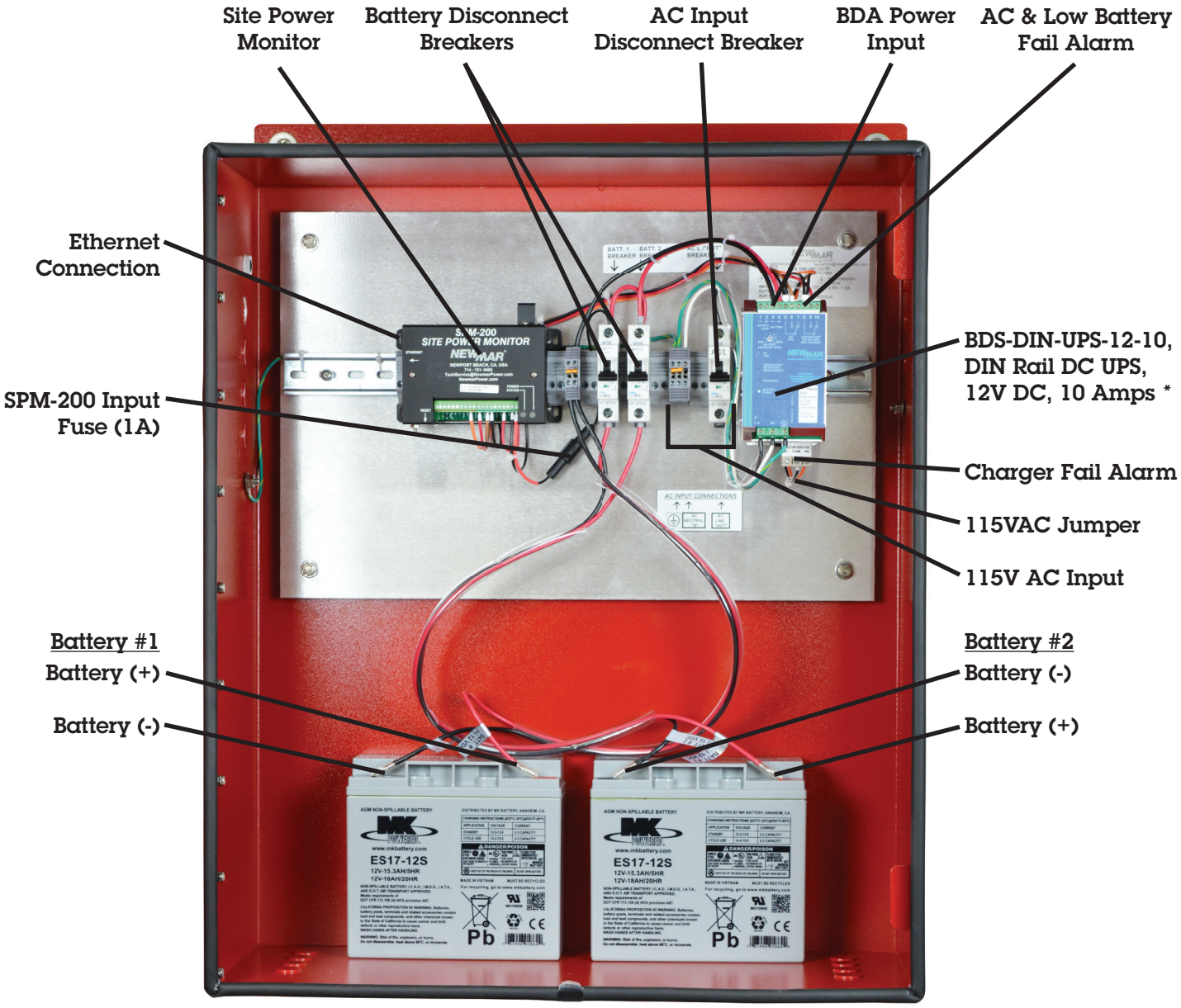
PE-12V-12W-36AH-SPM

Power Enclosure, 12 VDC, 12 Watts, 36 Amp-Hour Power System with Remote Monitoring

Installation/Operation Manual

System Components



M-PE12V12W36AHSPM
As of 030917

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PE-12V-12W-36AH-SPM

Power Enclosure, 12 VDC, 12 Watts, 36 Amp-Hour, SPM (200) Power System

Instructions

Material Provided:

(1) NEMA 4X Power Enclosure
(1) AC power cord (BDS-DIN-UPS AC Input), NEMA 5-15P plug, 15 ft. length
(3) NPT-1/2" Liquid tight cord grips, clamping range: 6-11 mm
(1) M20 x 1.5 Liquid tight cord grip for RJ45 connector
(2) Spare BDS-DIN-UPS programming jumpers
(2) 12 VDC, 18 AH sealed valve regulated lead acid AGM non-spillable batteries with 1/4" male fast-on terminals

Reference photo & wiring diagram provided.

1. Mount enclosure on wall (customer supplied hardware)
2. Ensure the AC & both battery disconnect circuit breakers are in OFF position
3. Qty. 4 liquid tight cord grips are provided with the PE enclosure. 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) - use RJ45 cord grip for Ethernet cable.
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 cable thru cord grip, connect to BDS-DIN-UPS 12-10 OUTPUT terminals. (See wiring diagram).
6. Route Ethernet cable through RJ45 cord grip, connect to SPM-200 Ethernet jack (see wiring diagram)
7. Install batteries in to enclosure per photograph
8. Connect battery cables from Battery disconnect circuit breaker #1 and #2 and DC ground terminal blocks to each 12 volt battery per photograph/wiring diagram.
9. Connect the AC power cord to standard 115VAC outlet
10. Turn on AC disconnect circuit breaker and verify BDS-DIN-UPS 12-10 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
11. Confirm the BDA amplifier is receiving power
12. Confirm battery polarity is correct for each 12 volt battery: RED wire to Battery Positive (+) & BLACK wire to Battery Negative (-). Turn on each 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)
13. Verify battery voltage is approximately 13.8 VDC (Float mode)

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