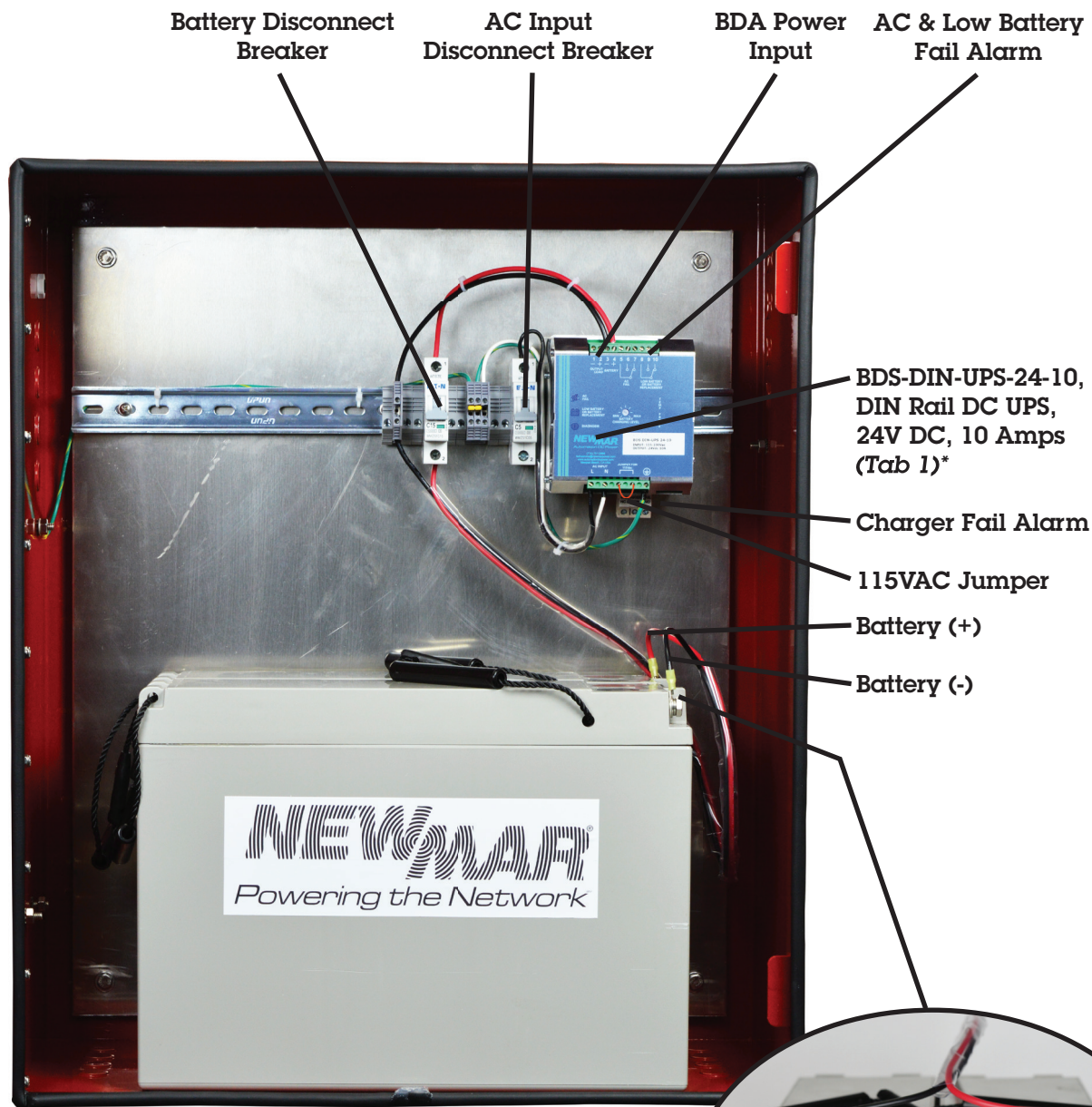


PE-24V-240W-100AH

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

Installation/Operation Manual

System Components



M-PE24V100AH
As of 020917

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PE-24V-240W-100AH

Power Enclosure, 24 VDC, 240 Watts, 100 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
- (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 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 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)
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 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 27.3 vdc (Float mode)

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