



Type No. _____
Job Name _____
Catalog No. _____



DIMENSIONS: 17.5" W X 10.8" H X 5.0" D



NightWatch

System For Normal And Emergency Power of Low Voltage NightWatch LED Luminaires

Electronics

- The NightWatch 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 NightWatch 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 W 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 NightWatch 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 NightWatch luminaires, by-passing 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 NightWatch Power System should operate (15) 12 VAC NightWatch luminaires in the power failure mode for a minimum of 90 minutes if the system batteries are in top condition.

Housing

- The NightWatch 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 NightWatch Power System is designed specifically for wall mounting and is provided with keyhole slots on the back for ease of installation.

Controls

- The NightWatch Power System supports (2) front mounted toggle switches for control of (2) 75 W 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.

Electrical Specifications

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

NWPS1
SERIES
NWPS1 = NightWatch Power System

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

General Description

- The NightWatch Power System is designed to provide continuous low-voltage normal power and emergency power to support 12 VAC NightWatch 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 NightWatch Power System meets the Buy American requirements.

Application

- The NightWatch Power System receives input power via pre-wired 3 foot 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 W output circuits are available to support connected NightWatch luminaires.

Wiring Diagram

