

■ Mini-Phantom Series



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

Evaluated to UL 924 Standard

The **Mini-Phantom Series** from **Lightalarms** is the next generation of concealed emergency lighting equipment, specially designed for retrofitting in finished walls with a cavity (dry-walls with 4-inch studs). In normal conditions (stand-by) the unit is completely concealed in the wall.

■ 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. 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

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 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 six months and 90 minutes annually.

■ POWER CONSUMPTION CHART

Model	AC Input	Maximum		Stand-By (Ni-Cd, NiMH)*	
		Input Current	Input Power	Input Current	Input Power
MPH_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
MPHG	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*			
	1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
MPH_40	40	30	24	-

* National Electrical Code Specification

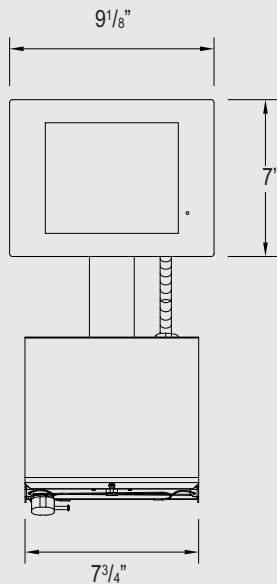
■ OPTIONS

(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_*

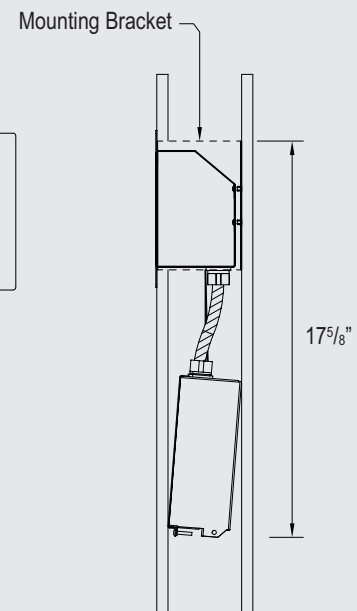
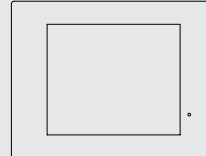
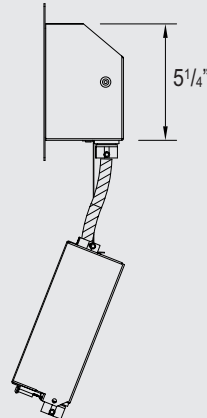
** (ID or IDNA) includes a Time Delay function, if needed it can be enabled/disabled in the field or it can be preset at the factory by including the suffix ID-T_ or IDNA-T_

▣ DIMENSIONS

Dimensions are approximate and subject to change.



Complete Unit



Installed Unit

▣ ORDERING FORMAT

	MPH	M	40	-2(20)	DL
Battery Unit	Series	Battery type	Unit Capacity	Lamp Wattage (12V MR16)	Options
	MPH	M= Lead-Calcium N= Nickel-Cadmium H= Nickel-Metal Hydride	40= 12V, 40 watts	-2 (12)= 12 watts each head -2 (20)= 20 watts each head -2 (20H)= 20 watts, high lumen output	ID= improved diagnostic IDNA= improved diagnostic, non-audible T1= time delay 5 min T2= time delay 10 min T3= time delay 15 min DL= damp location (only MPH40, MPH40)
Generator Unit	Series	Battery type	Unit Capacity	AC input	Lamp Wattage (12V MR16)
	MPH	G= Remote AC generator	Blank= max. 100W	1= 120 Vac 2= 277 Vac	-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 watts, high lumen output -2 (35H)= 35 watts, high lumen output -2 (50H)= 50 watts, high lumen output
					Options DL= damp location