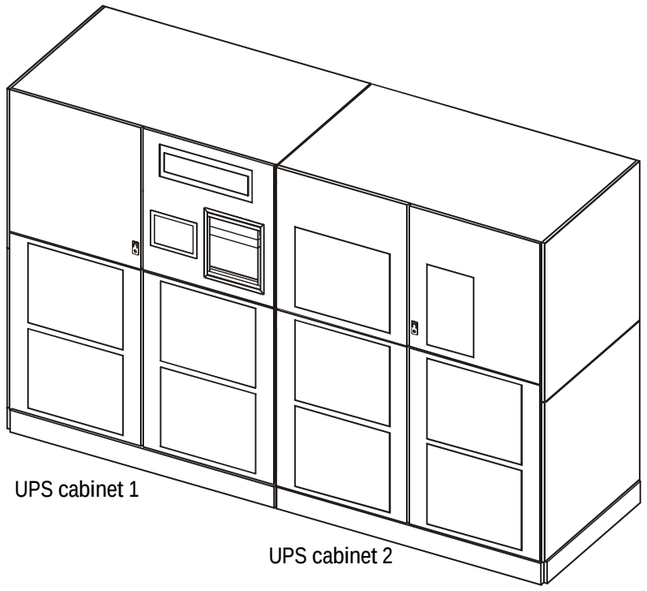
Installation

EPS 8000 1000/1100 kVA 480 V Multi Module

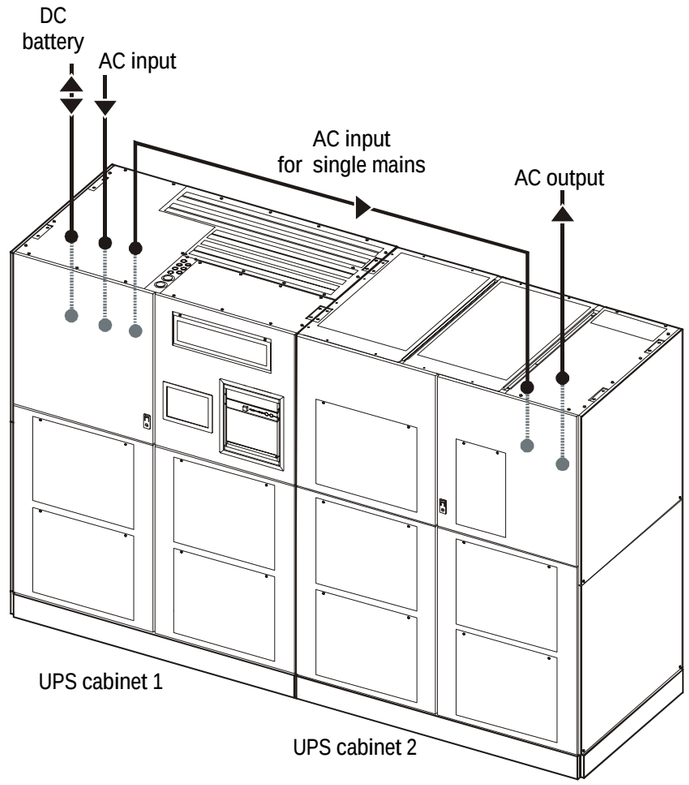


IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

Warning: ALL safety instructions in the Safety Sheet (990-3514) 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.

Overview of Cables

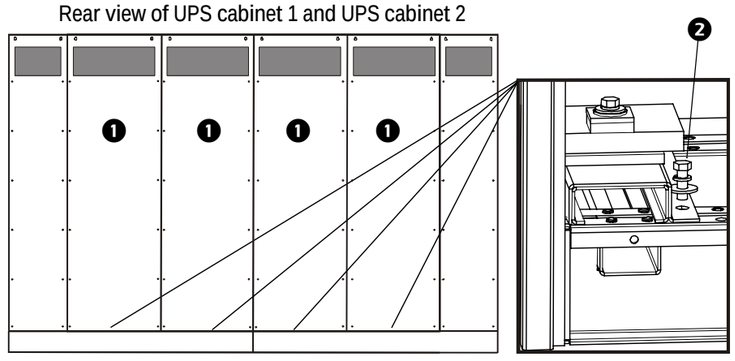


Remove the Rear Shipping Bolts

❶Remove the four rear covers of UPS cabinet 1 and UPS cabinet 2 and set aside.

❷From the back, remove the four shipping bolts.

Rear view of UPS cabinet 1 and UPS cabinet 2



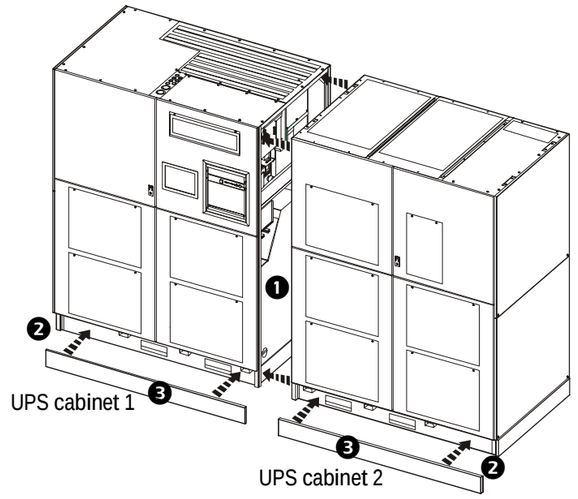
❸Reinstall the four rear covers.

Level the Cabinets

❶Move the cabinets together.

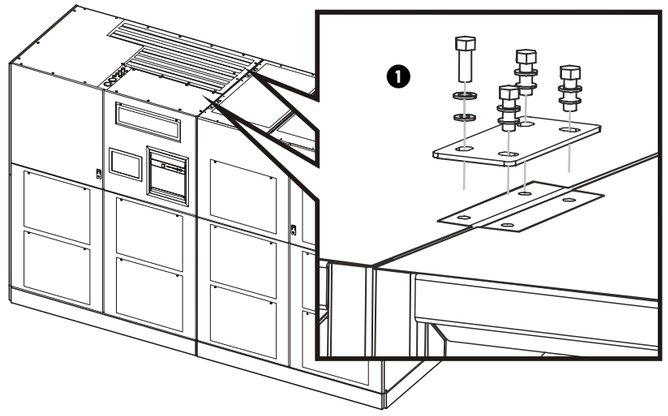
❷Level the cabinets with leveling shims.

❸Install the provided foot panels.



Interconnect the Cabinets

❶Install the two top securing brackets between UPS cabinet 1 and 2.



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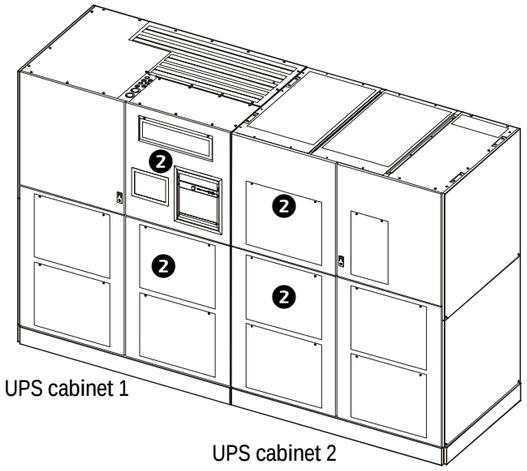
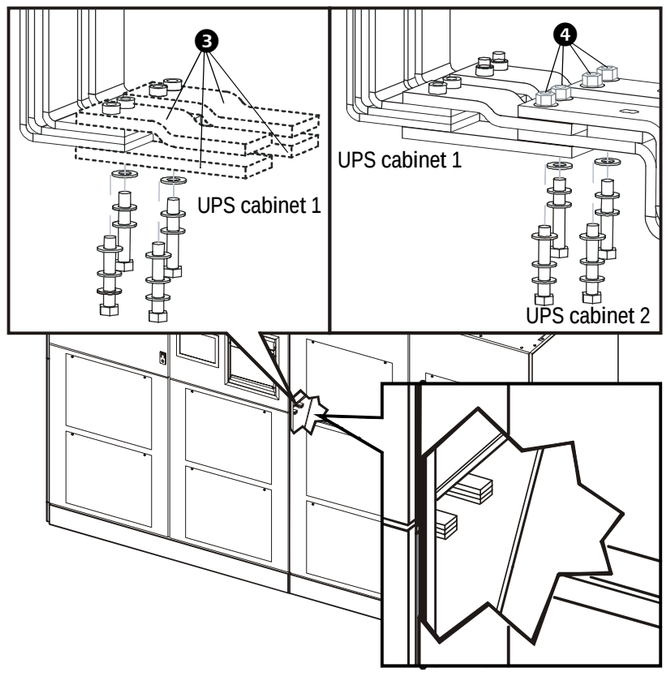
❷Open the two right front covers on UPS cabinet 1 and the two front left covers on UPS cabinet 2 in preparation for step 3 to 6.

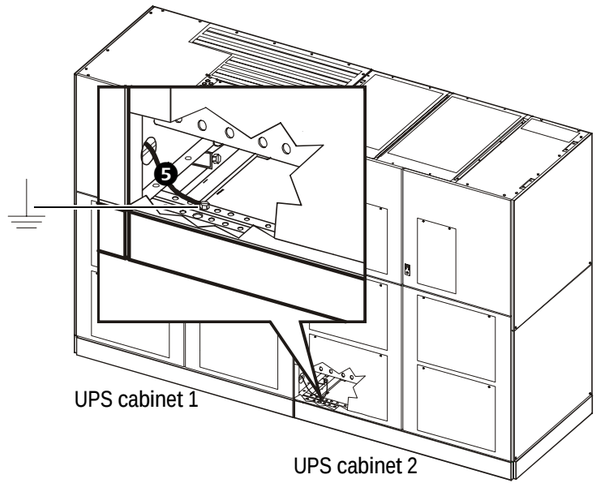


❸Connect the four interconnection busbars to UPS cabinet 1. The busbars are provided with UPS cabinet 1.

❹Connect the busbars to UPS cabinet 2.

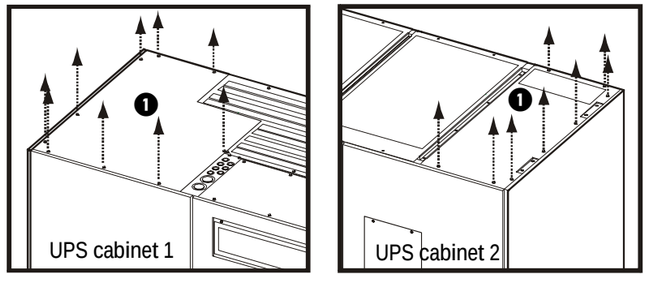


❺Route the ground cable from UPS cabinet 1 through the side panel and connect it to UPS cabinet 2.



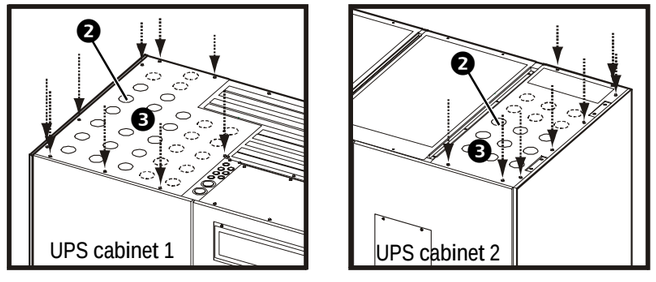
Prepare for Cables

❶From the front, remove the left top cover of UPS cabinet 1 and the right top cover of UPS cabinet 2.



❷Punch holes for conduits in the two top covers.

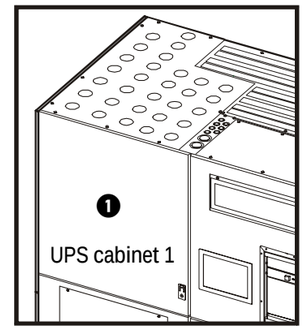
❸Re-install the top covers with the conduits installed.



Connect the AC Input Cables

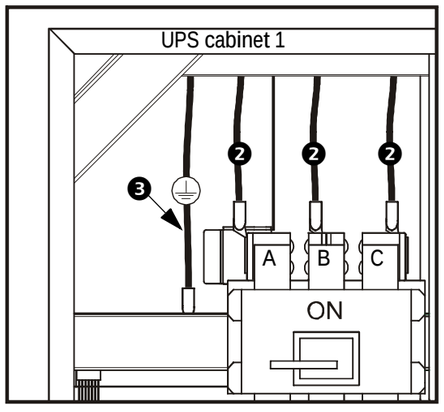
Note: Cables shown are for graphical representation only and do not represent the actual quantities to be used for the installation.

❶Open the upper left front cover of UPS cabinet 1.



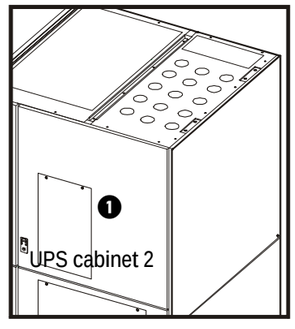
❷Connect the AC input cables to the input cable landings.

❸Connect the Protective Earth (PE) cables.



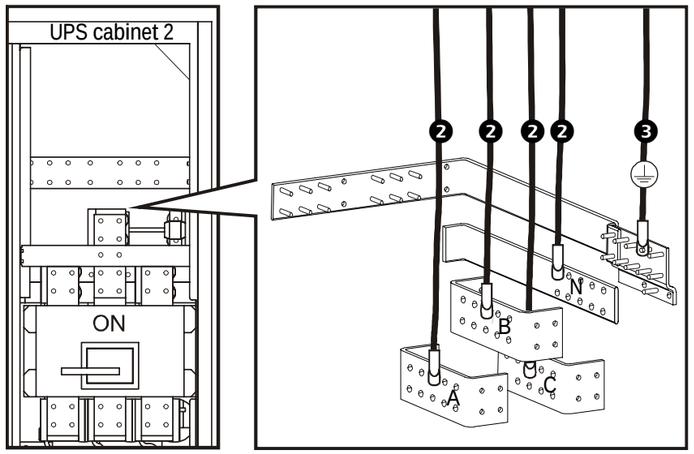
Connect the AC Output Cables

❶Open the upper right front cover.



❷Connect the AC output cables to the output cable landings.

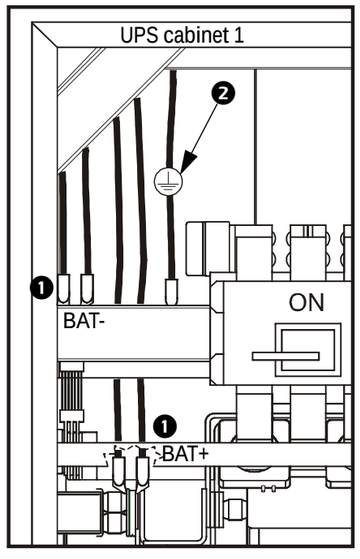
❸Connect the Protective Earth (PE) cable. The cable can be connected either at the front (as shown) or at the rear of the busbar.



Connect the DC Battery Cables

❶Connect the BAT- and BAT+ cables to the battery cable landings.

❷Connect the ground cable.

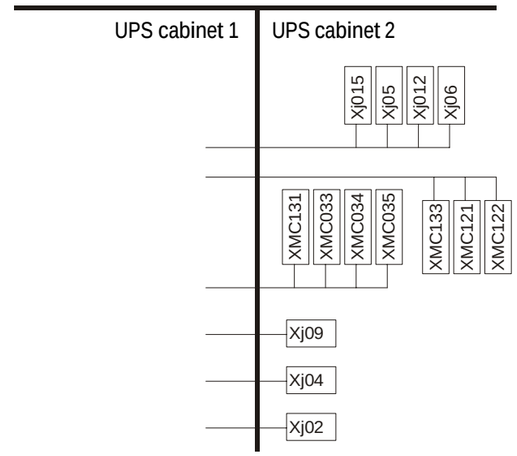


Connect the Communication Cables

The communication cables are connected to cabinet 1 and are located on the right side of cabinet 1.

❶Route the communication cables from cabinet 1 through the side panel to the communication boards in cabinet 2.

❷Connect the communication cables to the following terminals:



Specifications

AC input

Rating (kVA/kW)	1000/900	1100/990
Input frequency (Hz)	60	60
Nominal input current (A)[1]	1300	1438
Max input current (A)[2]	1446	1584

[1] Input current based on rated load and batteries fully charged.
[2] Input current based on full battery recharge, nominal voltage and rated load.

AC output

Rating (kVA/kW)	1000/900	1100/990
Output frequency (Hz)	60	60
Nominal output current (A)	1203	1323

Battery input

Battery input	1000/900	1100/990
Nom voltage (V)	480 V	480 V
I_{Nom} discharge[1]	1993 A	2187 A
I_{Max} discharge[2]	2392 A	2625 A
End Voltage	400 V	400 V

[1] Nominal battery discharge current based on rated load and nominal battery voltage.
[2] Maximum battery discharge current based on rated load at the end of the discharge.

Recommended cable sizes

Caution: All wiring must comply with all applicable national and/or electrical codes.

Minimum temperature rating of conductors: 90°C/194°F. Refer to table 310-16 of NEC, 75°C column for maximum ampacity. Use only copper conductors. Ground wires are sized in accordance with NEC Article 250-122 and Table 250-122.

Use applicable national and local codes for type and size of conductor to use for installation.

Power and control cables must be routed in separate conduits.

Torque specifications

Bolt size	Torque
3/8	39.54 Nm (350 in)

Contact Information

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