

Bottom Entry Cabinet

For Galaxy PX and Easy UPS 3-Phase Modular

Installation

SP3BBEC

Latest updates are available on the Schneider Electric website
5/2023



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Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in death or serious injury**.

Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in death or serious injury**.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury**.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Safety Precautions

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Read all instructions in the installation manual before installing or working on this product.

Failure to follow these instructions will result in death or serious injury.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not install the product until all construction work has been completed and the installation room has been cleaned.

Failure to follow these instructions will result in death or serious injury.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The product must be installed according to the specifications and requirements as defined by Schneider Electric. It concerns in particular the external and internal protections (upstream breakers, battery breakers, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.

Failure to follow these instructions will result in death or serious injury.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The UPS system must be installed according to local and national regulations. Install the UPS according to:

- IEC 60364 (including 60364-4-41- protection against electric shock, 60364-4-42 - protection against thermal effect, and 60364-4-43 - protection against overcurrent), **or**
- NEC NFPA 70, **or**
- Canadian Electrical Code (C22.1, Part 1)

depending on which one of the standards apply in your local area.

Failure to follow these instructions will result in death or serious injury.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Install the product in a temperature controlled indoor environment free of conductive contaminants and humidity.
- Install the product on a non-flammable, level and solid surface (e.g. concrete) that can support the weight of the system.

Failure to follow these instructions will result in death or serious injury.

⚡⚡ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The product is not designed for and must therefore not be installed in the following unusual operating environments:

- Damaging fumes
- Explosive mixtures of dust or gases, corrosive gases, or conductive or radiant heat from other sources
- Moisture, abrasive dust, steam or in an excessively damp environment
- Fungus, insects, vermin
- Salt-laden air or contaminated cooling refrigerant
- Pollution degree higher than 2 according to IEC 60664-1
- Exposure to abnormal vibrations, shocks, and tilting
- Exposure to direct sunlight, heat sources, or strong electromagnetic fields

Failure to follow these instructions will result in death or serious injury.

⚡⚡ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not drill or cut holes for cables or conduits with the gland plates installed and do not drill or cut holes in close proximity to the UPS.

Failure to follow these instructions will result in death or serious injury.

⚡⚡ WARNING

HAZARD OF ARC FLASH

Do not make mechanical changes to the product (including removal of cabinet parts or drilling/cutting of holes) that are not described in the installation manual.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

RISK OF OVERHEATING

Respect the space requirements around the product and do not cover the ventilation openings when the product is in operation.

Failure to follow these instructions can result in equipment damage.

Additional Safety Precautions After Installation

⚡⚡ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not install the UPS system until all construction work has been completed and the installation room has been cleaned. If additional construction work is needed in the installation room after this product has been installed, turn off the product and cover the product with the protective packaging bag the product was delivered in.

Failure to follow these instructions will result in death or serious injury.

Electrical Safety

This manual contains important safety instructions that should be followed during the installation and maintenance of the UPS system.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- Disconnection devices for AC and DC must be provided by others, be readily accessible, and the function of the disconnect device marked for its function.
- Turn off all power supplying the UPS system before working on or inside the equipment.
- Before working on the UPS system, check for hazardous voltage between all terminals including the protective earth.
- The UPS contains an internal energy source. Hazardous voltage can be present even when disconnected from the mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that mains and batteries are disconnected. Wait five minutes before opening the UPS to allow the capacitors to discharge.
- The UPS must be properly earthed/grounded and due to a high leakage current, the earthing/grounding conductor must be connected first.

Failure to follow these instructions will result in death or serious injury.

The label below must be added if:

1. The UPS input is connected through external isolators that, when opened, isolate the neutral, OR
2. The UPS input is connected via an IT power system.

The label must be placed adjacent to all upstream power disconnection devices that isolate the neutral.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Risk of voltage backfeed. Before working on this circuit: Isolate the UPS and check for hazardous voltage between all terminals including the protective earth.

Failure to follow these instructions will result in death or serious injury.

Specifications

NOTICE

HAZARD OF EQUIPMENT DAMAGE

Refer to the UPS installation manual for detailed specifications for the UPS system.

Failure to follow these instructions can result in equipment damage.

Bottom Entry Cabinet Weight and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
SP3BBEC	62	1991	300	850

Torque Specifications

Bolt size	Torque
M4	1.7 Nm
M6	5 Nm
M8	17.5 Nm
M10	30 Nm
M12	50 Nm

Environment

	Operating	Storage
Temperature	0 °C to 40 °C	-25 °C to 55 °C
Relative humidity	0-95% non-condensing	10-80% non-condensing
Protection class	IP20	
Color	Black	

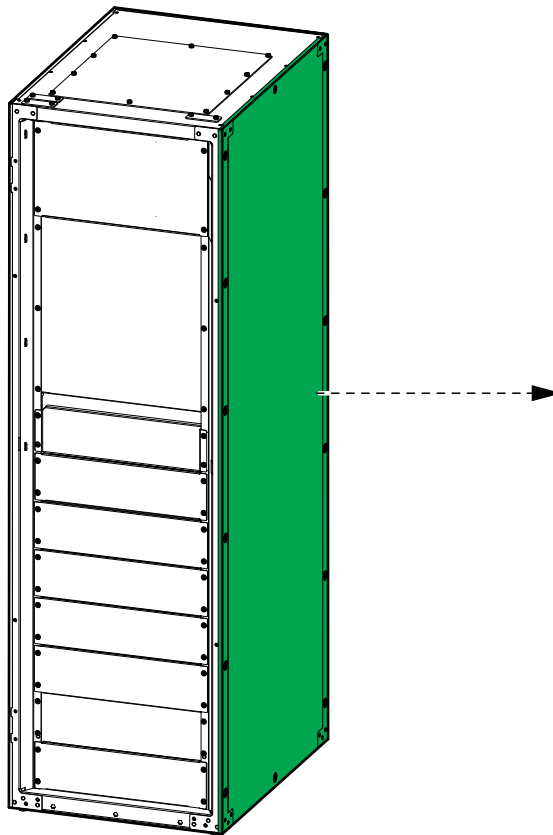
Installation Procedure for Galaxy PX or Easy UPS 3-Phase Modular with Bottom Entry Cabinet

NOTE: All power cables and signal cables can be routed through the bottom entry cabinet and connected in the UPS.

1. Follow one of the procedures:
 - Install the Bottom Entry Cabinet on the Right Side of the UPS, page 11, or
 - Install the Bottom Entry Cabinet on the Left Side of the UPS, page 21.
2. Follow the UPS installation manual to connect the power cables and the signal cables and to complete the rest of the UPS installation.

Install the Bottom Entry Cabinet on the Right Side of the UPS

1. Remove the right side panel from the UPS. Save for installation on the bottom entry cabinet.



2. Push the UPS and the bottom entry cabinet into final position next to each other.
3. Lower the front and rear leveling feet on the UPS with a wrench until they connect with the floor. The casters must not have contact with the floor. Use a bubble-leveler to check that the UPS is level.

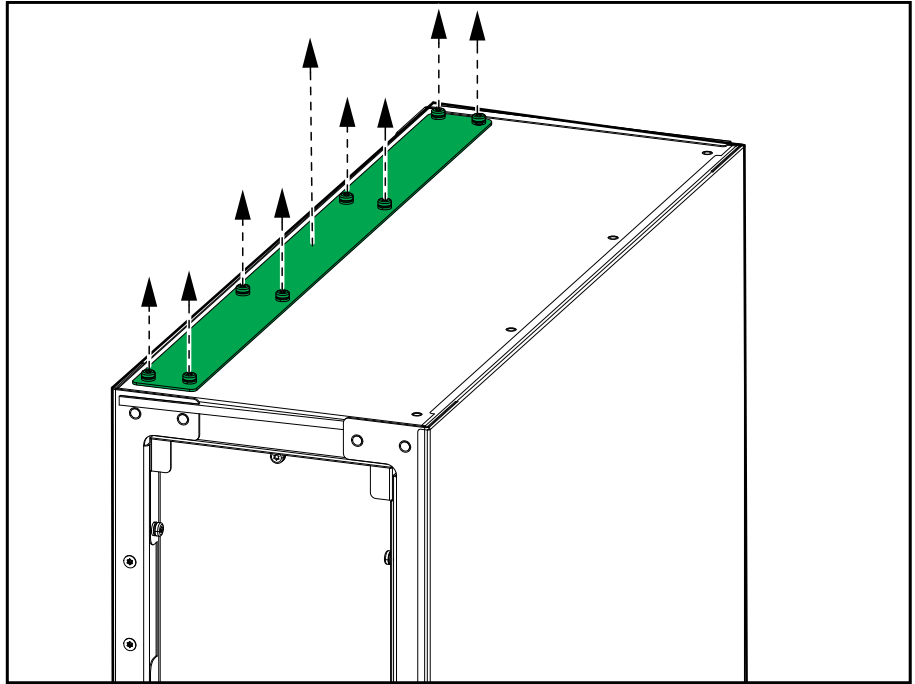
NOTICE

RISK OF EQUIPMENT DAMAGE

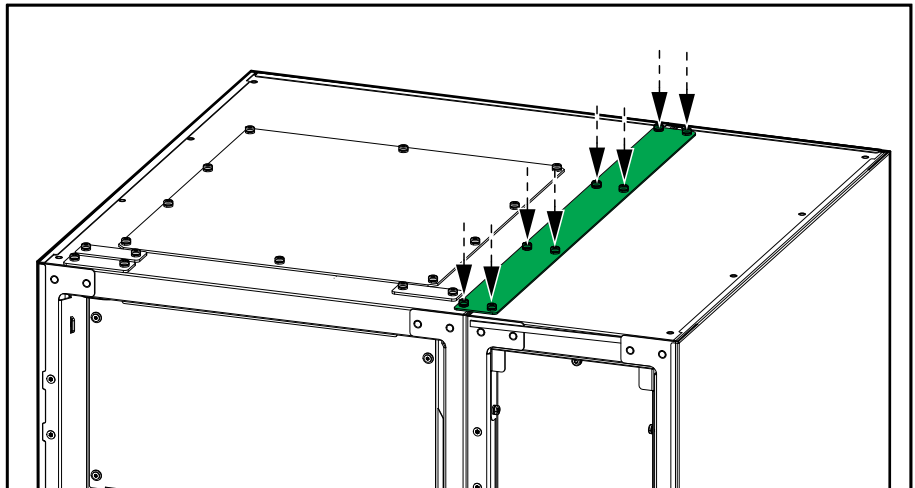
Do not move the cabinet after the leveling feet have been lowered.

Failure to follow these instructions can result in equipment damage.

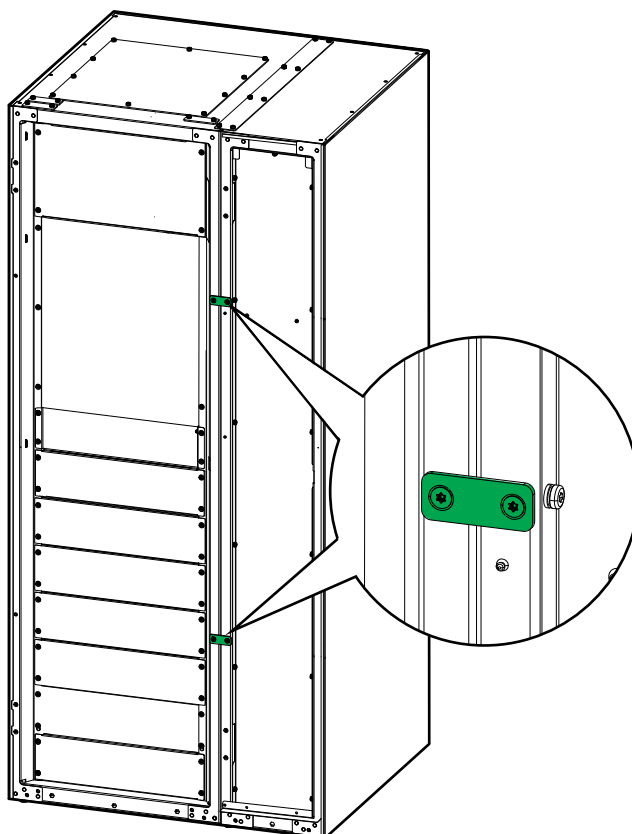
4. Remove the top interconnection bracket from the top of the bottom entry cabinet.



5. Install the top interconnection bracket between the UPS and the bottom entry cabinet.

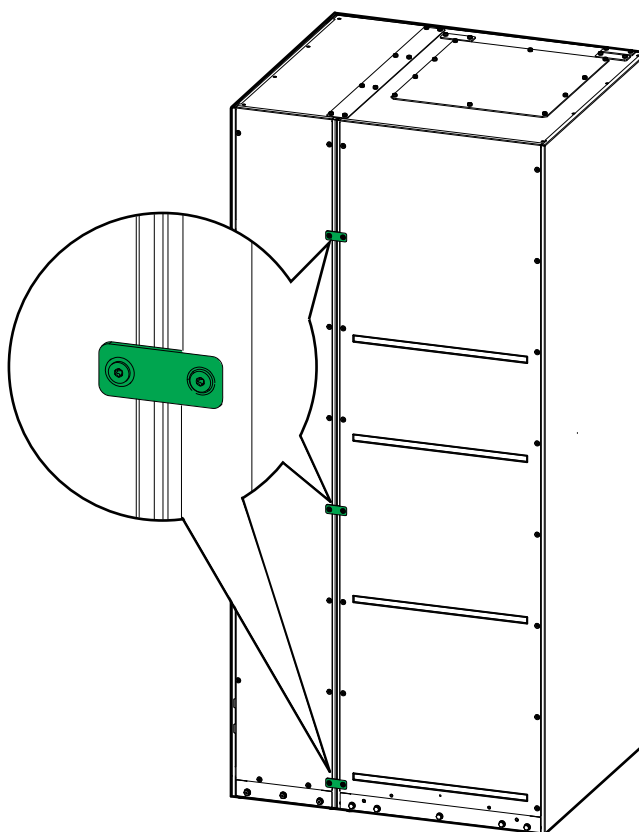


6. Interconnect the UPS and the bottom entry cabinet with the provided front interconnection brackets.

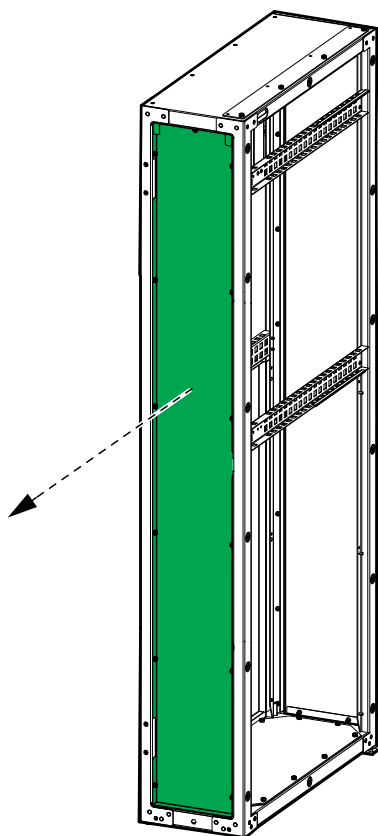


7. Interconnect the UPS and the bottom entry cabinet with the provided rear interconnection brackets.

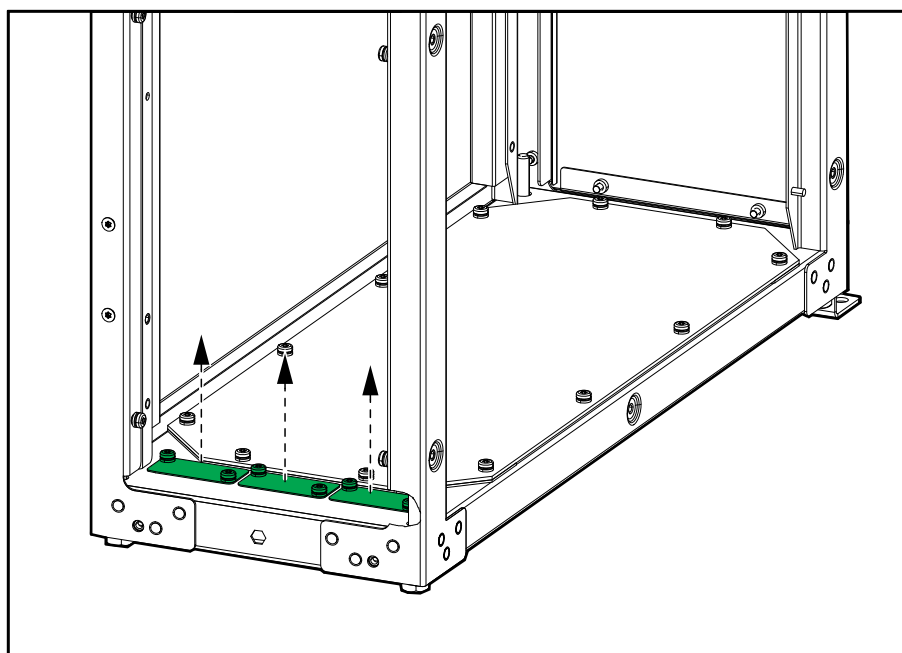
Rear View



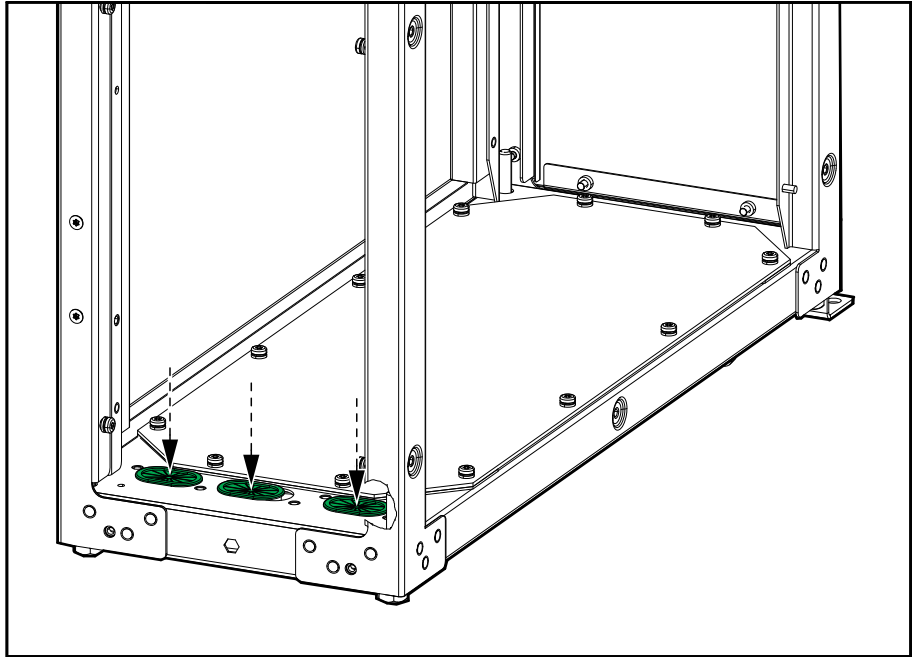
8. Remove the front plate from the bottom entry cabinet.



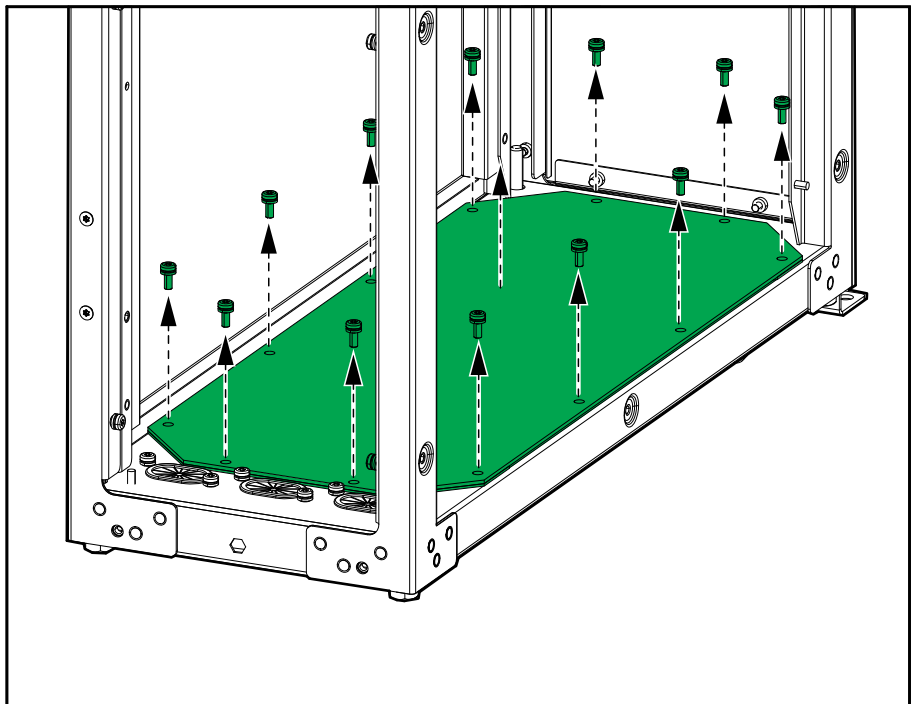
9. Remove the plates for the signal cables.



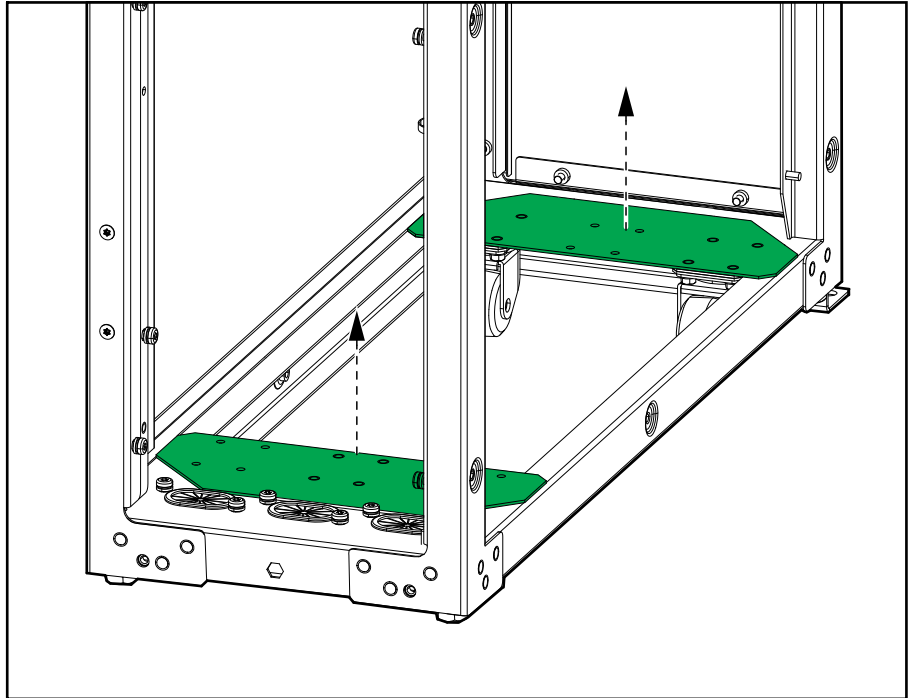
10. Mount the provided cable brush plugs.



11. Remove the bottom gland plate.



12. Remove the supporting plates with casters. Discard the supporting plates with casters.



13. Drill/punch holes for cables or conduits/grommets in the gland plate. Install conduits/grommets (not provided), if applicable.

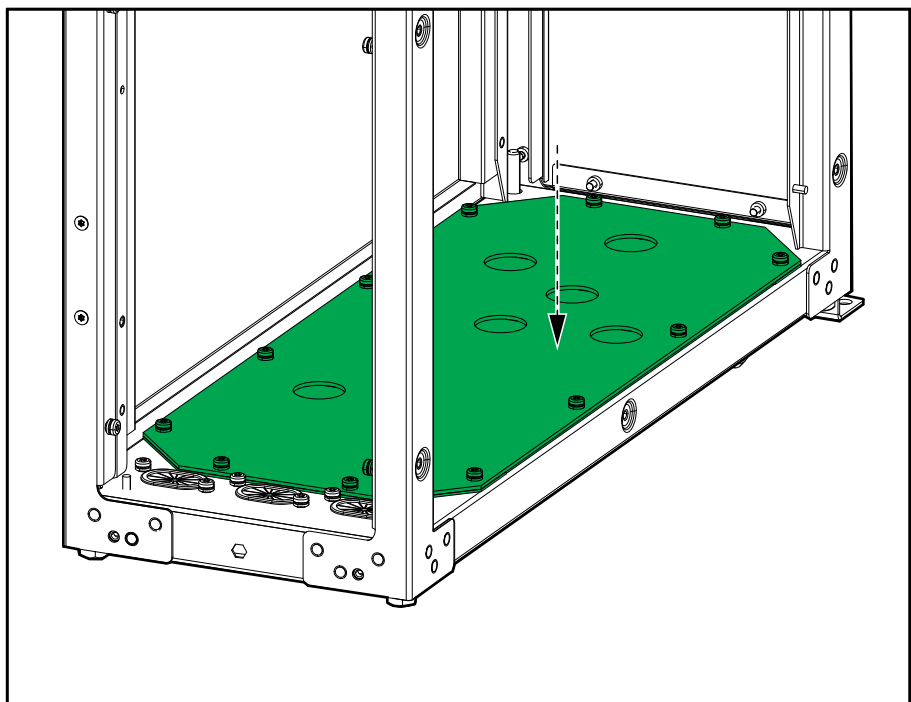
DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

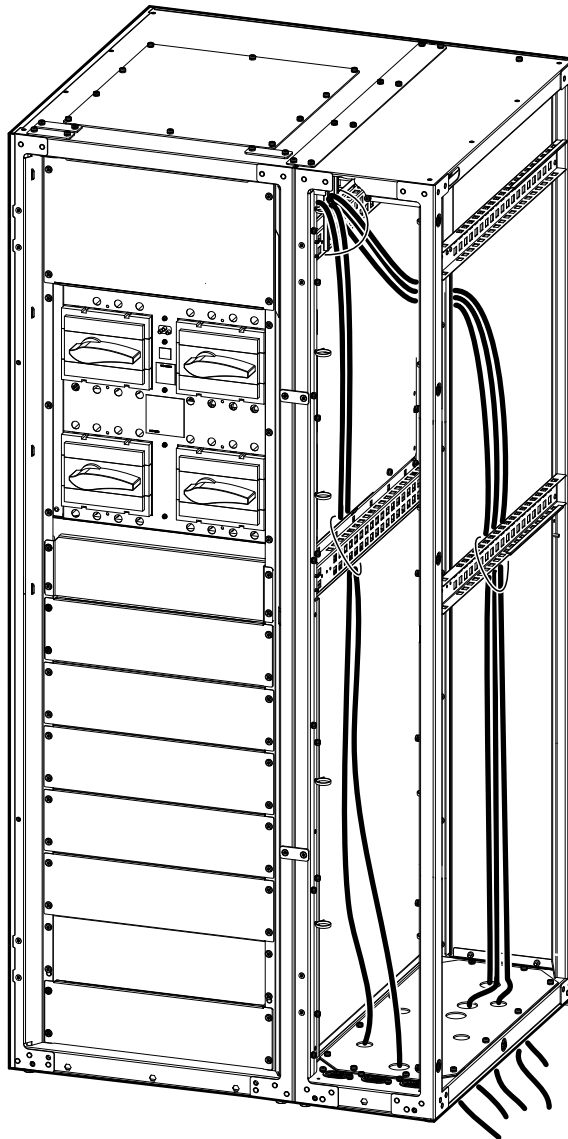
Do not drill or punch holes with the gland plates installed and do not drill or punch holes in close proximity to the cabinet.

Failure to follow these instructions will result in death or serious injury.

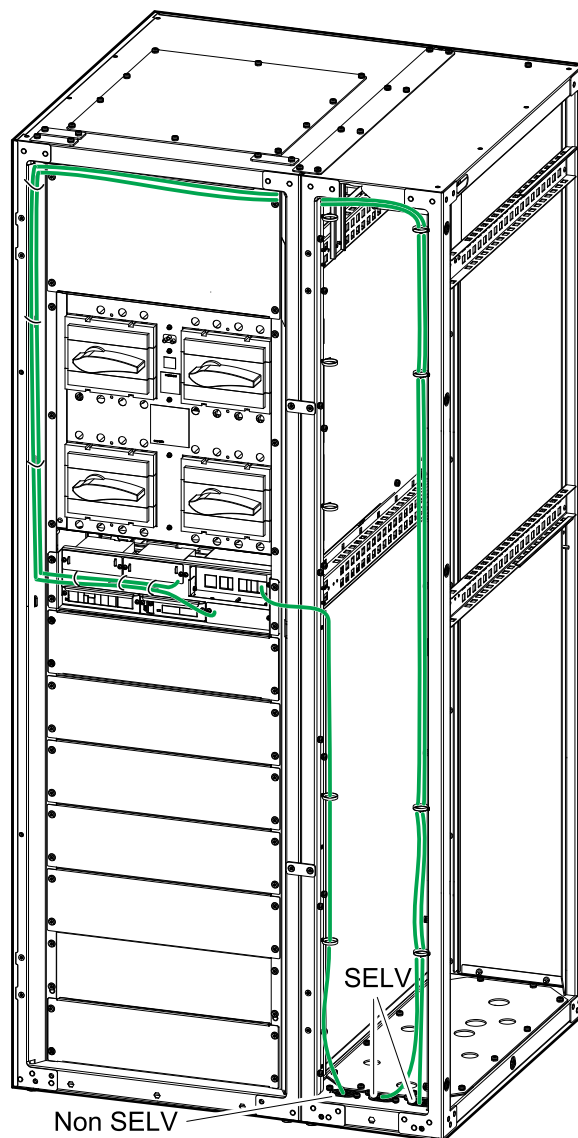
14. Reinstall the bottom gland plate.



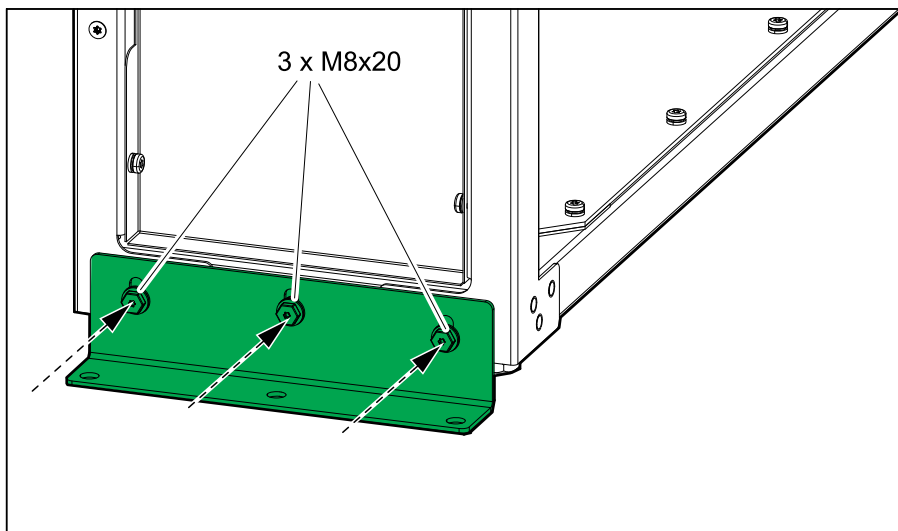
15. Remove the inner front plates and the rear panel from the UPS.
16. Route the power cables up through the bottom entry cabinet and into the UPS as shown. Fasten the power cables to the middle and top cable reliefs.



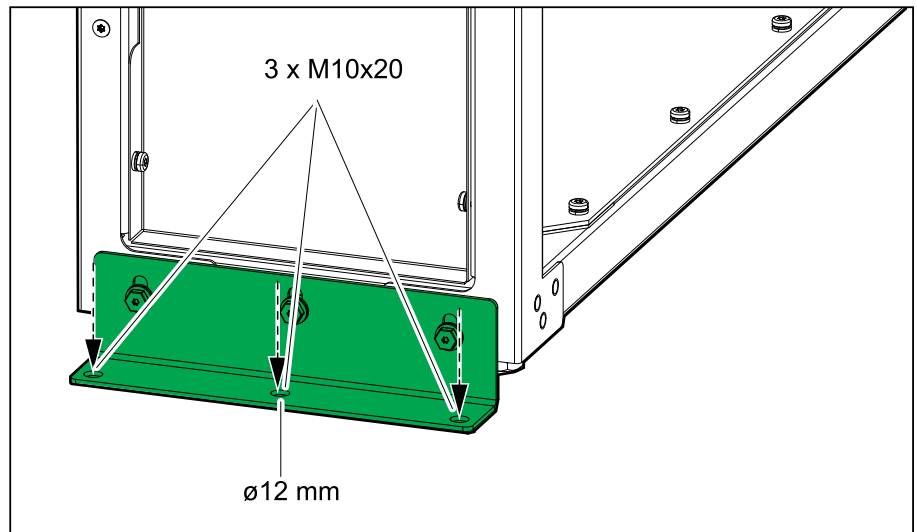
17. Route the signal cables up through the bottom entry cabinet and into the UPS. Route as shown to separate the Class 2/SELV cables from the non-Class 2/non-SELV cables.



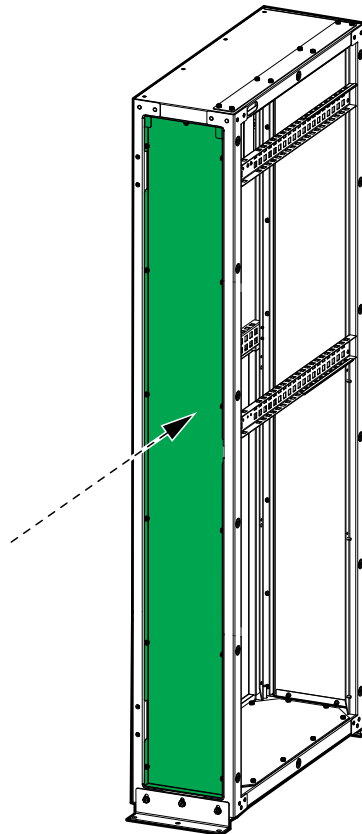
18. Reinstall the front and rear transportation brackets on the bottom entry cabinet.



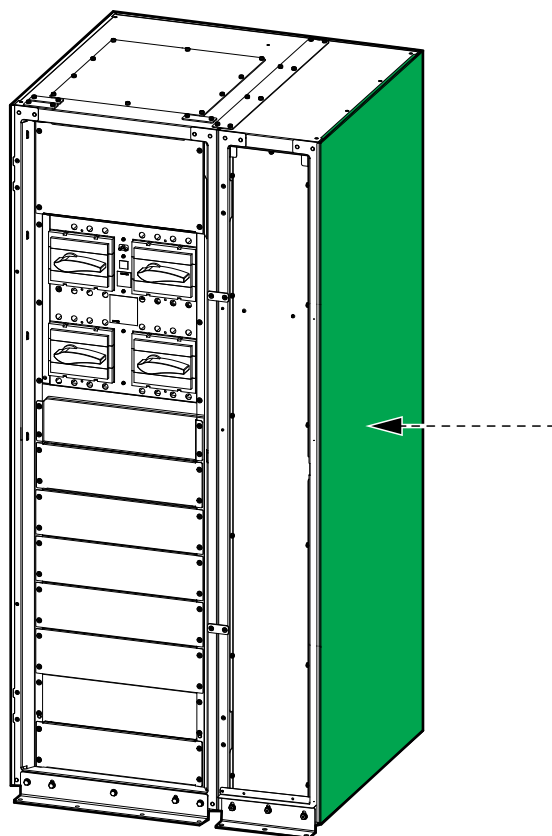
19. Mount the front and rear transportation brackets to the floor. Use appropriate hardware for the floor type - the hole diameter in the bracket is $\varnothing 12$ mm. The requirement is M10 strength grade 8.8 hardware.



20. Reinstall the front plate on the bottom entry cabinet.



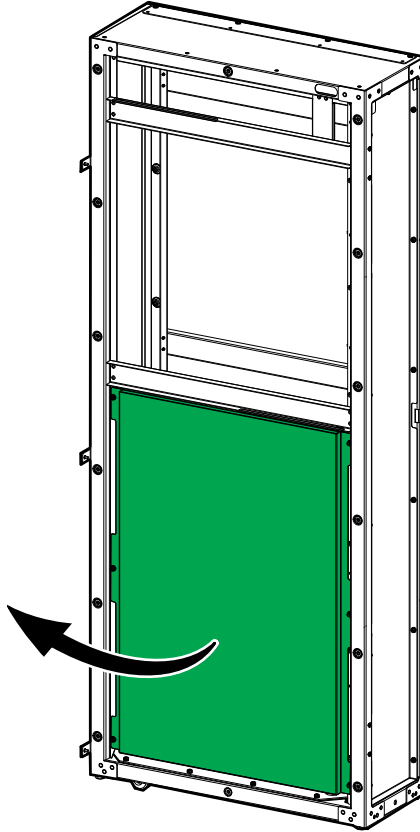
21. Install the right side panel on the bottom entry cabinet. The right side panel was removed from the UPS earlier.



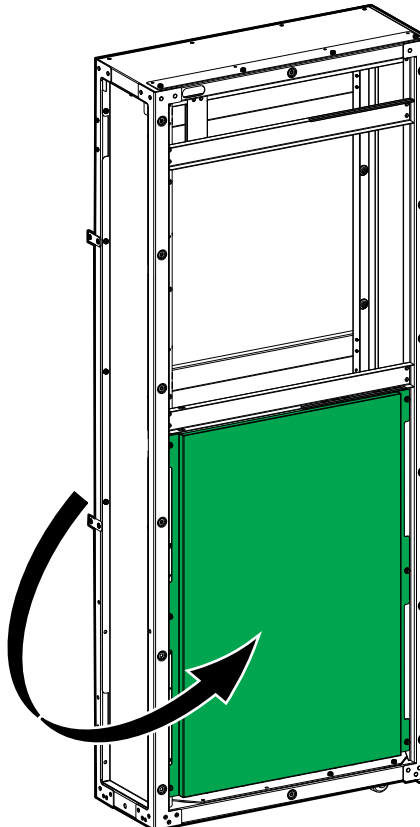
22. Follow the UPS installation manual to connect the signal cables and the power cables.

Install the Bottom Entry Cabinet on the Left Side of the UPS

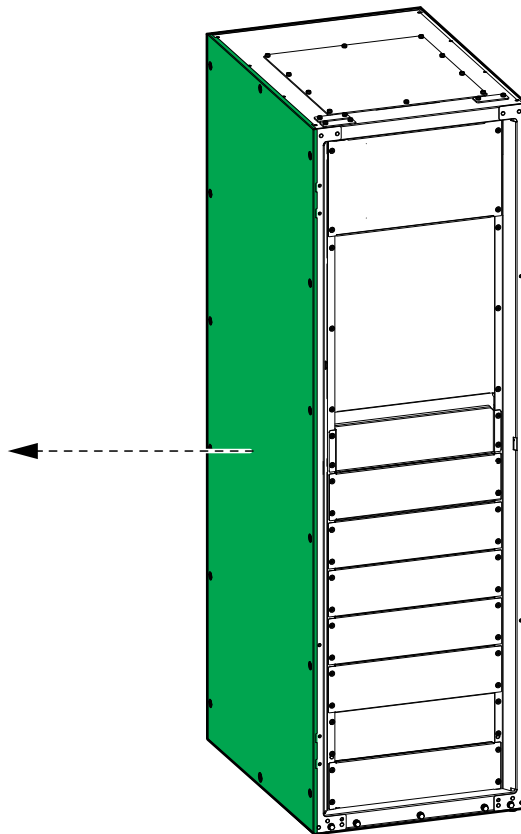
1. Remove the lower side plate from the left side of the bottom entry cabinet.



2. Install the lower side plate on the right side of the bottom entry cabinet.



3. Remove the left side panel from the UPS. Save for installation on the bottom entry cabinet.



4. Push the UPS and the bottom entry cabinet into final position next to each other.
5. Lower the front and rear leveling feet on the UPS with a wrench until they connect with the floor. The casters must not have contact with the floor. Use a bubble-leveler to check that the UPS is level.

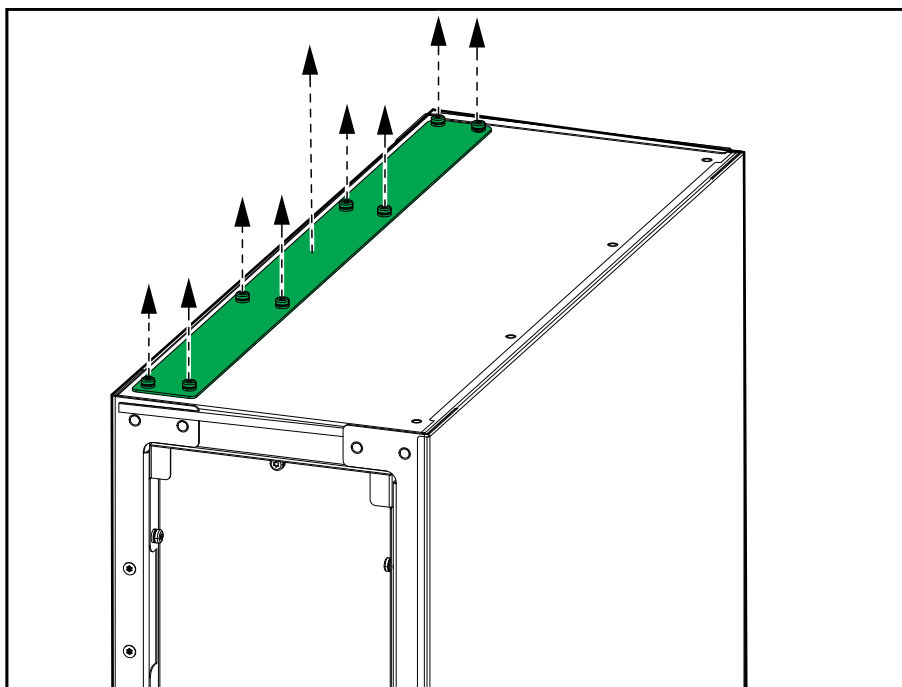
NOTICE

RISK OF EQUIPMENT DAMAGE

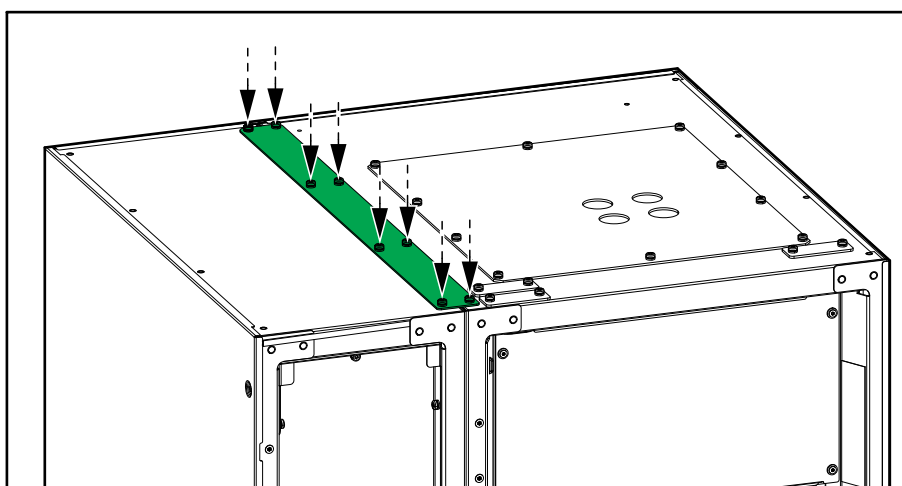
Do not move the cabinet after the leveling feet have been lowered.

Failure to follow these instructions can result in equipment damage.

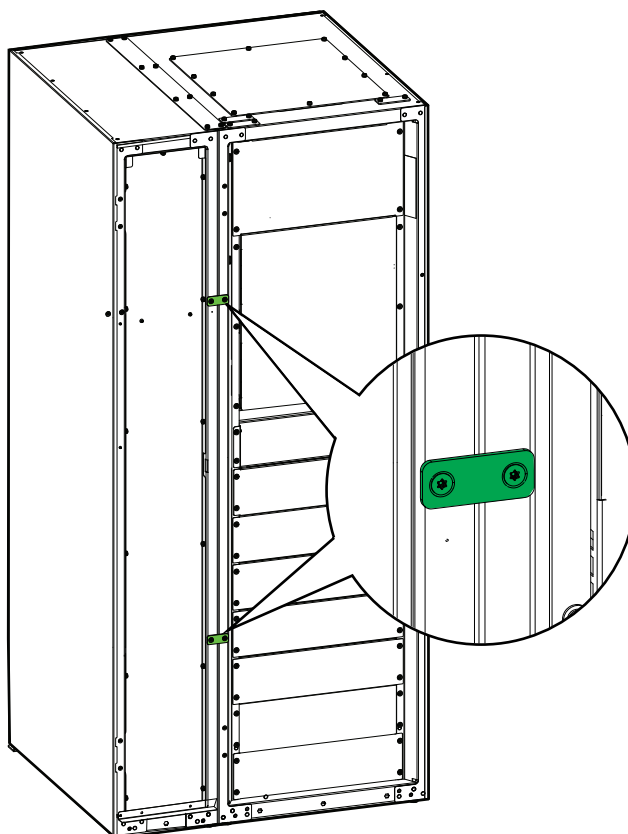
6. Remove the top interconnection bracket from the top of the bottom entry cabinet.



7. Install the top interconnection bracket between the UPS and the bottom entry cabinet.

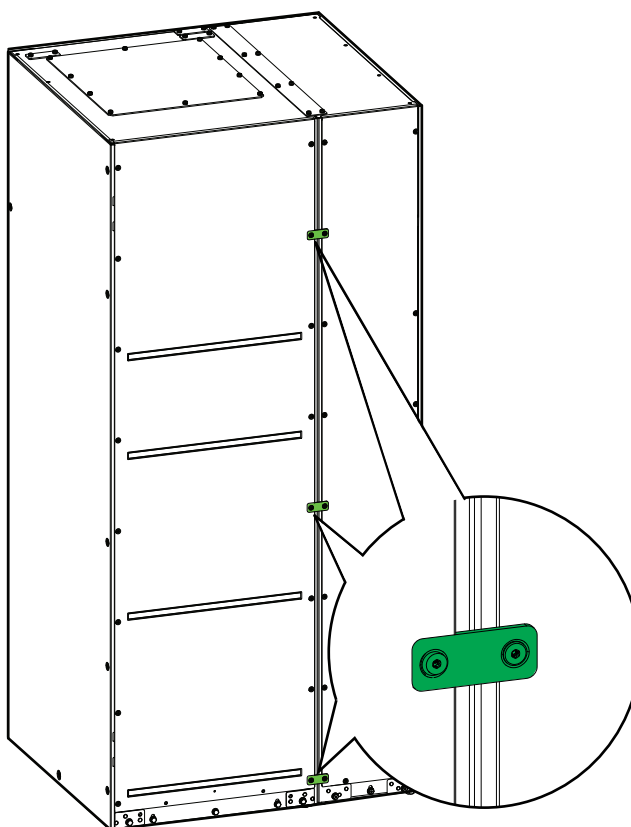


8. Interconnect the UPS and the bottom entry cabinet with the provided front interconnection brackets.

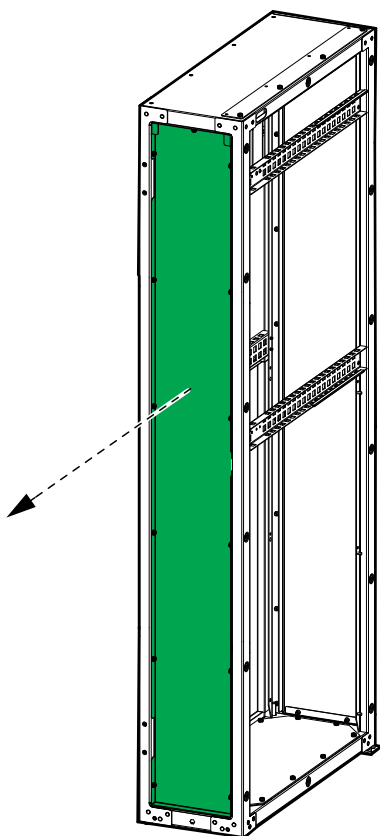


9. Interconnect the UPS and the bottom entry cabinet with the provided rear interconnection brackets.

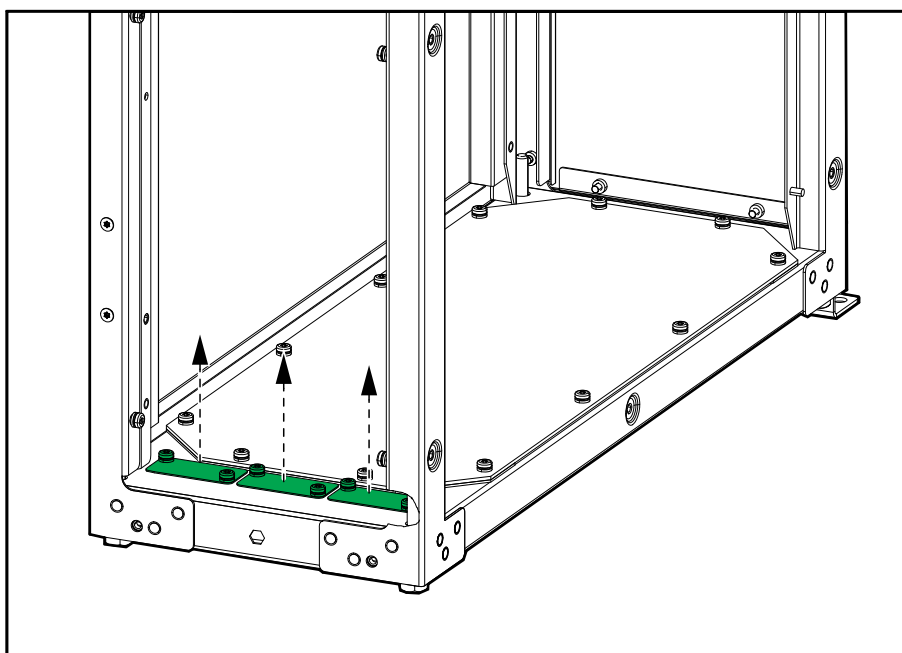
Rear View



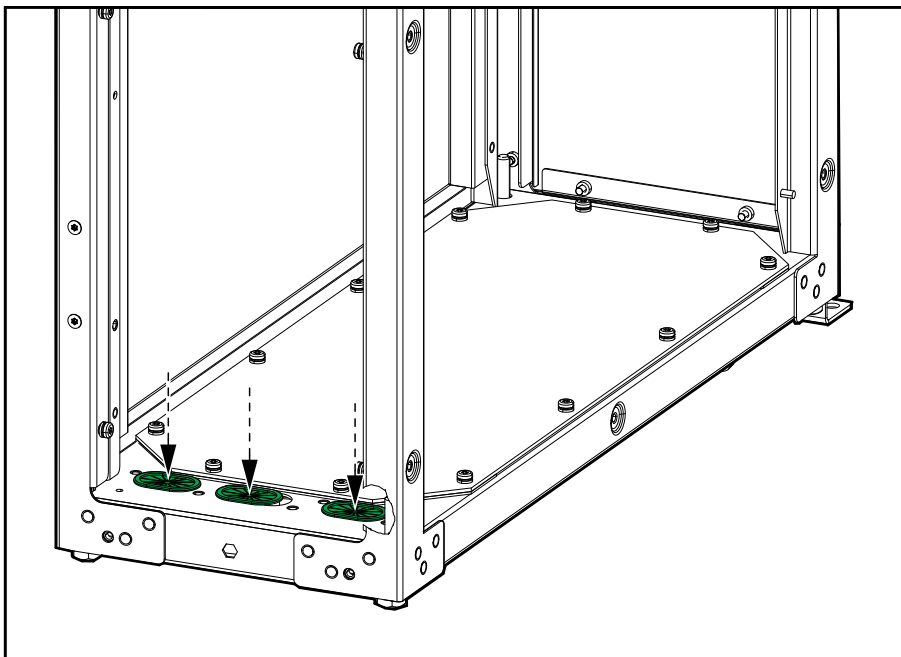
10. Remove the front plate from the bottom entry cabinet.



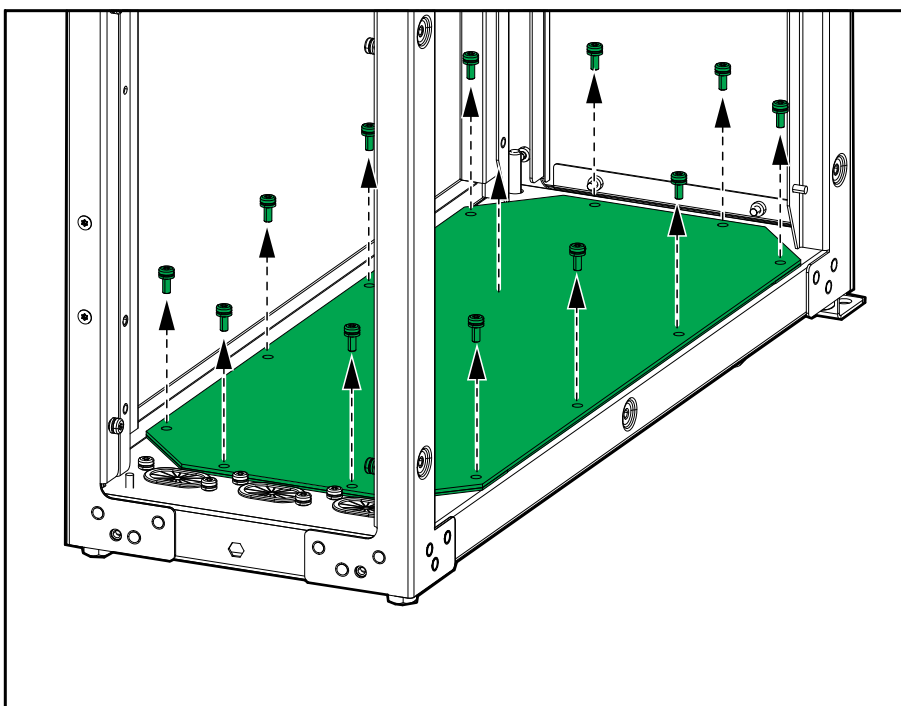
11. Remove the plates for the signal cables.



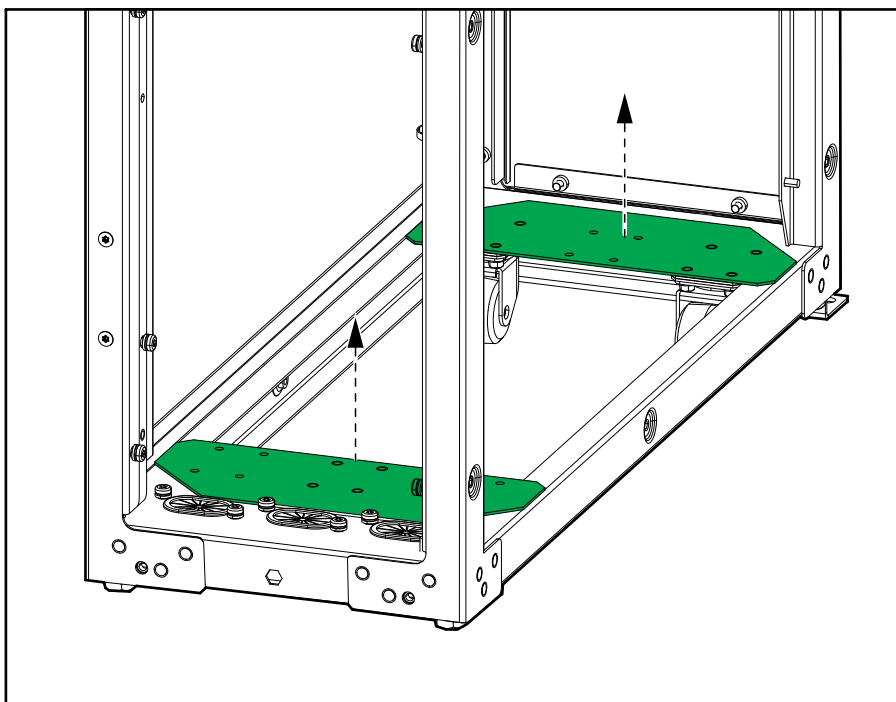
12. Mount the provided cable brush plugs.



13. Remove the bottom gland plate and the supporting plates.



14. Remove the supporting plates with casters. Discard the supporting plates with casters.



15. Drill/punch holes for cables or conduits/grommets in the gland plate. Install conduits/grommets (not provided), if applicable.

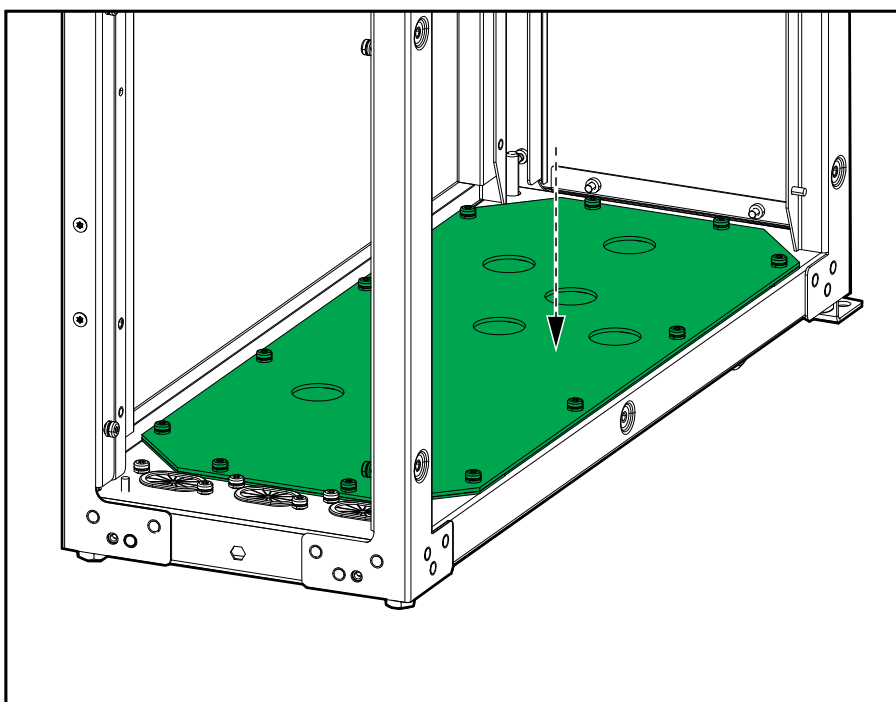
DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not drill or punch holes with the gland plates installed and do not drill or punch holes in close proximity to the cabinet.

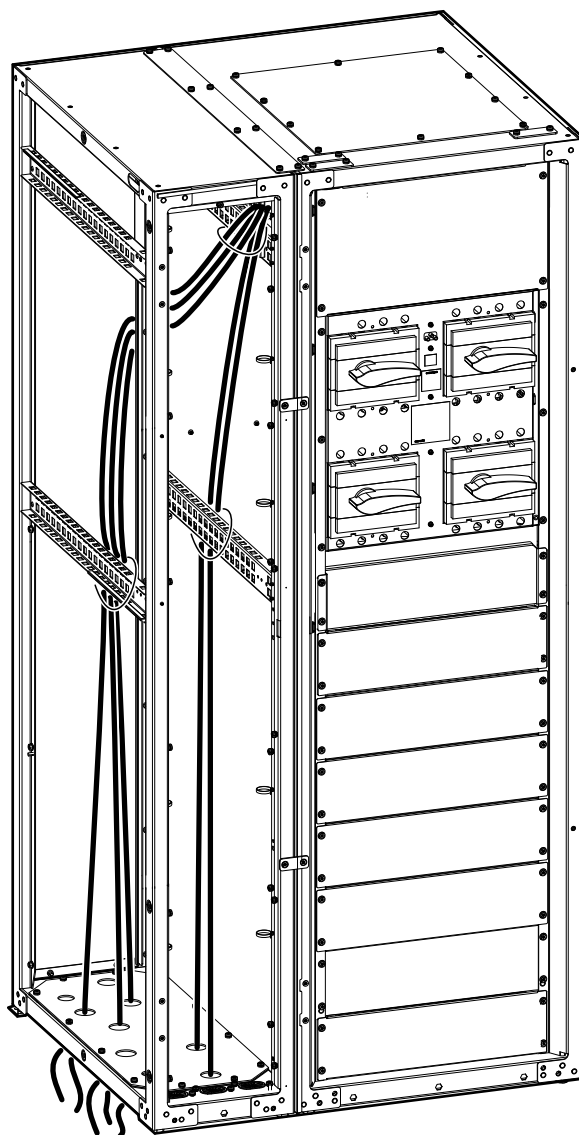
Failure to follow these instructions will result in death or serious injury.

16. Reinstall the bottom gland plate.

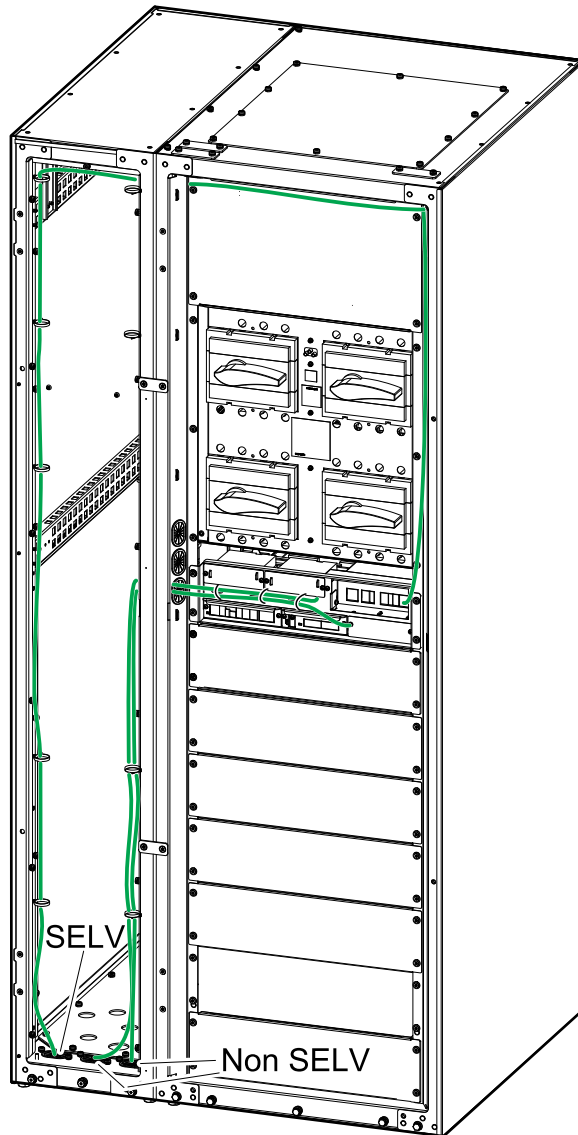


17. Remove the inner front plates and the rear panel from the UPS.

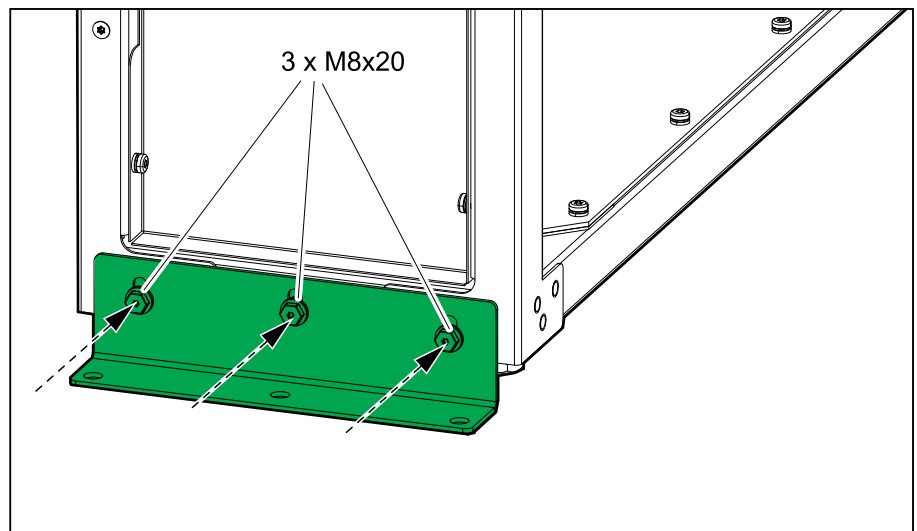
18. Route the power cables up through the bottom entry cabinet and into the UPS as shown. Fasten the power cables to the middle and top cable reliefs.



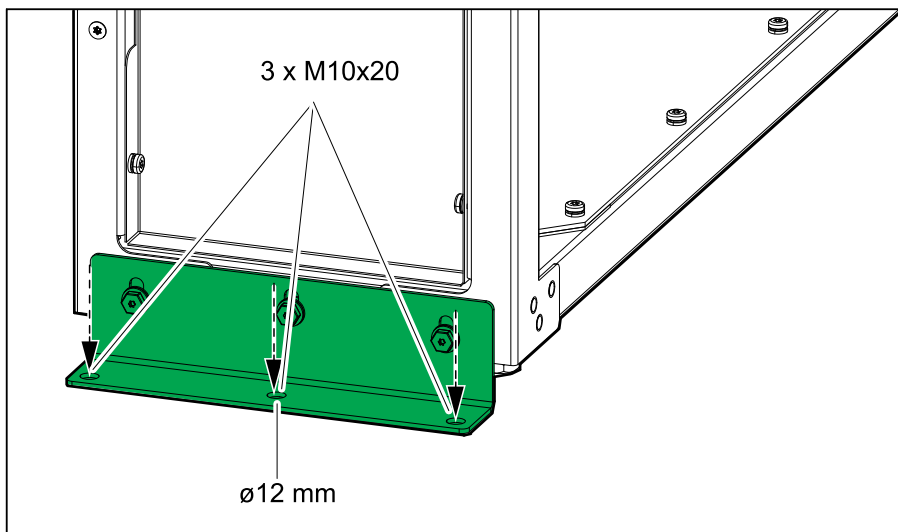
19. Route the signal cables up through the bottom entry cabinet and into the UPS. Route as shown to separate the Class 2/SELV cables from the non-Class 2/non-SELV cables.



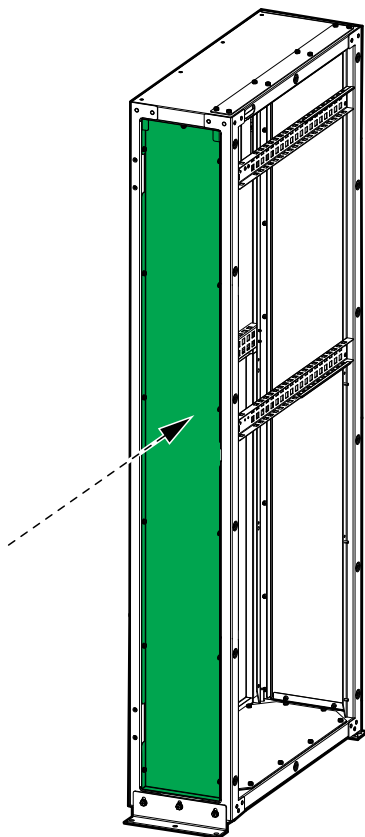
20. Reinstall the front and rear transportation brackets on the bottom entry cabinet.



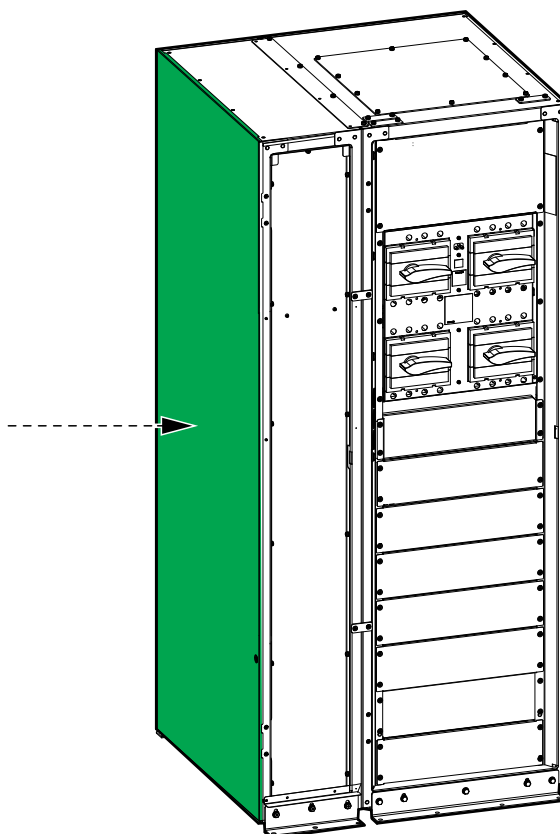
21. Mount the front and rear transportation brackets to the floor. Use appropriate hardware for the floor type - the hole diameter in the bracket is $\varnothing 12$ mm. The requirement is M10 strength grade 8.8 hardware.



22. Reinstall the front plate on the bottom entry cabinet.



23. Install the left side panel on the bottom entry cabinet. The left side panel was removed from the UPS earlier.



24. Follow the UPS installation manual to connect the signal cables and the power cables.

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