La Marche Manufacturing Company
www.lamarchemfg.com

LTPB-2
Battery Enclosure

Installation Manual
1 Battery Enclosure Instruction

1.1 Parts

The LTPB-2 battery enclosure contains the following equipment:
2 Battery Enclosure Installation

2.1 11RU Arrangement

2.1.1 Wall Mount

Wall mounting is available using the keyholes at the back of the enclosure. The instructions below detail mounting on a wall.

1. Install the rack brackets to the back of the LTPB-2 enclosure.

2. Using the full size dimension drawings provided (located at the end of the manual) drill four holes, one for each keyhole, and twelve holes for each side bracket. Drawings can be taped to the wall and the reference holes can be drilled straight through the paper.

3. After the holes are drilled, install four bolts (not provided) in the keyhole positions on the wall. Place the LTPB-2 enclosure on the bolts and tighten. Add twelve bolts to each side bracket and tighten.

2.1.2 Rack-Mount Installation

The LTPB-2 enclosure can be rack mounted on a standard 19” relay rack. The instructions below detail mounting on a relay rack.

1. Remove battery enclosure cover. Install the appropriate 19” brackets to the front of the LTPB-2 enclosure.

2. Mount the LTPB-2 enclosure to the relay rack. Leave a sufficient amount of space above the battery enclosure to allow for installation of the rectifier system.

NOTE: When attaching mounting brackets to battery enclosure, La Marche supplied hardware must be used (FLATHEAD SCREW #10-24 0.3125” LONG).
2.1.3 Wiring

Turn off the battery breaker before making any connections within the battery enclosure. Plug in each battery cable connector to the PCB which is located to the right of the breaker. Install each battery using the red and black wires from each battery cable. Shorter cables will be used for the top shelf and longer cables will be for the bottom shelf.

Using the supplied interconnecting controller cables, connect the LTPB-2 to the rectifier system as shown above. The black (-) wire plugs in using a 6 pin connector, the red (+) wire plugs in using a 4 pin connector to the left of the breaker.

With all batteries wired in, slide them to the rear of the enclosure and use velcro straps provided to secure the batteries. Once again ensure that the battery breaker is still off.

Once all battery connections have been made, the battery enclosure cover may be installed. Verifying connections are done properly, the battery breaker can be turned on.

2.1.4 Recommended Battery Voltage and Current Settings

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Amps Hour</th>
<th>Nominal Voltage</th>
<th>Volts per Cell</th>
<th>Current Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>P24B-18-12V</td>
<td>18AH</td>
<td>12V</td>
<td>2.25Vpc</td>
<td>2.5Amps</td>
</tr>
<tr>
<td>P24B-26-12V</td>
<td>26AH</td>
<td>12V</td>
<td>2.25Vpc</td>
<td>4.5Amps</td>
</tr>
<tr>
<td>P24B-35-12V</td>
<td>35AH</td>
<td>12V</td>
<td>2.25Vpc</td>
<td>4.5Amps</td>
</tr>
</tbody>
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NOTE: Refer to battery manufacturer's data sheet for charging voltage.
2.2 5RU Arrangement (w/ optional bracket SP3K-LTPBB2-XX)

2.2.1 Rack-Mount Installation

1. With the battery enclosure in the standard orientation, remove the top and front covers. The PCB card on the top cover will have to be removed and installed on the front cover as shown in the above image. Remove the battery shelf and re-install the front cover of the battery enclosure.

2. Flip the battery enclosure so the open area of the box is now the front, making sure the PCB card is at the top, as seen in the picture above. Install SP3K-LTPBB2-19 (or SP3K-LTPBB2-23) rack mounting brackets to the front of the enclosure with the included hardware.

3. Install the shelf angle brackets to the rear channel of the relay rack with the provided hardware.

4. Slide the LTPB-2 on top of the shelf brackets and mount the battery enclosure to the front channel of the relay rack.
2.2.2 Wiring

Make sure the battery breaker is in the off position. Plug in each battery cable connector to the PCB which is located to the right of the breaker. Install each battery using the red and black wires from each battery cable. Shorter cables will be used for the front batteries and longer cables will be used for the rear batteries.

With all batteries wired in, slide them to the rear of the enclosure and use straps provided to secure the batteries. Once again ensure that the battery breaker is still off.

Using the supplied interconnecting controller cables, connect the LTPB-2 to the rectifier system as shown above. The black (-) wire plugs in using a 6 pin connector, the red (+) wire plugs in using a 4 pin connector to the left of the breaker.

Once all battery connections have been made, the battery enclosure cover may be installed. Verifying connections are done properly, the battery breaker can be turned on.

2.2.3 Recommended Battery Voltage and Current Settings

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