THANK YOU
Thank you for purchasing the UPS-EBPR Expansion Battery Pack. Please read these instructions thoroughly before removing the expansion battery pack from the shipping carton and before installing and making any connections to or from the battery pack.

PRODUCT FEATURES
- Extends runtime of UPS
- Additional output connector allows multiple battery packs to be daisy chained (up to a maximum of ten) to the UPS for even longer extended runtime operation
- Supports rackmount installation using only 2 rackspaces (2U)
IMPORTANT SAFETY INSTRUCTIONS
READ AND SAVE THESE WARNINGS

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

WARNING: The UPS expansion battery pack must be connected to a grounded AC power outlet with fuse or circuit breaker protection. Do not plug the UPS expansion battery pack into an outlet that is not grounded.

WARNING: Remember the Battery Pack is charged. To reduce the risk of electric shock, do not remove the cover. There are no serviceable parts inside the product.

CAUTION: Remember the Battery Pack is charged. Before connecting to the UPS, ensure the circuit breaker/switch on the UPS expansion battery pack is in the OFF position.

CAUTION: Remember the Battery Pack is charged. Do not disconnect the UPS expansion battery pack while the UPS is turned on.

CAUTION: Do not connect the UPS expansion battery pack into itself, as this will damage the battery pack.

CAUTION: The expansion battery pack circuit breaker/switch must be in the OFF position when either making a connection to or disconnecting from either the battery pack 48 VDC input/output connectors or the UPS 48 VDC external battery pack connector.

UNPACKING

CAUTION: DO NOT LIFT THE BATTERY PACK OUT OF THE SHIPPING BOX WHILE HOLDING THE FRONT FACE OF THE BATTERY PACK, AS THIS MAY DAMAGE THE UNIT. LIFT THE BATTERY PACK OUT OF THE SHIPPING CARTON BY HOLDING IT BY BOTH SIDES.

After the product is removed from its packaging, inspect the expansion battery pack before installing. The shipping carton should contain the following items:

(1) Expansion Battery Pack with a permanently attached output 48 VDC cable, (2) rack mounting ears, (2) front handles, (14) 10-32 mounting ear screws, (6) 8-32 front handle screws, (1) instruction sheet
<table>
<thead>
<tr>
<th>Section</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Important safety Instructions</td>
<td>2</td>
</tr>
<tr>
<td>Unpacking</td>
<td>2</td>
</tr>
<tr>
<td>Features</td>
<td>4</td>
</tr>
<tr>
<td>Technical Specifications</td>
<td>5</td>
</tr>
<tr>
<td>FCC Notice</td>
<td>5</td>
</tr>
<tr>
<td>Installation and Mounting</td>
<td>5 - 6</td>
</tr>
<tr>
<td>Connection to UPS</td>
<td>7</td>
</tr>
<tr>
<td>Warranty</td>
<td>8</td>
</tr>
</tbody>
</table>
1 Reset - Resetable circuit breaker, push to reset.

2 AC Input (Charge only) - For optional battery pack charging (faster charge time). Plug an IEC cordset (not supplied) from battery pack into a wall receptacle (120V, 15A).

3 Circuit Breaker/Switch - Switches battery pack on or off. The circuit breaker/switch must be in the OFF position when either making a connection to or disconnecting from either the battery pack 48 VDC input/output connectors or the UPS 48 VDC external battery connector.

4 AC Output - Multiple battery packs can be daisy chained for charging using IEC cordset (not supplied). A maximum of ten (10) battery packs can be daisy chained for charging.

**NOTE:** Signal-Safe™ power cords are available from Middle Atlantic Products in 12" lengths (Part No. IEC-12xX) for daisy chaining of multiple battery packs.

5 Output 48 VDC - 48 VDC external battery connector cable. Connects to UPS 48 VDC connector for extended UPS runtime and for battery pack charging. Cable connector is color coded (red, black, green).

6 Battery Pack 48 VDC Input Connector - Connector allows battery packs to be daisy chained for extended UPS runtime operation. A maximum of ten (10) battery packs can be daisy chained.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>PRODUCT CHARACTERISTICS</th>
<th>VALUE/MEASUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>2U Rack: 17.05 In. x 3.5 In. x 18.9 In. (43.3 cm x 8.8 cm x 48 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>70.5 Lb. (32 kg.)</td>
</tr>
<tr>
<td>Battery</td>
<td>Sealed maintenance free lead acid battery (12V/9.0 AH x 8)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32°F to 104°F (0°C to 40°C)</td>
</tr>
<tr>
<td>Operating Relative Humidity</td>
<td>0 to 95% non-condensing</td>
</tr>
</tbody>
</table>

## FCC NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference that may cause undesired operation.

**WARNING!!** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## INSTALLATION AND MOUNTING

1. If using the provided handles install them now using provided 8-32 screws. (FIGURE A)

   **NOTE:** The handles cannot be installed after the unit is rack-mounted.

2. Install ears as shown using provided 10-32 screws. Six screws per ear, one ear per side.

   **NOTE:** The battery pack should be located directly below the UPS in the rack in order to connect the 48 VDC output cable to the UPS as shown in Figure A. If installing the battery pack and the UPS is located in the bottom of the rack, the UPS should be moved before installing the expansion battery pack.
INSTALLATION AND MOUNTING CONTINUED

CAUTION: THIS UNIT IS HEAVY, LIFT CAREFULLY

Do not lift from the face of the unit, this will detach the face and could cause the unit to drop

One Person Installation:

1) Determine mounting location.
2) Install the Rear Mounting Brackets as shown. One Bracket is longer than the other to provide guidance when doing a one person installation. These brackets are interchangeable. (FIGURE A)
  IMPORTANT NOTE: Rear Mounting Brackets mount between the two corresponding rackspaces in the front of the enclosure. (FIGURE B)
3) Carefully lift the unit to the mounting position constantly supporting the bottom. Place the slide on the unit's ear onto the longer Rear Mounting Bracket then guide the unit onto the other Rear Mounting Bracket. Once the ears and the Rear Mounting Brackets are fully engaged, slide to unit to the back of the enclosure.
4) Install the front of the unit to the rackrail. (FIGURE C)

Two Person Installation:

1) Determine mounting location.
2) Properly support the unit from the bottom and carefully lift to the mounting location.
3) While adequately supporting the bottom, install the front of the unit to the rackrail. (FIGURE D)
4) Install the Rear Mounting Brackets as shown. Continue to support the bottom of the unit. (FIGURE E)
  IMPORTANT NOTE: Rear Mounting Brackets mount between the two corresponding rackspaces in the front of the enclosure. (FIGURE B)
CONNECTION TO UPS

1) On the expansion battery pack, ensure the circuit breaker/switch is in the OFF position and the UPS is also turned off and not plugged into an AC wall receptacle.

2) Connect the expansion battery pack 48VDC Output cable to the UPS Input 48VDC connector.

**NOTE:** Connectors are color coded (red, black,& green). Ensure connectors are secured to each other per matching color (red to red, black to black & green to green).

3) To have the UPS recognize the expansion battery, press and hold the select button until the six icons appear. Press the select button one time, then press and hold the select button until the six icons blink. Press the select button to enter the number of expansion battery packs being connected (ten maximum).

4) To save the value, press and hold the Select button until the LCD displays the General Status Mode Input Voltage Display.

5) Return the circuit breaker/switch to the ON position.

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**FIGURE A. EXPANSION BATTERY PACK TO UPS CONNECTION.**
WARRANTY

Middle Atlantic Products, Inc. (the "Company") warrants the UPS-EBPR UPS Expansion Battery Pack to be free from defects in material or workmanship under normal use and conditions for a period of (2) two years from date of shipment by the Company.

The Company's entire liability to the purchaser, and the purchaser's (or any other parties) sole and exclusive remedy, under this warranty shall be limited, at the Company's option, to either (a) return of and refund of the price paid for, or (b) repair or replacement at the Company's factory of the products purchased, or any part or parts thereof, which the Company has determined to be defective after inspection thereof at the Company's factory.

This warranty does not cover damage due to acts of God, accident, misuse, abuse or negligence by parties other than the Company, or any modification or alteration of the products. In addition, this warranty does not cover damage due to improper handling, assembly, installation or maintenance.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF THE PRODUCTS PURCHASED, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE COMPANY'S LIABILITY TO THE PURCHASER (OR ANY OTHER PARTY) HEREUNDER, IF ANY, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCTS PAID TO THE COMPANY.

Corporate Headquarters
Corporate Voice 973-839-1011 - Fax 973-839-1976
International Voice +1 973-839-8821 - Fax +1 973-839-4982
middleatlantic.com - info@middleatlantic.com

Middle Atlantic Canada
Voice 613-836-2501 - Fax 613-836-2690
middleatlantic.ca - contactcanada@middleatlantic.com

Factory Distribution
USA: NJ - CA - IL Canada: ON - BC

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