

## OVERALL CHARACTERISTICS

The PathMaster Power System is designed to provide continuous low-voltage normal power and emergency power to support 12 VAC PathMaster luminaires located throughout your home, or commercial structure. Backup batteries are sealed, maintenance free style, and should last for 3-5 years of service if operated in ambient temperatures of 65°F to 85°F. The PathMaster Power System meets the Buy American requirements.

## APPLICATION

The PathMaster Power System receives input power via pre-wired 3 ft. wired cord and plug sets and requires the dedicated use of two convenience outlets. For simplicity, the power system is usually wall mounted in a garage or utility closet with a nearby duplex convenience outlet. Unswitched input power (120 VAC) is routed through one power cord, and the alternate power cord should be connected to an additional receptacle or timeclock if the user wishes to turn connected luminaires on and off at preset times of day. 12 VAC power is routed from the power system output to connected luminaires. Two circuit breaker protected 75 watt output circuits are available to support connected PathMaster luminaires.

## HOUSING

The PathMaster Power System is constructed of heavy 18 gauge die-formed steel and has an easily removable front cover for inspection, service, and maintenance. Top and side knockouts are conveniently located to route output circuits or to hardwire if used in a commercial application. The PathMaster Power System is designed specifically for wall mounting and is provided with keyhole slots on the back for ease of installation.

## CONTROLS

The PathMaster Power System supports two front mounted toggle switches for control of two 75 watt luminaire output circuits. A momentary push switch is located on the right side of Power System, and when actuated, will simulate a power failure to engage the emergency battery power supply. Also located on the right side of Power System is a red LED indicator lamp, that when illuminated, indicates a system normal operation with utility power available.

# PathMaster

## System For Normal And Emergency Power of Low Voltage PathMaster LED Luminaires



### ELECTRONICS

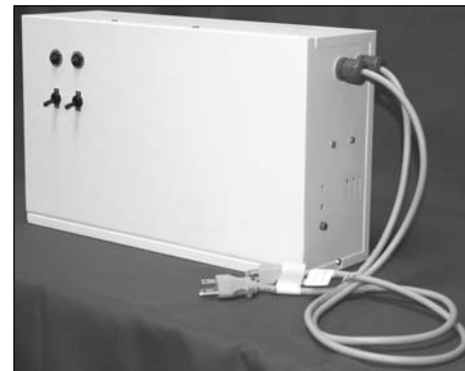
The PathMaster Power System electronics consists of three sections to include a fully automatic battery charging system, output isolation transformer, and a power failure sensing control circuit that automatically routes battery power to PathMaster luminaires in the event of a power failure.

The Power System battery charger is completely solid-state and is designed to operate unattended. The battery charger module is voltage regulated, temperature compensated, and automatically adjusts charge voltage based on battery condition.

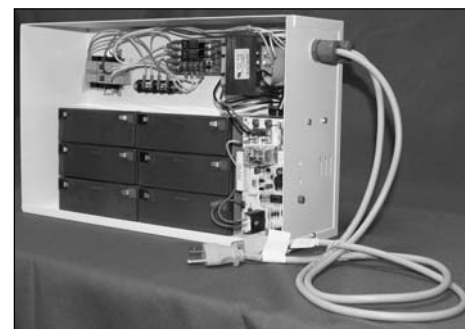
The Power System output transformer feeds two 75-watt luminaire output circuits that can be switched via front cover mounted toggle switches, or via remote switches installed by the contractor/end user. Up to (15) 12 VAC PathMaster luminaires may be connected to the Power System output circuits.

The power failure sensing control circuit automatically senses loss of utility power and routes battery output to the Pathmaster luminaires, bypassing the switch control. When normal power returns, this circuit restores all operating parameters back to normal and instructs the battery charger to begin a full re-charge of batteries.

Batteries located in the Power System are sealed, maintenance-free lead calcium style, and can be easily replaced by a service dealer or owner at end of life. It is recommended that a full battery discharge be conducted once a year to determine relative condition of batteries. The PathMaster Power System should operate (15) 12 VAC PathMaster luminaires in the power failure mode for a minimum of 90 minutes if the system batteries are in top condition.



**DIMENSIONS: 17.5" W x 10.8" H x 5.0" D**



### ELECTRICAL SPECIFICATIONS

Input: 120 VAC, 60 HZ, 1.9A max  
Normal output: 12 VAC, 60 HZ, 150VA/150W  
Emergency output: 12 VDC, 150W via (2) 75W circuits

### CODE COMPLIANCE

ETL listed to UL standard 924

### WARRANTY

Three year full warranty on electronics

One year full warranty on batteries, with additional four year pro-rata warranty coverage

## ORDERING INFORMATION

**PMPS1**

**SERIES**

PMPS1 = PathMaster  
Power System

For use exclusively with 12 VAC PathMaster LED luminaires and 12 VAC PathMaster Bollard LED luminaires.

## WIRING DIAGRAM

