READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

SAVE THESE INSTRUCTIONS!

IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- Do not use outdoors.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

SAVE THESE INSTRUCTIONS!

M-PE48V55AH-UL
As of 010318

15272 Newsboy Circle
Huntington Beach
California 92649

Powering the Network
www.newmartelecom.com

Phone: 714-751-0488
Fax: 714-372-7930
E-Mail: techservice@newmarpower.com

PE-48V-480W-55AH-UL

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

Installation/Operation Manual

- **Prepare To Install**
- **Installation**
- **Install Batteries**
- **BDS-DIN-UPS-48-10 Manual**
- **Cabinet Outline and Mounting**
- **Wiring Guide**

Specifications

Ratings

Input: 120V AC, single phase
Input Frequency: 60 Hz.
Maximum Input: 8.0 Amps *Use Copper Wire Only*

Output

Volts: 55.2V DC
Amps: 4

Rated Operating Time in Emergency Mode

Oper. Time: 4.0A @ 12 Hrs. Max. Load: 4 Amps
Install Only: Leoch Battery # XP-12-210FR Battery

CONFORMS TO
UL STD 924

Intertek
5010145

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Prepare to Install

- **System Contents:** Power Enclosure, Batteries (Packed Separately)
- **Details:** Installation Manual, Located Inside of Door
- **Door Key (x 2):** Attached to One of Enclosure's Bottom Mounting Holes
- **Wiring Accessories:** Polybag Inside Enclosure

Caution: Heavy Equipment

Caution: Contains Batteries

Inspect Shipment Upon Receipt, Notify Carrier if Any Damage!

Material Provided:
(1) NEMA 4X Power Enclosure
(2) NPT-1/2" Liquid tight cord grips, clamping range: 6-11 mm
(2) 12 AWG Brown battery jumpers
(4) 12 VDC, 55 AH sealed valve regulated lead acid AGM non-spillable batteries

Overall Case Dimensions: 30" H x 23" W x 10.5" D
Door Hinge: Left Side

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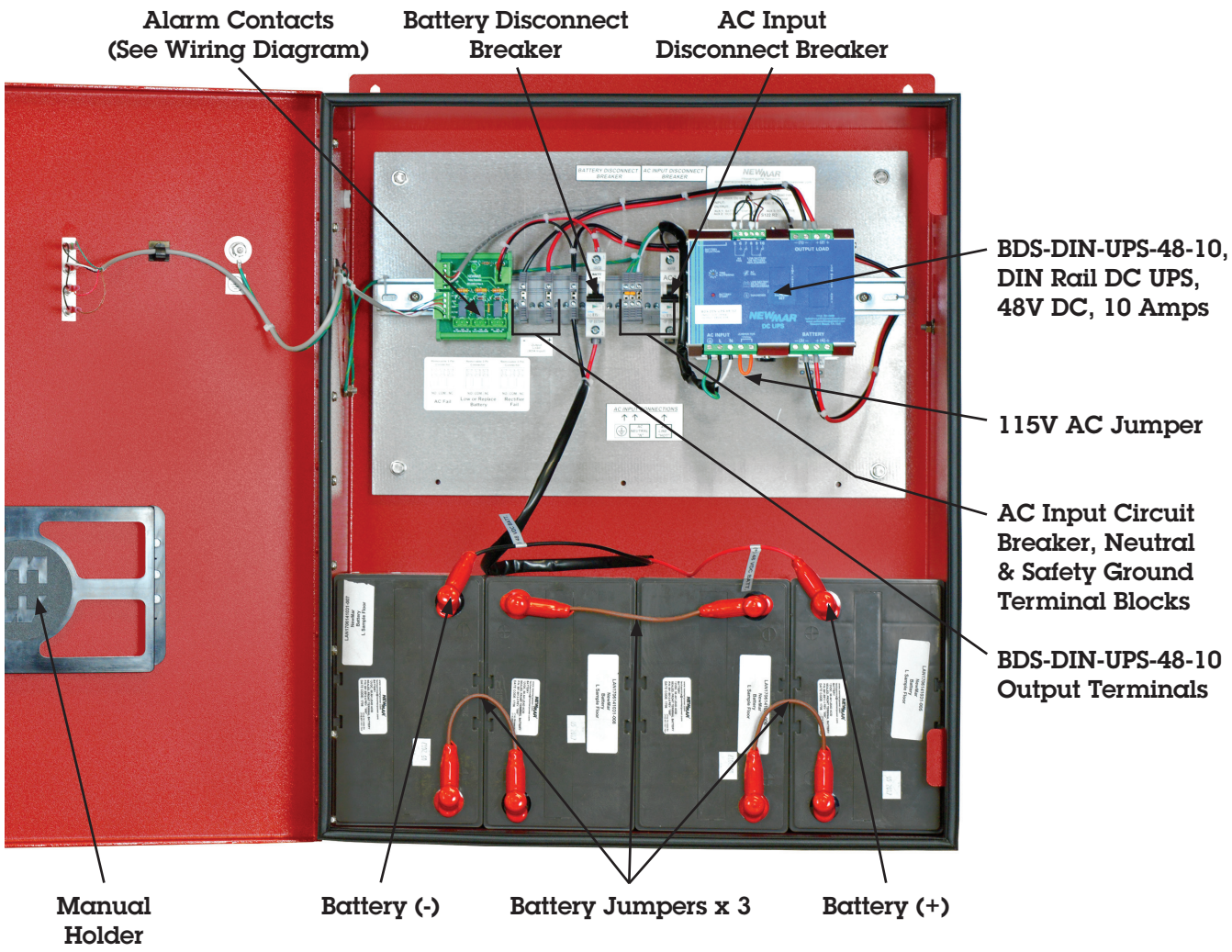
Installation



1. Mount enclosure on wall (customer supplied hardware) - see enclosure mounting drawings
2. Ensure both AC & battery disconnect circuit breakers are in OFF position
3. Qty. 2 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.** DC Output to BDA, installer provided.
   - **B.** Alarm contacts (AC FAIL, BATT. LOW & RECTIFIER/CHARGER FAIL), installer provided.
   - **C.** Site Power Monitor or SPM-200 (optional)
4. Provide 120V AC (15A) circuit to PE System and connect to AC input breaker (Hot) & terminal blocks (Neutral & Earth Ground).
5. Route BDA amplifier DC input cables thru cord grip, connect to "OUTPUT LOAD (BDA INPUT)" terminals
6. Route alarm cables through cord grip, connect to green pluggable alarm terminal blocks (see wiring diagram).

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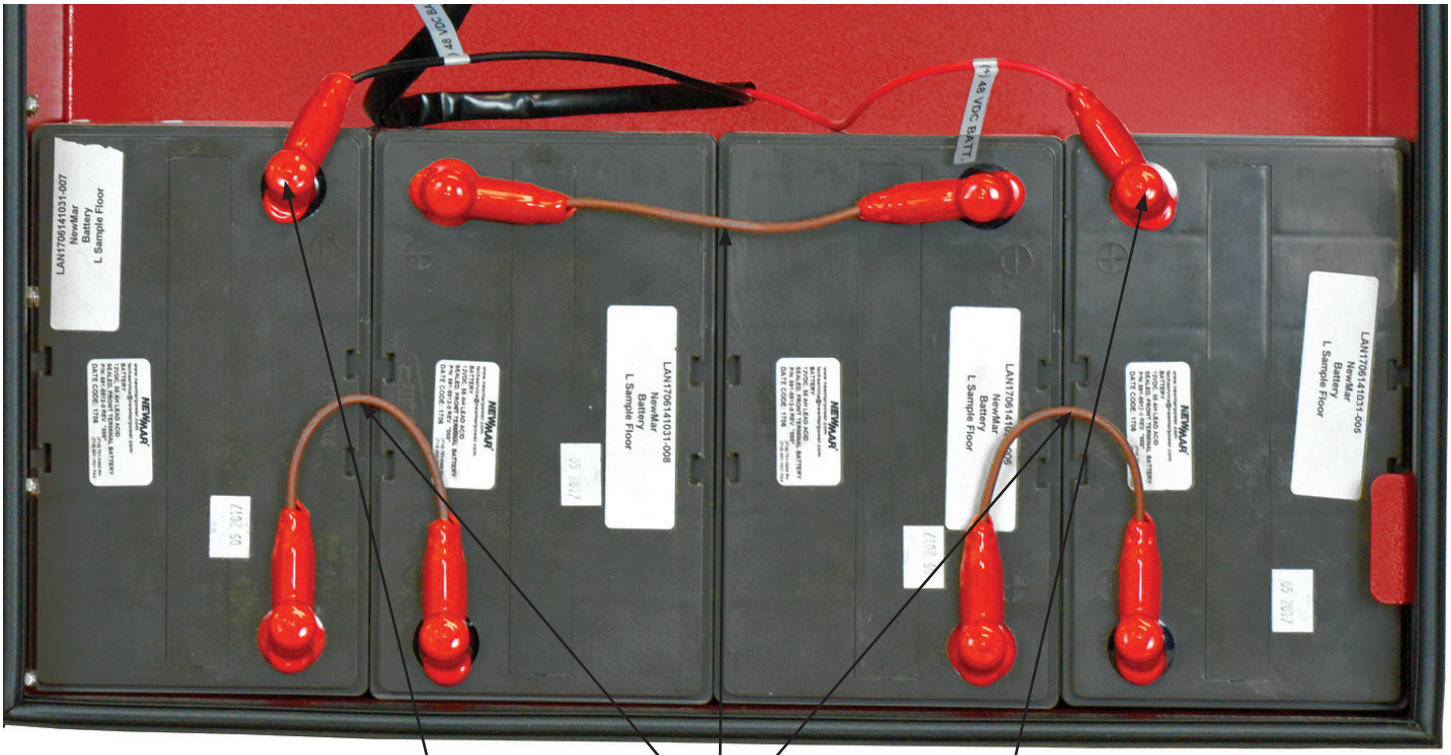
Install Batteries

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. Energize 120V AC circuit
11. Turn on PE System 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 55.2V DC (Float mode)



Battery (-) **Battery Jumpers x 3** **Battery (+)**

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