New and Improved Design

THE UNSEEN SOLUTION

Virtually Invisible Emergency Lighting

The Phantom 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, energy storage circuit. If needed the backbox can be shipped separately.

For remote head, please refer to page 98.

POWER CONSUMPTION CHART

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

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

UNIT RATING CHART

Model	Watts to 87.5% of rated battery voltage*			
	1½ hrs.	2 hrs.	4 hrs.	8 hrs.
PHM40, PHN40	40	30	24	-
PHM70, PHN70	70	50	40	24
PHM100, PHN100	100	70	50	40

** National Electrical Code Specification*

OPTIONS

(Add Suffix to Model No.) **Suffix**

Damp location listing (available on all models except PHN100)..... **DL**

Improved diagnostic (audible) ..... **ID**

Improved diagnostic (non-audible) ..... **IDNA**

Time delay (T1=5,T2=10, or T3=15 minutes)..... **T_***

**(ID or IDNA) includes a Time Delay function, if needed it can be enabled/disabled in the field or it can be preset at the factory by including the suffix ID-T_ or IDNA-T_

ACCESSORIES (order as a separate item)

Remote test switch (Metal Faceplate): ..... PSW

Remote test switch (Plastic Faceplate): PSW-1

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 battery 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 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 specified power ranging from 12W to 50Watts each.

PulsePlus 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).

Power Requirements

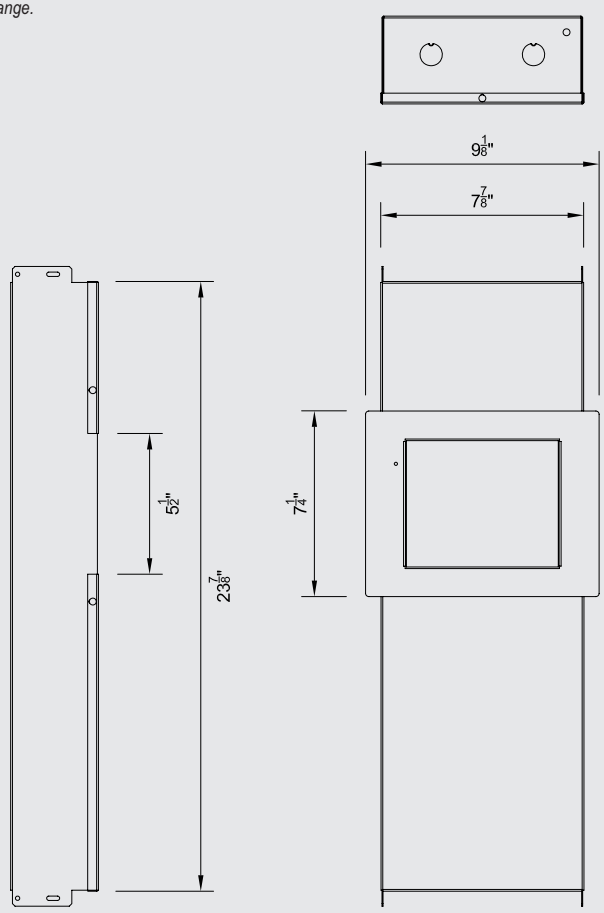
120/277Vac, 60Hz, 0.25/0.12 Amp

IMPROVED DIAGNOSTIC (Optional)

This micro-controller circuitry is optional on all self-powered battery units. 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 minimum 30 seconds every 30 days, 30 minutes every six months and 90 minutes annually.

DIMENSIONS

Dimensions are approximate and subject to change.



Charger & Battery Compartment:
For use in walls or ceilings with a cavity, not for use in block walls or solid ceilings.

ORDERING FORMAT

Battery Unit

PH	M	100	-2(20)	DL
Series	**Battery Type**	**Unit Capacity**	**LampWattage**	**Options**
	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	**ID**= improved diagnostic, audible **IDNA**= improved diagnostic, non-audible **T1**= time delay 5 minutes **T2**= time delay 10 minutes **T3**= time delay 15 minutes **DL**= damp Location* **X**= Backbox Shipped separate **DL Damp Location option is available on all models except PHN100.*

Generator Unit

PHG	1	-2	(20)
Series	**Input Voltage**	**# of Lamp**	**Lamp Wattage**
PHG	**1**= 120 Vac, 60 HZ **2**= 277 Vac, 60 HZ	**-2**= Two lamps	**(12)**= 12W, each head **(20)**= 20W, each head **(35)**= 35W, each head **(50)**= 50W, each head **(20H)**= 20W, MR16 high lumen output **(35H)**= 35W, MR16 high lumen output **(50H)**= 50W, MR16 high lumen output