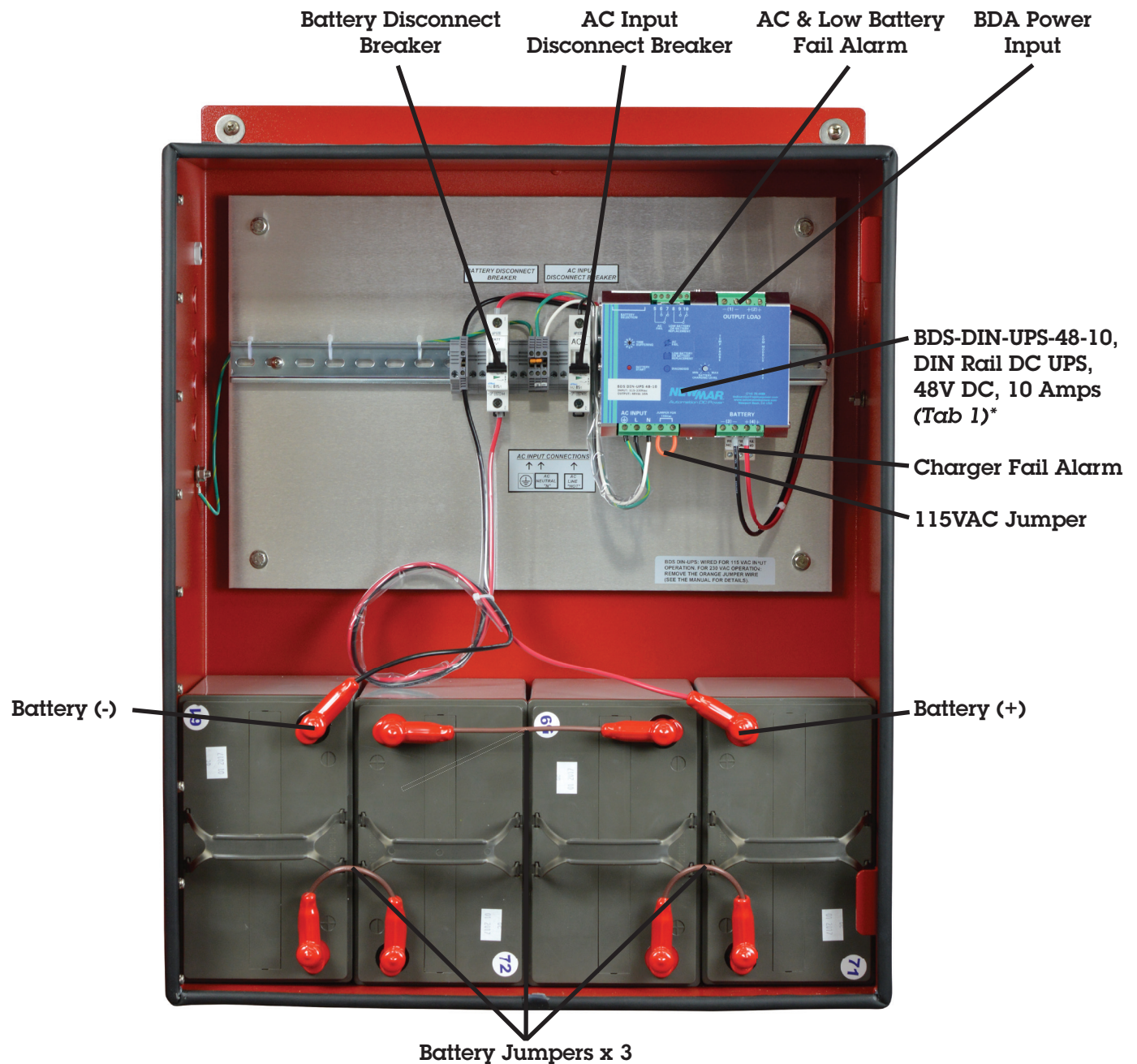


# PE-48V-480W-55AH

Power Enclosure, 48 VDC, 480 Watts, 55 Amp-Hour Power System

## Installation/Operation Manual

### System Components



M-PE48V55AH  
As of 020917

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# PE-48V-480W-55AH

## Power Enclosure, 48 VDC, 480 Watts, 55 Amp-Hour Power System

### Instructions

#### **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) 12 AWG Brown battery jumpers
- (4) 12 Vdc, 55 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). 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. 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 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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