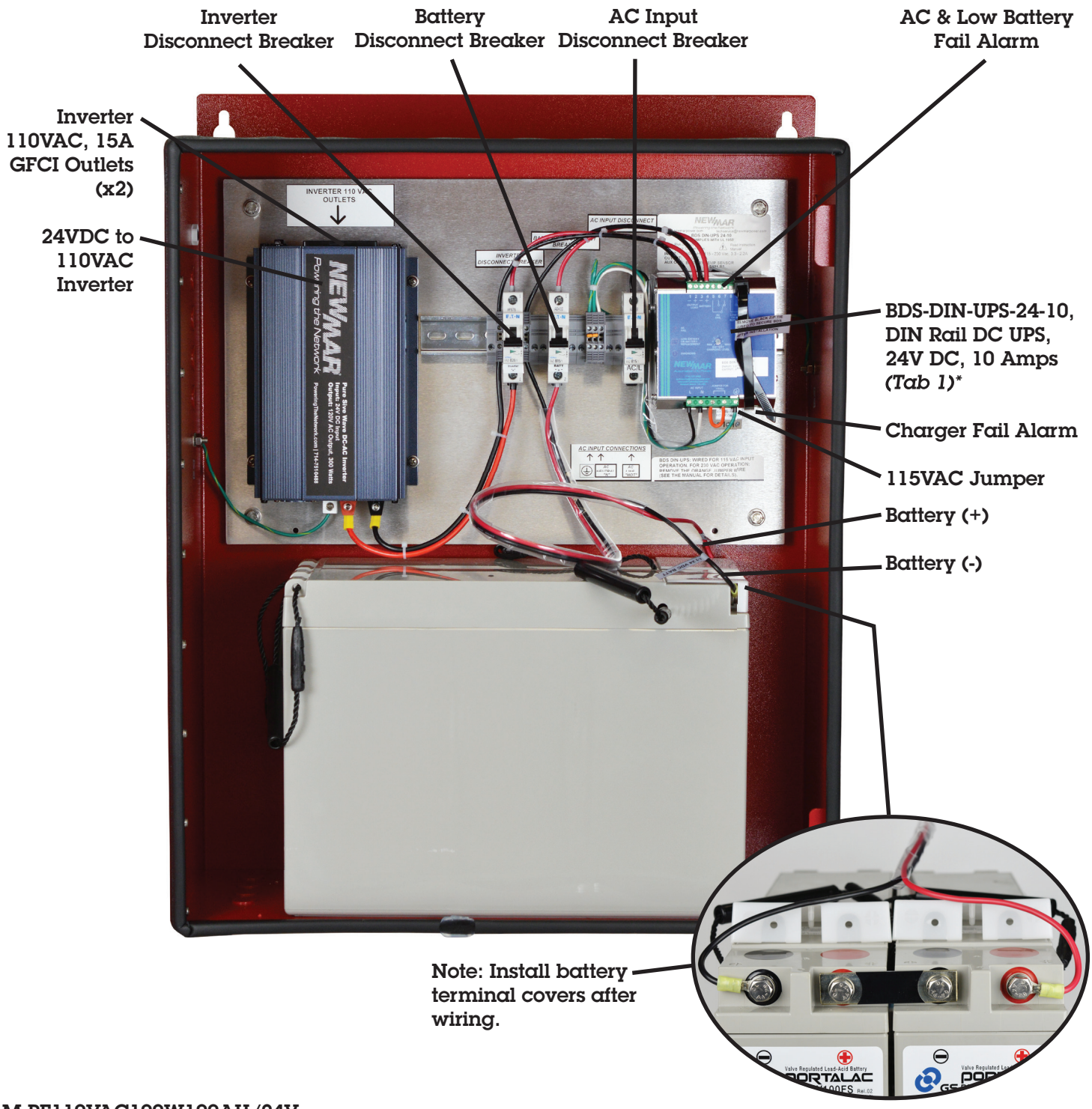
PE-110VAC-100W-100AH/24V

Power Enclosure, 110V AC, 100 Watts, 100 Amp-Hour, 24V DC Power System

Installation/Operation Manual

System Components



M-PE110VAC100W100AH/24V
As of 051817

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Instructions

Material Provided:

(1) NEMA 4X Power Enclosure
(1) AC power cord (BDS-DIN-UPS AC Input), 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
(1) Plated copper battery series bus bar (Included with 100AH batteries)
(2) 12 VDC, 100 AH sealed valve regulated lead acid AGM non-spillable batteries w/terminal hardware

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 ½") 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.** Inverter AC 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 AC input cable thru cord grip, connect 115 V, 15 A plug to S-300-124 inverter outlet on top of inverter
6. Route alarm cables through cord grip, connect to alarm terminal blocks on BDS-DIN-UPS 24-10 (see wiring diagram)
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. Connect the BDS AC power cord to standard 115 vac outlet
11. Turn on 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/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 27.3V DC (Float mode)

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