed emergency lighting: smaller size, full retrofit, impressive illumination

US

The **Mini-Revelation Series** form Emergi-lite is the next generation of concealed emergency lighting equipment, specially designed for retrofitting in finished walls with a cavity (dry-wall with 4-inch studs). In normal conditions (stand-by) the unit is completely concealed in the wall. In case of power failure the door of the unit flips 180° and exposes the emergency lights (two high-efficiency MR16 lamps) to illuminate the path of egress. At the end of discharge the lights turn off and the door closes by turning another 180° in the same direction, driven by a patent-pending, energy-storage circuit.

Mini Revelation Standard Features

- Easy to retrofit in finished walls: the unit slides in through an 8.25 by 5.75 inch 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 battery discharge
- Input: Standard AC input 120/277Vac
- Output: 12Vdc 40 W (self-powered model)
- Battery: choice of sealed Lead-Calcium, Nickel-Cadmium or Nickel-Metal Hydride
- Charger: micro-controller driven, temperature compensated, high-precision, fast recharge
- Illumination: equipment with 2 x 20W MR16-H lamps covers 70 to 75 feet of path of egress
- Remote AC unit: direct connection to 120 or 277Vac power generators
- Emergency lights: high-efficacy MR16 halogen lamps; power range from 2x12 to 2x50 Watts
- Warranty: five-year limited warranty on electronic circuitry and motor
- Patent-pending design for ease of installation

Suggested Specification

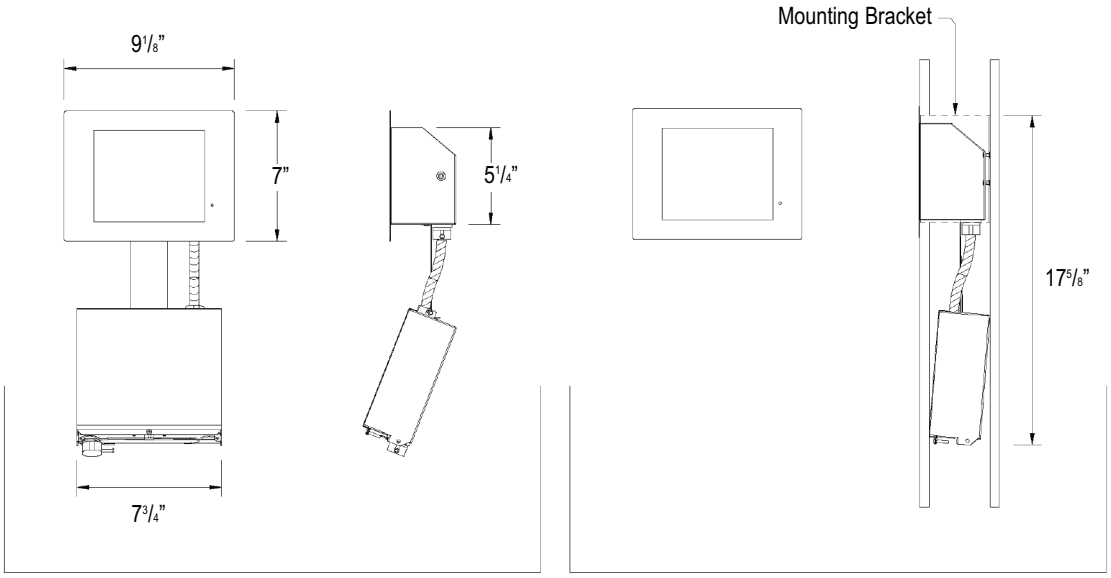
Supply and install **Emergi-lite Series Mini-Revelation**: MRT___. The unit shall be designed to be completely concealed in walls with a cavity. The equipment shall consist of a metal housing containing two modules joined by a flexible bracket and electric conduit. One module contains the battery, charger 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 highquality 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 90 minutes or until the battery is discharged to 87½ % 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 reversepolarity protected. The circuit will charge in accordance with the UL924 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light.

Diagnostic/Self Test Feature (optional)

The unit will come complete with the **Emergi-lite** series of advanced diagnostic 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 self-test shall simulate a power loss for minimum 30 seconds every 30 days, 30 minutes every 6 months, and 90 minutes annually. The equipment shall be **Emergi-lite** catalog number: _____.

Outline and Dimensions

Dimensions are approximate and subject to change.



Power Consumption Chart

Model	AC Input	Maximum		Stand-By (Ni-Cd, NiMH)*	
		Input Current	Input Power	Input Current	Input Power
MRT_40	120 Vac	0.25 A	30 W	0.1 A	11 W
	277 Vac	0.12 A	30 W	0.05 A	11 W
MRTG	120 Vac	0.95 A	110 W**	-	-
	277 Vac	0.45 A	110 W**	-	-

* Stand-by power consumption is 50% lower for Lead-Calcium batteries
** Maximum power when equipped with 2 x 50W lamps (generator unit)

Unit Rating Chart

Model	Watts to 87.5% of rated battery voltage*			
MRT_40	1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
	40	30	24	-

*National Electrical Code Specification

Unit Warranty*

Unit carries a 5-year full warranty.

Battery Warranty*

Sealed Nickel Cadmium Battery has a 10 year life expectancy and carries a 5-year Full Warranty, plus a 5-year pro rata warranty.

**Subject to proper installation and maintenance.*

How To Order

Battery Unit

Example: MRTM40-2(20)

Series	Battery Type	Unit Capacity	AC Capacity	Lamp Wattage	Options
MRT	**M =** Lead-Calcium **N =** Nickel-Cadmium **H =** Nickel-Metal Hydride	**40 =** 12V, 40W	**Blank=** 120/277Vac	**-2(12) =** 12W each head **-2(20) =** 20W each head **-2 (20H) =** 20W, high lumen output	**AD =** advanced diagnostic, audible **ADNA =** advanced diagnostic, non-audible **D1 =** time delay 5 minutes **D2 =** time delay 10 minutes **D3 =** time delay 15 minutes **DL =** damp location* *DL Damp location available on only MRTN40, MRTH40

AC-Remote Unit

Example: MRTG1-2(20)

Series	Battery Type	Unit Capacity	AC input	Lamp Wattage	Options
MRT	**G =** Remote AC generator	**Blank =** max. 100W	**1 =** 120Vac **2 =** 277Vac	**-2 (12) =** 12 watts each head **-2 (20) =** 20 watts each head **-2 (35) =** 35 watts each head **-2 (50) =** 50 watts each head **-2 (20H) =** 20 watt,MR16, high lumen output **-2 (35H) =** 35 watt, MR16, high lumen output **-2 (50H) =** 50 watt, MR16, high lumen output	**DL =** damp location

EMERGI-LITE®

www.emergi-lite.com

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