

# MINI-PHANTOM Battery Unit

Unseen solution, The Next Generation



## Features

- **Easy to retrofit in finished walls:** the unit slides in through an 8.25-in by 5.75-in 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 the battery discharge
- **Input:** Standard AC input 120/347Vac; optional 120/277Vac
- **Output:** 12Vdc with up to 100 watts of power
- **Battery:** choice of sealed, maintenance-free Lead-Calcium or Nickel-Metal Hydride
- **Remote capacity:** can drive several wall or ceiling-mount 12-Vdc remote Phantom fixtures
- **Charger:** micro-controller driven, temperature compensated, high-precision, fast recharge
- **Remote AC fixture:** direct connection to 120 or 347Vac power generators



Made in Canada



## Typical Specification

Supply and install Lumacell Series Mini-Phantom. 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 high-quality 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 30 minutes or until the battery is discharged to 87 ½% 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 reverse-polarity protected. The circuit will charge in accordance with the CSA C22.2 – 141 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light.

Auto-test and diagnostic: the unit will come complete with the Lumacell series of auto-test 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 auto-test shall simulate a power loss for one minute monthly, 10 minutes every sixth months, and a full 30-minute test every 12 months.

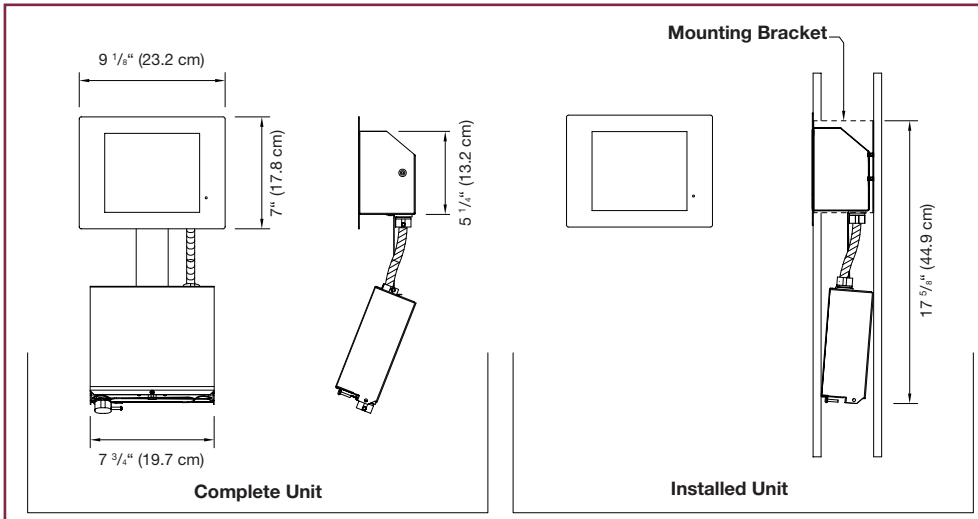
The equipment shall be Lumacell model: \_\_\_\_\_.

Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



# MINI-PHANTOM SERIES

## Dimensions



In the same family...

**MINI-PHANTOM**

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## Power Consumption and Unit Rating

Model	AC Specs		Wattage Capacity			
			30min	1h00	2h00	3h00
<b>MPS80</b>	120/347 Vac	0.25/0.08 Amp	80	40	24	-
<b>MPH100</b>	120/347 Vac	0.25/0.08 Amp	100	70	36	24
<b>MPG</b>	120 Vac	Max. 0.95 Amp	Max. 100W load			
<b>MPG-ZC</b>	277 Vac	Max. 0.45 Amp	Max. 100W load			
<b>MPG-ZD</b>	347 Vac	Max. 0.35 Amp	Max. 100W load			

## Replacement Lamps

Model	Lamp Type	Voltage-Wattage
580.0080-L	MR16 12W Flood	12V-12W
580.0064-L	MR16 20W Flood	12V-20W
580.0083-L	MR16 35W Flood	12V-35W
580.0076-L	MR16 50W Flood	12V-50W
580.0068-L	MR16 IR * 20W Flood	12V-20W
580.0090-L	MR16 IR * 35W Flood	12V-35W
580.0089-L	MR16 IR * 50W Flood	12V-50W

\* High-output (H).

See the complete list p. 196 to 199.

## Ordering Information

Series	Unit Capacity	Lamp Wattage	AC Voltage	Options
<b>MP</b>	<b>S80</b> = Lead-Calcium, 12V, 80W <b>H100</b> = Nickel-Metal Hydride, 12V, 100W	<b>12W</b> = 2x 12watts MR16	<b>Blank</b> = 120/347Vac <b>ZC</b> = 277Vac	<b>AT</b> = Auto-Test
		<b>20W</b> = 2x 20watts MR16		<b>ATN</b> = Auto-Test, non-audible
		<b>35W</b> = 2x 35watts MR16		<b>T3</b> = Time delay (15 minutes)
		<b>50W</b> = 2x 50watts MR16		<b>TB</b> = T-Bar mounting unit
		<b>20WH</b> = 2x 20watts MR16, High lumen-output lamp		
<b>35WH</b> = 2x 35watts MR16, High lumen-output lamp				
<b>50WH</b> = 2x 50watts MR16, High lumen-output lamp				

**EXAMPLE: MPS8035WHAT**