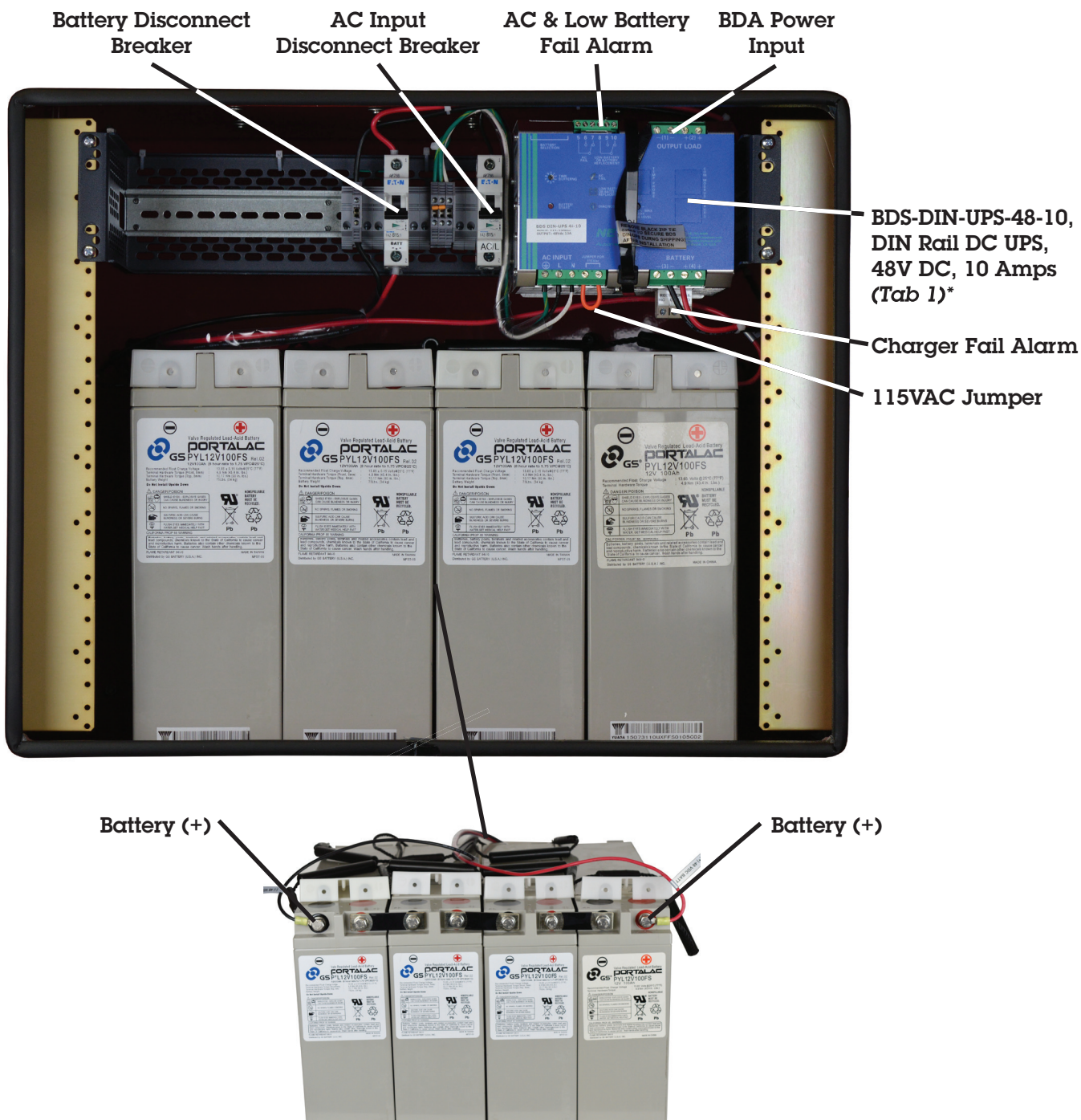


# PE-48V-480W-100AH

Power Enclosure, 48 VDC, 480 Watts, 100 Amp-Hour Power System

## Installation/Operation Manual

### System Components



M-PE48V480W100AH  
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# PE-48V-480W-100AH

## Power Enclosure, 48 VDC, 480 Watts, 100 Amp-Hour Power System

### Material Provided:

- (1) NEMA 4X Power Enclosure
- (1) AC power cord, NEMA 5-15P plug, 15 ft. length
- (4) NPT-1/2" Liquid tight cord grips, clamping range: 6-11 mm
- (2) Spare BDS-DIN-UPS programming jumpers
- (3) Bus bar battery jumpers
- (4) 12 VDC, 100 AH sealed valve regulated lead acid AGM non-spillable batteries

### Reference photo & wiring diagram provided.

- 1. Mount enclosure on wall (customer supplied hardware)
- 2. Ensure both AC & battery disconnect circuit breakers are in OFF position
- 3. Qty. 4 liquid tight cord grips (NPT 1/2") are provided with the PE enclosure (clamping range: 6-11 mm). Two sets of four (8) 7/8" knock outs are provided on the bottom front left and bottom rear right sides for cable feed thrus. Identify knock outs for your installation for the following cables and install cord grips:
  - A. AC Input (115 VAC 15 ft. power cord provided)
  - B. DC Output to BDA, installer provided.
  - C. Alarm contacts (AC FAIL, BATT. LOW & RECTIFIER/CHARGER FAIL), installer provided.
  - D. Site Power Monitor or SPM-200 (optional)
- 4. Route 15 ft. AC power cord through cord grip, connect to ac input breaker (Hot) & terminal blocks (Neutral & Earth Ground) - do not connect to outlet yet.
- 5. Route BDA amplifier DC input cables thru cord grip, connect to BDS-DIN-UPS 48-10 OUTPUT terminals
- 6. Route alarm cables through cord grip, connect to alarm terminal blocks on BDS-DIN-UPS-48-10 (see wiring diagram)
- 7. Install batteries in to enclosure per photograph
- 8. Connect the three battery series jumpers per photograph
- 9. Connect battery cables from Battery disconnect circuit breaker and DC ground terminal block to 48 volt battery string terminals per photograph/wiring diagram.
- 10. Connect the AC power cord to standard 115 VAC outlet
- 11. Turn on AC disconnect circuit breaker and verify BDS-DIN-UPS-48-10 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/Pause
- 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 54.6 VDC (Float mode)

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