Installation
MGE™ Galaxy™ 3500 and Smart-UPS® VT
Parallel System Maintenance Bypass Panel
Wall Mount
10-40 kVA 400V

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

Warning: ALL safety instructions in the Safety Sheet (990-2940) must be read, understood and followed when installing the UPS system. Failure to do so could result in equipment damage, serious injury, or death.

Heavy: APC recommends that two people mount the MBP to the wall to lift and hold the enclosure and to secure it to the wall.

Caution: All electrical power and power control wiring must be installed by a qualified electrician, and must comply with local and national regulations for maximum power rating.

Site Planning

Note: APC strongly recommends mounting the MBP to a minimum 20 mm thick plywood board or similar solid backing that has approximate dimensions.

Note: Ensure that the wall area you selected to install the MBP is structurally sound and able to support the size and weight of the unit.

Note: Protect the MBP at all times from excessive moisture, construction dirt, corrosive elements, or other contaminants.

Note: When choosing a location to mount the MBP, consider the need for easy access to all of the switches and internal components.

Space requirements

Refer to the following figure to determine the space requirements for installing the MBP. Consult local codes for any additional requirements. Ideally, install the MBP in a location close to the UPS.

Note: Up to three UPS units can be installed in parallel with this bypass panel.
Prepare for cables

Note: All external cable connections with the UPS and mains must be made on-site. External cables are not supplied with the equipment.

Note: All control wire connections between the UPS and the MBP must be made on-site. Control cables (30 m) for MBP I/O boards are supplied with the equipment.

Create knockouts for cable access

Note: You can create knockouts for cable access either before or after you have mounted the MBP to the wall. APC recommends creating all necessary knockouts prior to mounting the MBP to the wall.

1. Open the front door.
2. Remove the narrow front cover.
3. Use a knockout punch to create appropriate-sized holes for the cables/conduits (38 or 76 mm) in either the top or bottom plates of the MBP.

Mount the MBP to the wall

1. Mount the plywood (or other backing) to the wall using appropriate hardware for the type of wall used.
2. Measure and mark the four mounting hole locations on the wall.
3. Drill holes in each of the four marked locations.
4. Lift the MBP, position it against the backing and line it up with the four holes. Secure with the four M8 bolts and flat washers.

Connect Power Cables

See Also: For information on grounding, see manual 990-3606.

1. Route the cables through the top or bottom of the MBP.
2. Connect UPS output cables (L1, L2, L3, N, G) from up to three UPS units to the UPS output terminals (X002, X003, X004) and the ground and neutral busbars.
3. Connect mains input cables (L1, L2, L3, N, G) to the mains input terminals (X001) and the ground and neutral busbars.
4. Connect critical load cables (L1, L2, L3, N, G) to the critical load terminals (X005) and the ground and neutral busbars.
Connect Communication Cables

1. Route the A-bus cables (sub RJ50-D15) from the A-bus on the UPS terminal parallel communication box through the top or bottom plates of the UPS and to the MBP CAN.

2. Connect the A-bus cables to the X134A connectors on the MBP CAN I/O boards.

Specifications

<table>
<thead>
<tr>
<th>Electrical</th>
<th>SBPAR10K20H-WP 60kVA</th>
<th>SBPAR30K40H-WP 120kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nom. input voltage</td>
<td>400/230 V</td>
<td>400/230 V</td>
</tr>
<tr>
<td>L1,L2,L3,N,PE</td>
<td>L1,L2,L3,N,PE</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>System switches ratings</td>
<td>100 A</td>
<td>200 A</td>
</tr>
<tr>
<td>UPS switches ratings</td>
<td>40 A</td>
<td>63 A</td>
</tr>
<tr>
<td>Wiring (only use copper conductors suitable for at least 75°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum cable size</td>
<td>70 mm²</td>
<td>2x70 mm²</td>
</tr>
<tr>
<td>System output/UPS output cable</td>
<td>35/10 mm²</td>
<td>95/16 mm²</td>
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Warning: At 100% switch mode load, the system/UPS neutral connections must be rated for 173% phase current.

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</tr>
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<tbody>
<tr>
<td>Dimensions (H × W × D)</td>
<td>1174 x 560 x 216 mm</td>
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</tr>
<tr>
<td>Shipping dimensions (H × W × D)</td>
<td>1298 x 704 x 335 mm</td>
<td>1298 x 704 x 335 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>48 kg</td>
<td>53 kg</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>50 kg</td>
<td>55 kg</td>
</tr>
</tbody>
</table>

Environmental

- Operating environment: Indoor use only, protect from water and conductive contaminates
- Operating temperature: 0° to 40°C (32° to 104°F)
- Humidity: 0 to 95%, non-condensing

Contact Information

For local, country-specific centers: go to www.apc.com/support/contact.