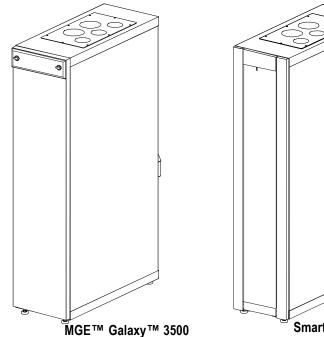
Product Overview

Installation

MGE[™] Galaxy[™] 3500 and Smart-UPS[®] VT Parallel Maintenance Bypass Panel **Floor Mount** 45 kVA and 90 kVA 208 V



45 kVA and 90 kVA

Smart-UPS[®] VT 45 kVA and 90 kVA

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS



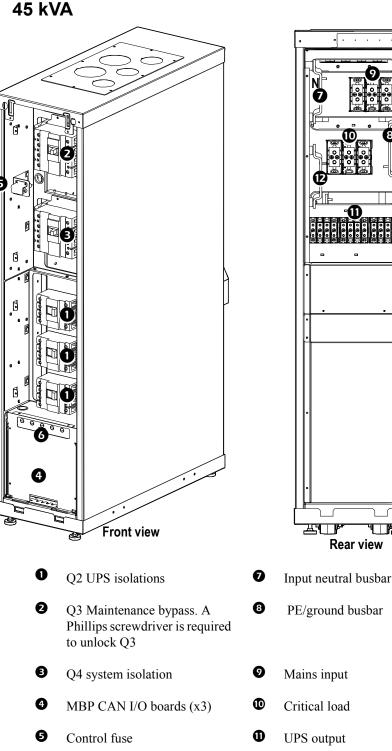
Warning: ALL safety instructions in the Safety Sheet (990-2940) must be read, understood and followed when installing the UPS system. Failure to do so could result in equipment damage, serious injury, or death.



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.



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Output neutral busbar

ч**ш**н Rear view

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PE/G



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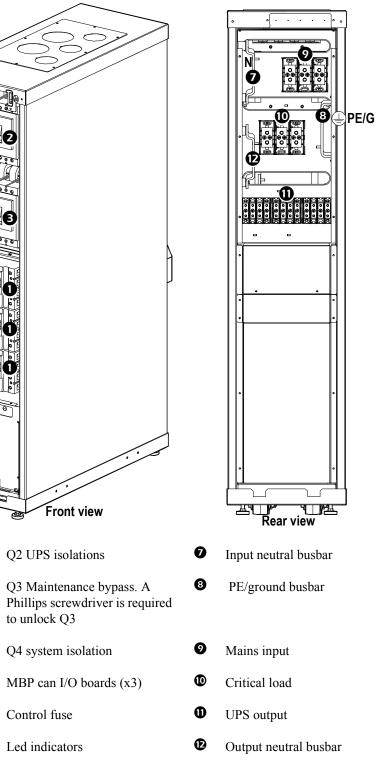
990-3601A-001



6

Led indicators

90 kVA

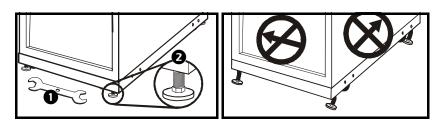


Note: Refer to the UPS Receiving and Unpacking sheet (990-2940 for MGE Galaxy 3500 and 990-1747 for Smart-UPS VT) to determine the space requirements for the MBP. Consult local codes for any additional requirements. Ideally, install the MBP in a location close to the UPS.

Level the Enclosure



Warning: The system must be installed on a level floor. The leveling feet will stabilize the enclosure, but will not account for a badly sloped floor.



- **1** Use a 13/14 mm wrench to adjust the four leveling feet.
- **2** Ensure that the system is level.



Caution: Do not move the enclosure after the leveling feet have been lowered.

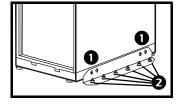
Floor Anchoring (if applicable)

Anchor the MBP enclosure to the floor



Note: Floor-anchoring bolts are not provided with the Maintenance Bypass Panel (MBP). Purchase the bolts locally (minimum size: M8). Follow the specifications given by the manufacturer when bolting the UPS system to the floor.

1 Reuse the two transport brackets (one on each side) that were used to secure the UPS to the pallet during transport.



2 Drill two to six holes in the floor for each bracket. Attach with bolts.



For seismic applications, see the APC website for seismic requirements.

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 shipment.

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

Create knockouts for cable access

1Remove the front panel.

2Remove the top

or bottom cover.

BUse a knockout punch to create appropriate-sized holes for the

cables/conduits in either the top or bottom cover of the MBP.

4Remove the left or right side panel.

GRemove the left or right inner panel.

GInstall conduits (if applicable) and re-install all the covers.

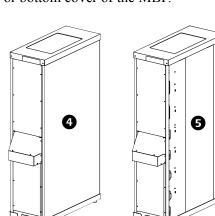
Run the Cables

only)

1Remove the

upper rear cover.

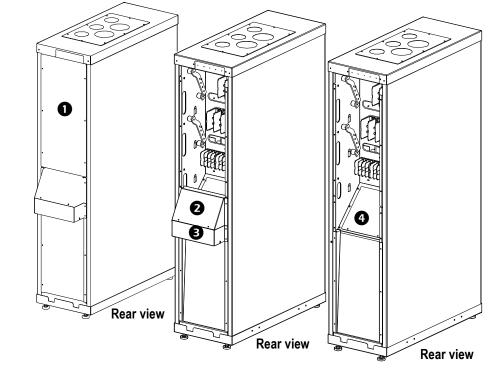
2Remove the top

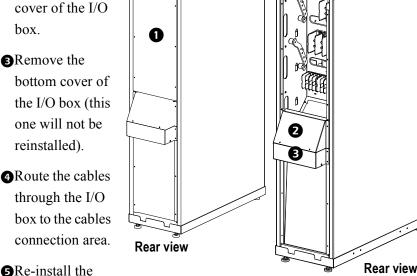


- Remove the upper rear cover.
- **2**Run the cables through the top cover to the cable connection area.
- BRe-install the upper rear cover.

Bottom

- **G**Re-install the I/O box.

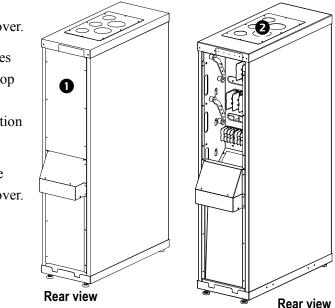




Cable entry through the I/O box (UPS cables

top cover of the I/O box.

Top cable entry (input and output cables only)



cable entry (input and output cables only)

• Remove the upper rear cover.

2Remove the top cover of the I/O box.

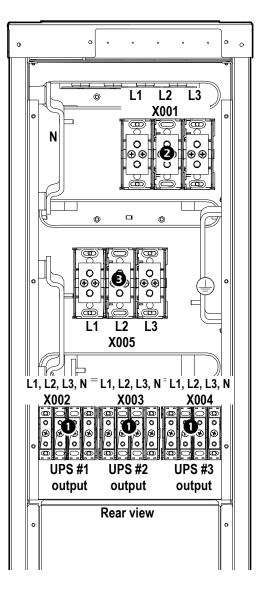
BRemove the bottom cover of the I/O box.

A Remove the plate which blocks for cable access from the bottom.

SRoute the cables through the bottom to the cable connection area.

Connect Power Cables

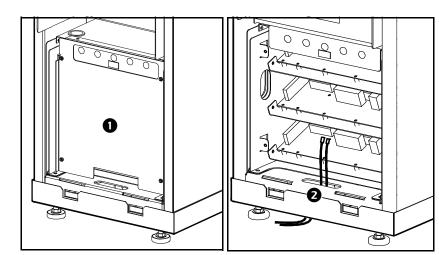
- Connect the UPS output from up to three UPS units (L1, L2, L3, N, G) to the UPS output terminals and the ground busbar.
- **2**Connect cables from the mains supply (L1, L2, L3, N, G) to the maintenance bypass terminals and the ground and input neutral busbars.
- **B**Connect cables from the critical load (L1, L2, L3, N, G) to the load terminals and the ground and output neutral busbars.



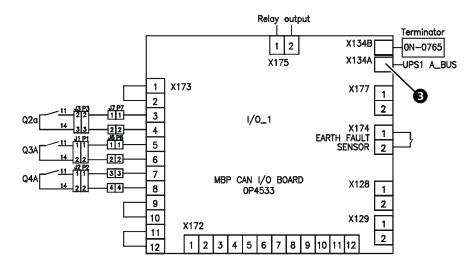
Connect Communication Cables

Remove the bottom cover.

2Run the communication cables through the hole in the bottom front.



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



Specifications

Electrical

- Voltage rating
- Wiring (only u
- Maximum cab
- Mains input ca
- UPS input cab
- System output
- UPS output ca

Warning: At 1

Physical

Dimensions $(H \times W \times D)$

Weight

Shipping dime

Shipping weig

Environment

Operating envi

Operating tem

Humidity

Torque value

Terminal block X002, X003, X

Terminal block X001, X005

Busbars M6

Contact Information

contact.

	45 kVA	90 kVA	
5	208/220 V 4W+GND	208/220 V 4W+GND	
use copper conductors suitable for at least 75°C)			
ble size	4/0 AWG	2 x 4/0 AWG	
able	4/0 AWG	2 x 4/0 AWG	
ble	4 AWG	1 AWG	
t	4/0 AWG	2 x 4/0 AWG	
able	4 AWG	1 AWG	
100% switch mode load, the system neutral connections			

must be rated for 173% phase current.

	1487 x 352 x 837 mm (58.5 x 14 x 33 in)	1487 x 352 x 837 mm (58.5 x 14 x 33 in)	
	159 kg (350 lbs)	191 kg (420 lbs)	
ensions	1664 x 864 x 1219 mm (65.5 x 34 x 48 in)	1664 x 864 x 1219 mm (65.5 x 34 x 48 in)	
ght	194 kg (426 lbs)	225 kg (496 lbs)	
tal			
ironment	Indoor use only, protect from water and conductive contaminates		
perature	0° to 40°C (32° to 104°F)		
	0 to 95%, non-condensing		
ks X004	6.89 Nm (61 lb in)		
ks	25.7 Nm (192 lb in)		
	11.3 Nm (100 lbs in)		

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

Appendix

Diagram

