

# **READ AND FOLLOW ALL SAFETY INSTRUCTIONS!**

## **SAVE THESE INSTRUCTIONS!**

### **IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**

- Do not use outdoors.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.

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M-PE24V100AH-UL  
As of 020518

# PE-24V-240W-100AH-UL

Power Enclosure, 24 VDC, 240 Watts, 100 Amp-Hour Power System

## Installation/Operation Manual

- Prepare To Install
- Installation
- Install Batteries
- BDS-DIN-UPS-24-10 Manual
- Cabinet Outline and Mounting
- Wiring Guide

## Specifications

### Ratings

Input: 120V AC, single phase

Input Frequency: 60 Hz.

Maximum Input: 3.3 Amps *Use Copper Wire Only*

### Output

Volts: 27.6V DC

Amps: 5

### Rated Operating Time in Emergency Mode

Oper. Time: 5.0A @ 12 Hrs. Max. Load: 5 Amps

Install Only: GS Battery # PYL12V100FS Battery



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# PE-24V-240W-100AH-UL

Power Enclosure, 24 VDC, 240 Watts, 100 Amp-Hour Power System

## Prepare to Install

- **System Contents:** Power Enclosure, Batteries (Packed Separately)
- **Details:** Installation Manual, Located Inside of Door
- **Door Key (x 2):** Attached to One of Enclosure's Bottom Mounting Holes
- **Wiring Accessories:** Polybag Inside Enclosure

**Caution: Heavy Equipment**

**Caution: Contains Batteries**

**Inspect Shipment Upon Receipt, Notify Carrier if Any Damage!**

### Material Provided:

- (1) NEMA 4X Power Enclosure
- (2) NPT-1/2" Liquid tight cord grips, clamping range: 6-11 mm
- (1) Plated copper battery series bus bar (Included with 100AH batteries)
- (2) 12V DC, 100 AH sealed valve regulated lead acid AGM non-spillable batteries w/terminal hardware

**Overall Case Dimensions:** 30" H x 23" W x 10.5" D

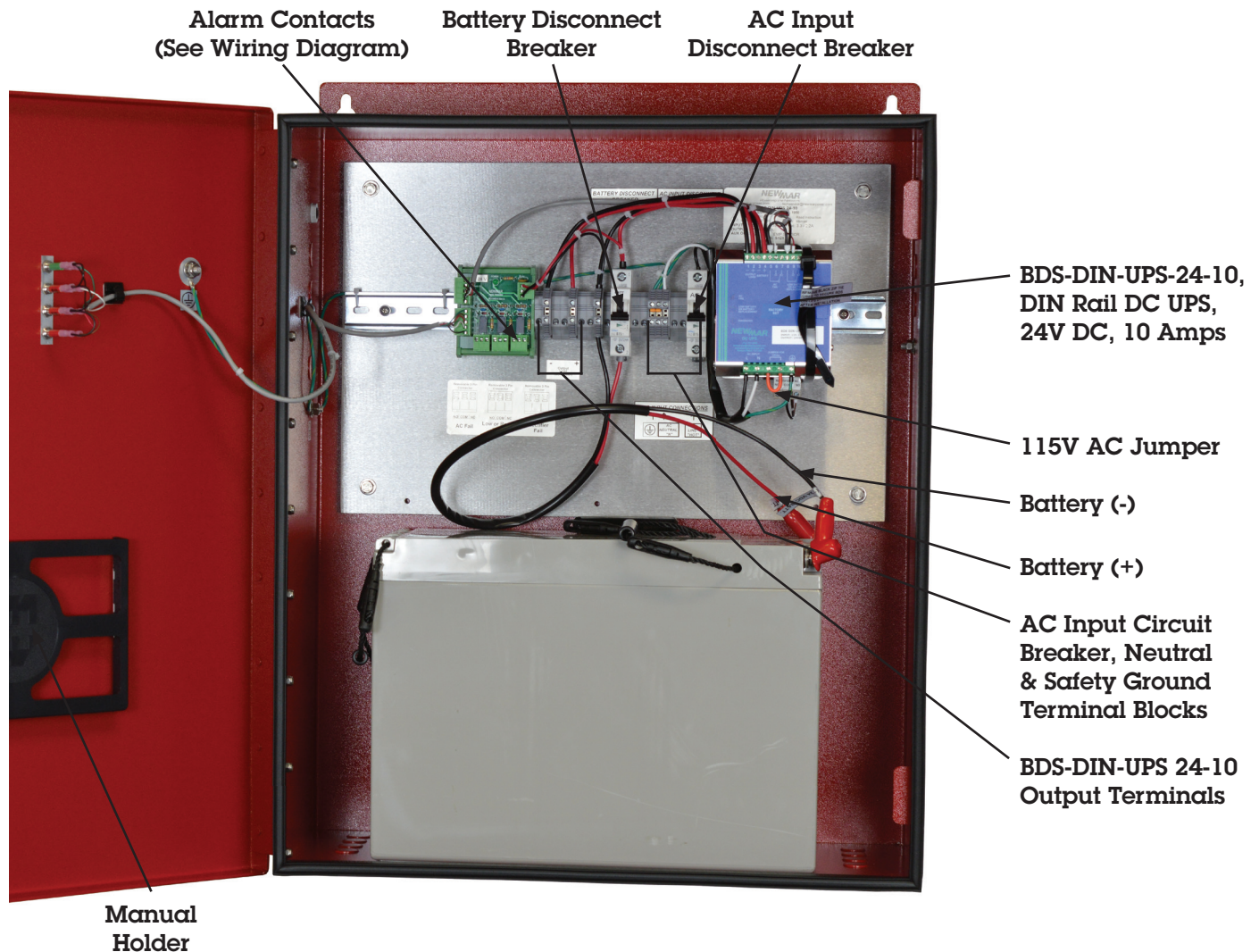
**Door Hinge:** Left Side



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## Installation



1. Mount enclosure on wall (customer supplied hardware) - see enclosure mounting drawings
2. Ensure both AC & battery disconnect circuit breakers are in OFF position
3. Qty. 2 liquid tight cord grips (NPT 1/2") are provided with the PE enclosure (clamping range: 6-11 mm). Four sets of four (16) 7/8" knock outs are provided on the bottom left, bottom right and upper left & right hand sides for cable feed thrus. Identify knock outs for your installation for the following cables and install cord grips:
  - A. DC Output to BDA, installer provided.
  - B. Alarm contacts (AC FAIL, BATT. LOW & RECTIFIER/CHARGER FAIL), installer provided.
  - C. Site Power Monitor or SPM-200 (optional)
4. Provide 120V AC (15A) circuit to PE system and connect to AC input circuit breaker (Hot) and terminal blocks (Neutral and Earth Ground)
5. Route BDA amplifier DC input cables thru cord grip, connect to BDS-DIN-UPS 24-10 OUTPUT terminals
6. Route alarm cables through cord grip, connect to alarm terminal blocks on BDS-DIN-UPS 24-10 (see wiring diagram)



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## Install Batteries

7. Install batteries in to enclosure per photograph
8. Install series bus bar between the two battery's Pos.(+) & Neg.(-)terminals- see photograph
9. Connect battery cables from Battery disconnect circuit breaker and DC ground terminal block to 24 volt battery string terminals per photograph/wiring diagram.
10. Energize 120V AC circuit
11. Turn on PE system AC disconnect circuit breaker and verify BDS-DIN-UPS 24-10 powers up. After one minute you should see the following:
  - A. AC FAIL LED: Off
  - B. BATTERY LOW/BATTERY REPLACEMENT LED: On (extinguishes when battery disconnect breaker is turned on, batteries connected)
  - C. DIAGNOSIS LED: 2 Blink/Paruse
12. Confirm the BDA amplifier is receiving power
13. Confirm battery polarity is correct: RED wire to Battery Positive (+) & BLACK wire to Battery Negative (-). Turn on the battery disconnect circuit breaker, the diagnostic LED on the BDS unit should show one of the following:
  - A. 1 Blink/Second = Float Mode
  - B. 3 Blink/Second = Bulk charging mode (battery requires charge)
14. Verify battery voltage is approximately 27.3V DC (Float mode)

