



Standard Features

Reliability

Each unit is fully computer-tested and aligned mechanically for optimum operation. The electrical parts (motor, electronic circuitry) carry a five-year warranty.

Unit Data

The normally exposed parts of the unit (flat door and frame) are covered with a high-quality, powder coated textured off-white finish, which integrates well with most wall and ceiling paints. The surface finish can also be customized on site with paint, wallpaper or other coverings. The self-powered unit is contained in a heavy-duty galvanized steel back-box, concealed in the wall or ceiling and includes a combined test switch and pilot light, accessible through the frame. Special bar hangers for installation in sheet rock or T-bar ceilings are included in the package. The DC-remote unit comes as a compact, one-piece module and does not require the large galvanized steel back-box. The module includes the electrical junction box and is installed on the wall stud or ceiling beam with the help of a simple, U-shape bracket. Each unit comes standard with two (2) MR-16 halogen lamps of wide angle (flood), of specified power ranging from 12W to 50Watts each. The DCremote

Pulse-Plus Battery Charger:

The charger circuitry offers a 120/277 Vac 60 Hz, 0.25/0.12 Amp, automatic charger, built around a micro-controller integrated circuit. Circuit standard features: current limiting, temperature-compensated cut-off voltage, brown-out transfer, low-voltage battery disconnect and battery lockout (Prevents activation in the d.c. mode until initial a.c. activation).

Diagnostic / Self Test Feature (optional)

Diagnostic / Self-Test circuitry is optional on all self-powered models. This circuitry is programmed to 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 solid green to a flashing red light, indicating a fault. A detailed diagnostic legend is available on the door back side and provides fault identification (battery, charger circuitry, lamps) for the maintenance personnel. The self-test feature will simulate a power loss for 30 seconds every 30 days and a full 90-minute test every 12 months.

Improved Design

THE UNSEEN SOLUTION

Virtually Invisible Emergency Lighting

The Retract-Lite Series is architecturally designed for unobtrusive use in walls with cavity (dry walls with 4-inch studs) or un-insulated ceilings with horizontal beams or T-bar structures. In normal conditions (stand-by) the unit is completely concealed in the wall or ceiling. In case of power failure the door of the unit rotates open 180° and exposes the emergency lights (two high-efficiency MR16 lamps) to illuminate the path of egress.

Once AC power returns or at the end of discharge period, the lights turn off and the door rotates closed automatically, driven by a patent-pending, energystorage circuit. If needed the backbox can be shipped separately.

For remote AC generator applications please consult factory.

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.

Power Consumption Chart

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

*Stand-by power consumption is 50% lower for Lead-acid batteries

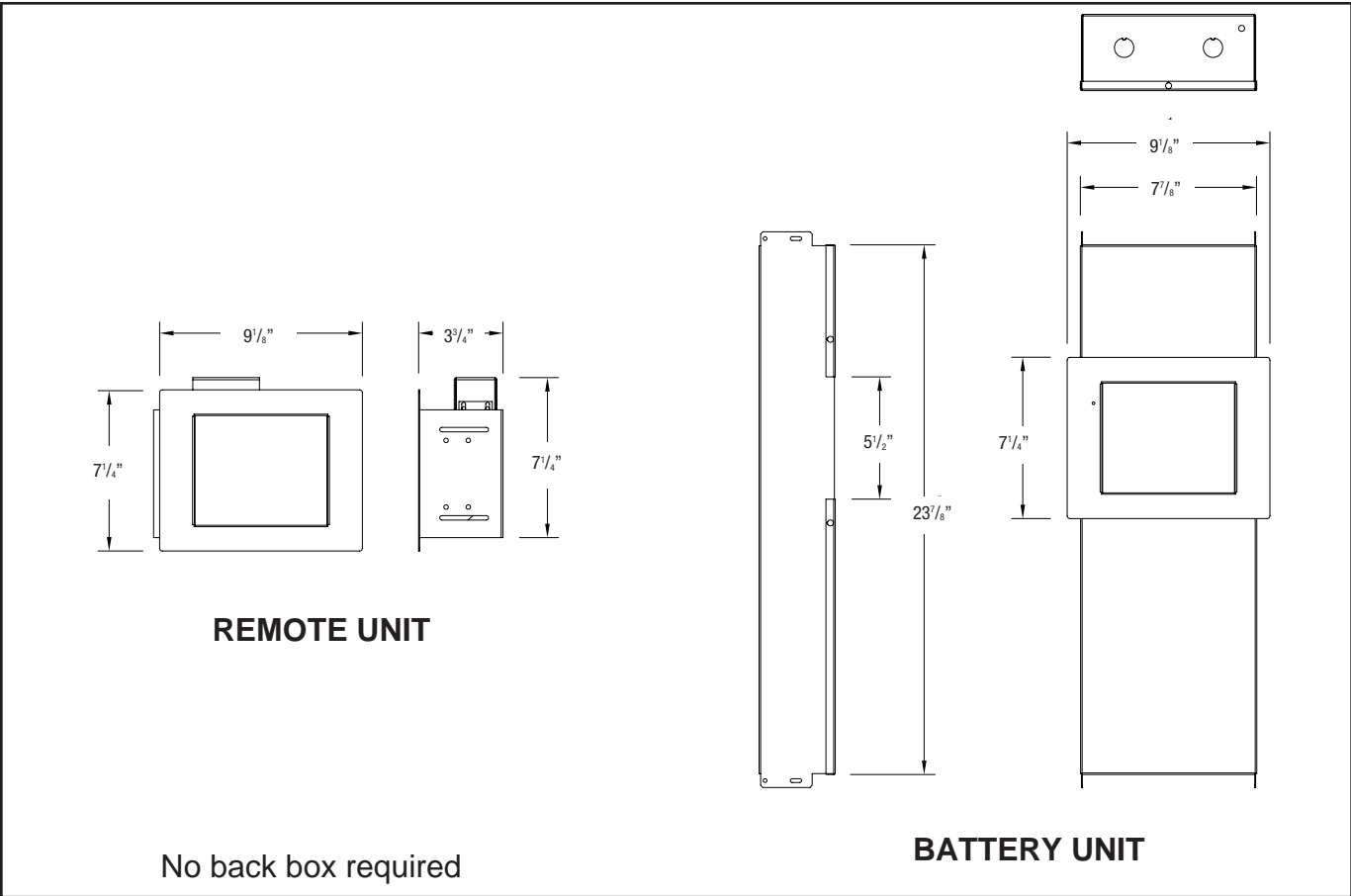
Unit Rating Chart

Model Number	*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

Outline and Dimensions

Dimensions are approximate and subject to change. Unit supplied with T-bar hanger kit package.



How To Order (example)

RT	M	100	-2(50)	DL
Series	Battery Type	Unit Capacity	Lamp Wattage*	Options
RT	M = Lead-Calcium N = Nickel-Cadmium	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	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 X = backbox shipped separate
			*High lumen output lamps available with 12V only.	*DL Damp Location option is available on 40, 70 and 100 watt lead calcium, and 40 and 70 watt NiCad units.