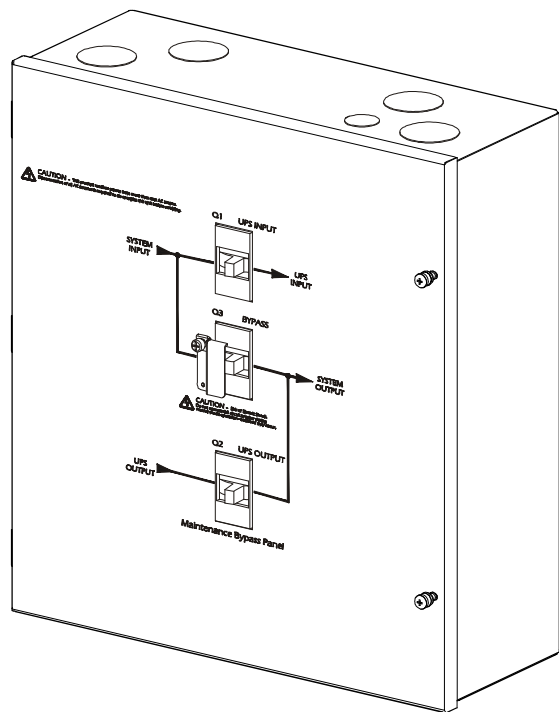


Installation

MGE™ Galaxy™ 3500 and Smart-UPS® VT System Maintenance Bypass Panel Wall Mount 10-15 kVA 208 V, 10-30 kVA 208 V



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 Maintenance Bypass Panel (MBP) to the wall—one person to lift and hold the enclosure, and a second person to secure it to the wall.



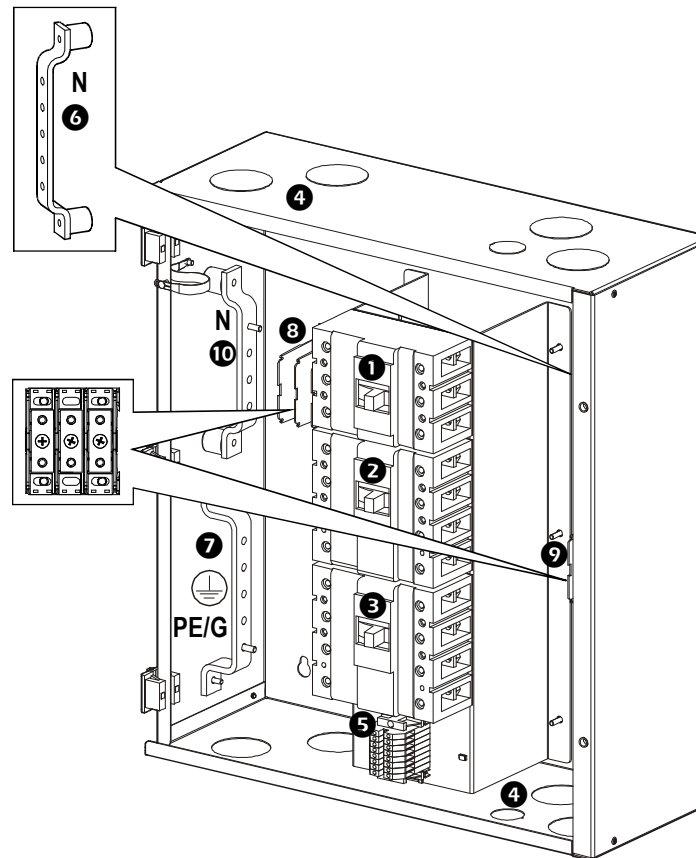
Caution: All electrical power and power control wiring must be installed by a qualified electrician, and must comply with local and national regulations for maximum power rating.



Caution: Operation and maintenance must only be performed by qualified personnel.

Product Overview

Front view (interior)



- | | |
|--|-------------------------|
| 1 Q1 input breaker | 6 Output neutral busbar |
| 2 Q3 bypass breaker. A Philips screwdriver is required to unlock Q3. | 7 PE/ground busbar |
| 3 Q2 output breaker | 8 Mains input |
| 4 Knockouts for conduits | 9 Critical load |
| 5 Control terminal block | 10 Input neutral busbar |

Site Planning



Note: APC strongly recommends mounting the MBP to a minimum 20 mm (3/4 in) 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.



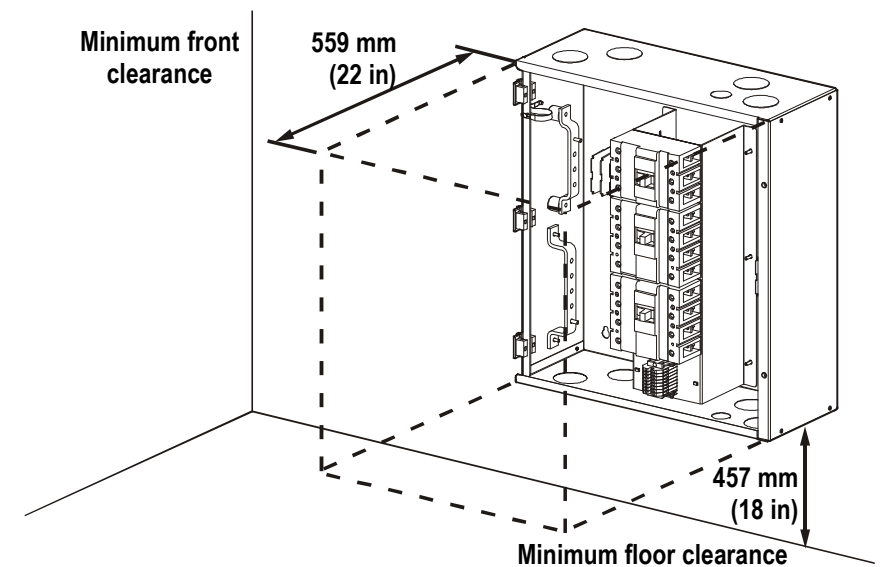
Note: Protect the MBP at all times from excessive moisture, construction dirt, corrosive elements, or other contaminants.



Note: When choosing a location to mount the MBP, consider the need for easy access to all breakers 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.



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.



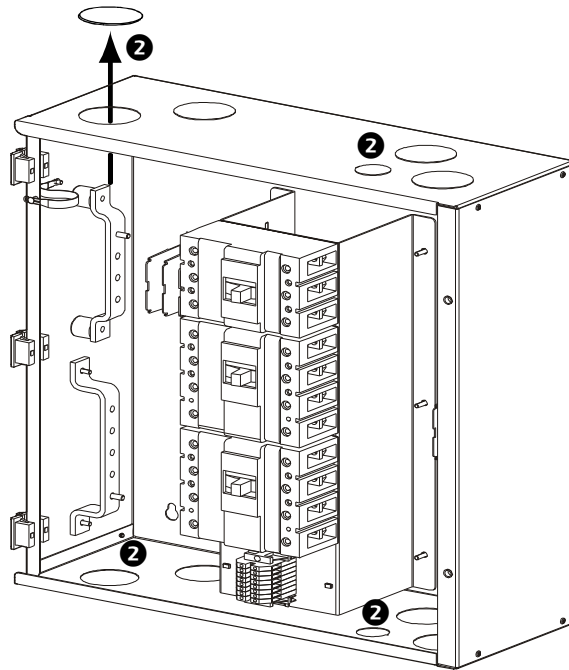
Note: All control wire connections between the UPS and the MBP must be made on-site. Control wires are not supplied with the equipment.

Create knockouts for cable access



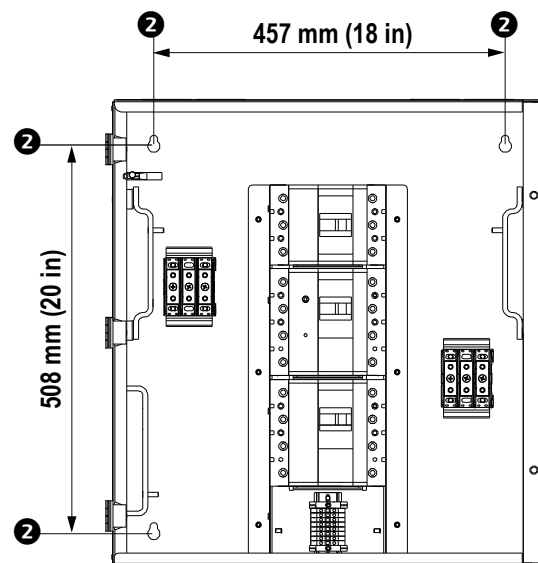
Note: You can create knockouts for cable access either before or after you have mounted the MBP to the wall. APC recommends creating all necessary knockouts prior to mounting the MBP to the wall.

- 1 Open the front door.
- 2 Use a knockout punch to create appropriate-sized holes for two inch and one inch cable conduits in either the top or bottom plate of the MBP.



Mount the MBP to the wall

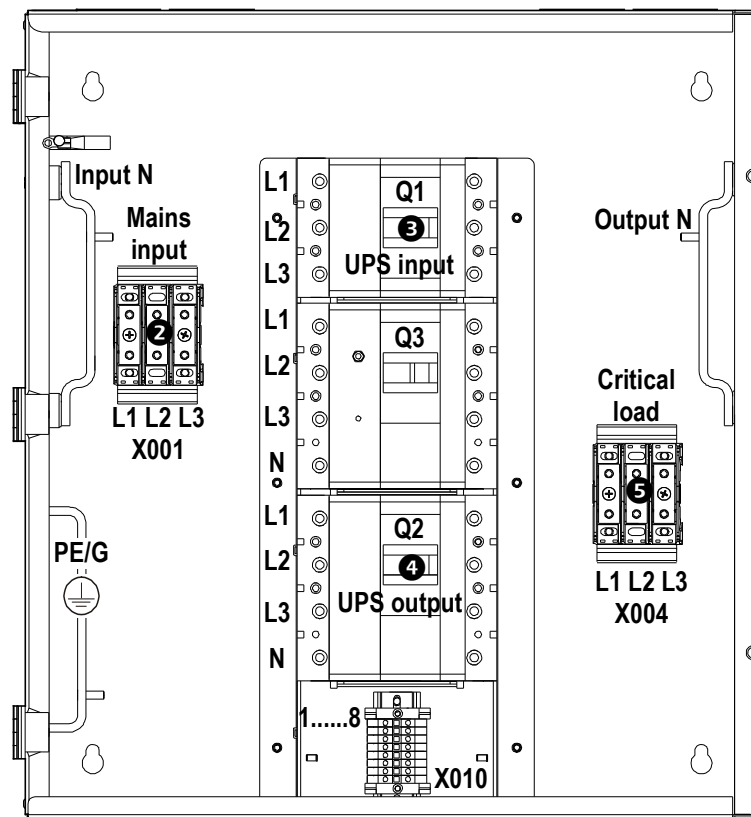
- 1 Mount the plywood (or other backing) to the wall by using appropriate hardware for the type of wall used.
- 2 Measure and mark the four mounting hole locations on the wall.
- 3 Drill holes in each of the four marked locations.
- 4 Lift the MBP, position it against the backing and line it up with the four mounting holes. Secure the MBP with four M8 (3/8 in) bolts and flat washers.



Connect Power Cables



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



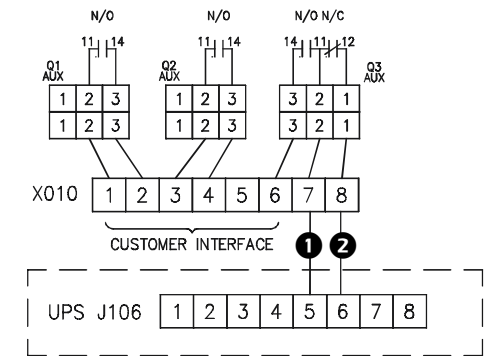
- 1 Route the cables through the top or the bottom of the MBP.
- 2 Connect the mains input cables (L1, L2, L3, N, G) to the mains input terminals (X001), the input neutral, and the ground busbar.
- 3 Connect the UPS input cables (L1, L2, L3, N, G) to the right side of the Q1 breaker, the input neutral, and the ground busbar.
- 4 Connect the UPS output cables (L1, L2, L3, N) to the left side of the Q2 breaker, the output neutral, and the ground busbar.
- 5 Connect the cables from the critical load (L1, L2, L3, N, G) to the critical load terminals (X004), the output neutral, and the ground busbar.

Connect Communication Cables



Note: For the connection of a Q3 auxiliary signal, use a 1-1.5 mm² (18-16 AWG) copper wire.

- 1 Connect a copper wire between the UPS (J106 port 5) and the MBP (X010 port 7 on the control terminal block).
- 2 Connect a copper wire between the UPS (J106 port 6) and the MBP (X010 port 8 on the control terminal block).



Specifications

| Electrical | SBPSU10K15F-WP 10-15 kVA | SBPSU20K30F-WP 20-30 kVA |
|--|--|--|
| Nom. input voltage | 208/220V 4W+GND | 208/220V 4W+GND |
| Nom. output voltage | 208/220V 4W+GND | 208/220V 4W+GND |
| Circuit breaker rating | 60A | 125A |
| Wiring (only use copper conductors suitable for at least 75°C) | | |
| Maximum cable size | 50 mm ² (1/0 AWG) | 150 mm ² (300 Kcmil) |
| System output/ UPS output cable | 25 mm ² (4 AWG) | 50 mm ² (1 AWG) |
| System input/UPS input cable | 25 mm ² (4 AWG) | 50 mm ² (1 AWG) |
| Physical | | |
| Dimensions (H x W x D) | 617 x 561 x 216 mm (24.3 x 22.1 x 8.5 in) | 617 x 561 x 216 mm (24.3 x 22.1 x 8.5 in) |
| Shipping dimensions (H x W x D) | 719 x 667 x 330 mm (28.3 x 26.25 x 13 in) | 719 x 667 x 330 mm (28.3 x 26.25 x 13 in) |
| Weight | 23.6 kg (52 lbs) | 28.1 kg (62 lbs) |
| Shipping weight | 25.9 kg (57 lbs) | 30.4 kg (67 lbs) |

Environmental

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

Torque value

| | |
|--------------------------------|----------------------|
| Terminal blocks (M6 x 15 stud) | 6.89 Nm (61 lbs in) |
| Busbars M6 | 11.3 Nm (100 lbs in) |
| Breaker T1 | 5 Nm (45 lbs in) |
| Breaker T3 | 9 Nm (80 lbs in) |

Contact Information

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

Appendix

MBP diagram

