Galaxy VXL

Backfeed Protection Cabinet for 380/400/415 V

Installation

GVXLOPT001

Latest updates are available on the Schneider Electric website
10/2025

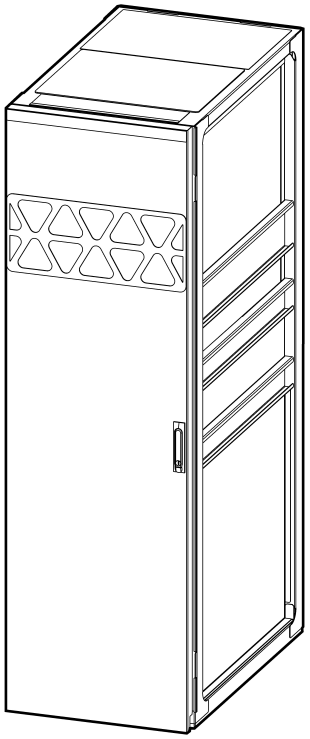

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Table of Contents

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.

Per IEC 62040-1: "Uninterruptible power systems (UPS) -- Part 1: Safety Requirements," this equipment, including battery access, must be inspected, installed and maintained by a skilled person.

The skilled person is a person with relevant education and experience to enable him or her to perceive risks and to avoid hazards which the equipment can create (reference IEC 62040-1, section 3.102).

Safety Precautions

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All safety instructions in this document must be read, understood and followed.

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

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Read all instructions in the Installation Manual before installing or working on this UPS system.

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 UPS system 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 disconnect devices, battery disconnect devices, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- After the UPS system has been electrically wired, do not start up the system. Start-up must only be performed by Schneider Electric.

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 UPS system in a temperature controlled indoor environment free of conductive contaminants and humidity.
- Install the UPS system 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 UPS 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.

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR 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 will result in death or serious injury.

NOTICE

RISK OF OVERHEATING

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

Failure to follow these instructions can result in equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

Do not connect the UPS output to regenerative load systems including photovoltaic systems and speed drives.

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 touch current/leakage current, the earthing/grounding conductor must be connected first.

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

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Always perform correct Lockout/Tagout before working on the UPS system. A UPS with autostart enabled will automatically restart when the mains supply returns.

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

Battery Safety

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Battery disconnect devices must be installed according to the specifications and requirements as defined by Schneider Electric.
- Servicing of batteries must only be performed or supervised by qualified personnel knowledgeable of batteries and the required precautions. Keep unqualified personnel away from batteries.
- Disconnect charging source prior to connecting or disconnecting battery terminals.
- Do not dispose of batteries in a fire as they can explode.
- Do not open, alter, or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

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

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Batteries can present a risk of electric shock and high short-circuit current. The following precautions must be observed when working on batteries

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear protective glasses, gloves and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect the charging source prior to connecting or disconnecting battery terminals.
- Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electric shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance (applicable to equipment and remote battery supplies not having a grounded supply circuit).

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

NOTE: Always follow the documentation from the battery manufacturer concerning battery storage, battery installation, and battery maintenance.

Specifications

Maximum Short Circuit Rating

The backfeed protection cabinet (GVXLOPT001) is rated for 65 kA Icc.

Disconnect Device BF2 Specifications

Type	RLF36000S25 automatic switch, 3 pole		
Rating (A)	2500		
Withstand rating	240 VAC	480 VAC	600 VAC
	125 kA	100 kA	50 kA
Trip point (±10%)	39 kA		

Recommended Upstream Protection

Refer to the UPS installation manual for recommended upstream protection.

Recommended Cable Sizes

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- All wiring must comply with all applicable national and/or electrical codes.
- The maximum allowable cable size is 300 mm^2.
- Shrink sleeves must be fitted over the cable lug crimped zone and must overlap with the cable insulation on all power cables.

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

Refer to the UPS installation manual for recommended cable sizes.

Torque Specifications

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

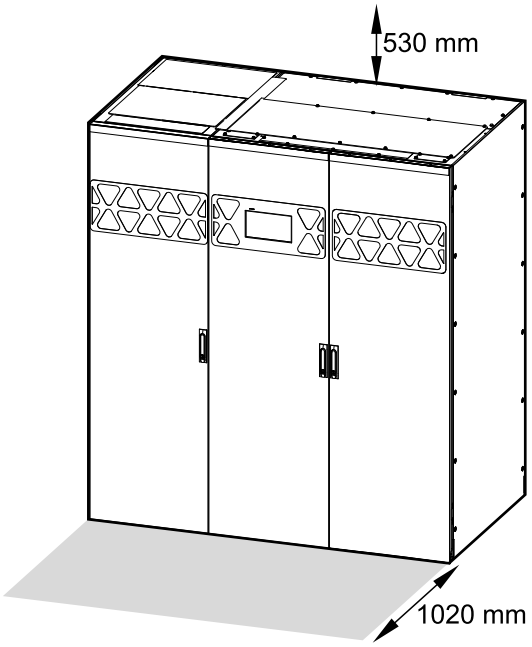
Backfeed Protection Cabinet Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
GVXLOPT001	271	1970	600	1000

Clearance

NOTE: Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.

Front View of the Backfeed Protection Cabinet and the UPS



Environment

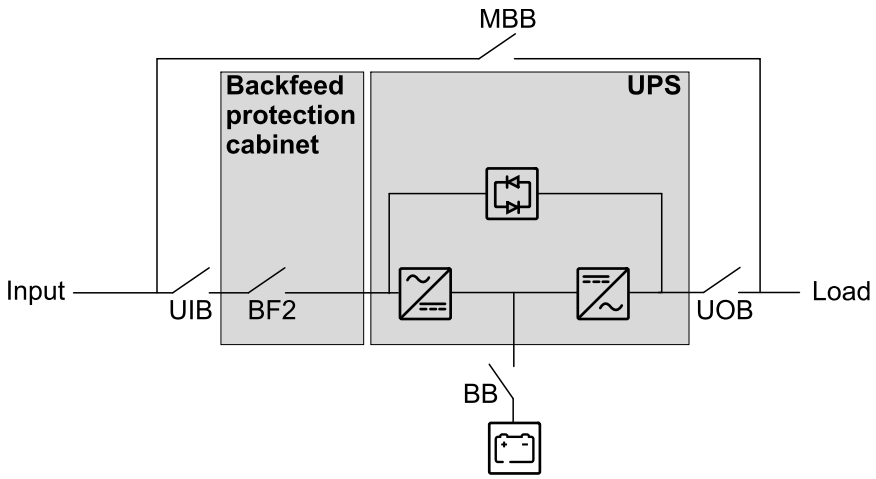
	Operating	Storage
Temperature	0 °C to 50 °C	-25 °C to 55 °C
Relative humidity	5-90% non-condensing	0-95% non-condensing
Elevation	Designed for operation in 0-3000 m elevation.	
Protection class	IP20	
Color	RAL 9003, gloss level 85%	

Single System Overview

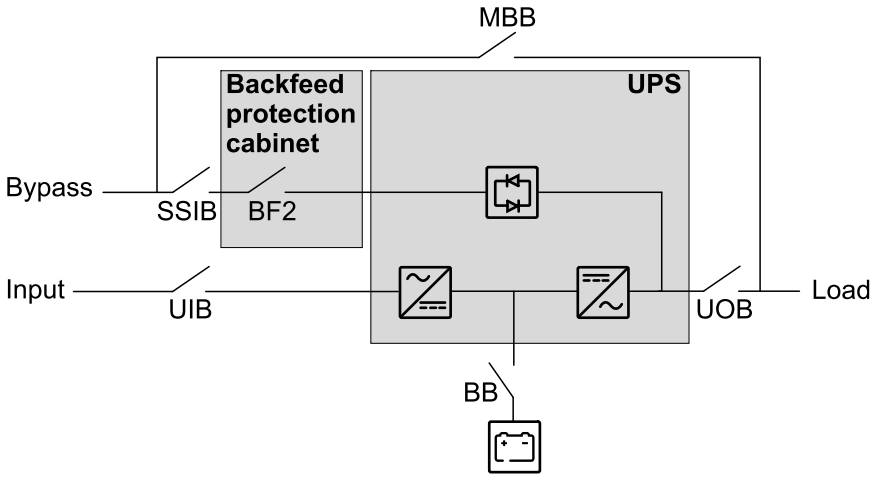
UIB	Unit input disconnect device
SSIB	Static switch input disconnect device
UOB	Unit output disconnect device
BB	Battery disconnect device
MBB	Maintenance bypass disconnect device

NOTE: In Schneider Electric literature, 'disconnect device' is used as a generic term covering circuit breakers or switches as their position may vary depending on configuration. Details about the individual configuration are found in the electrical diagram and/or by reading the symbol on the front of each disconnect device.

Single System – Single Mains

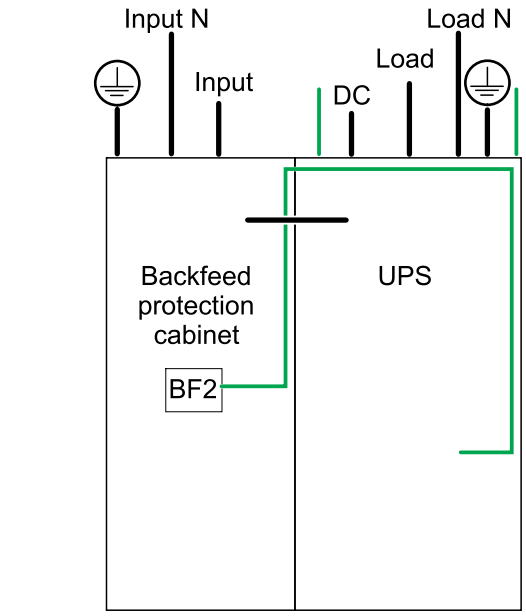


Single System – Dual Mains

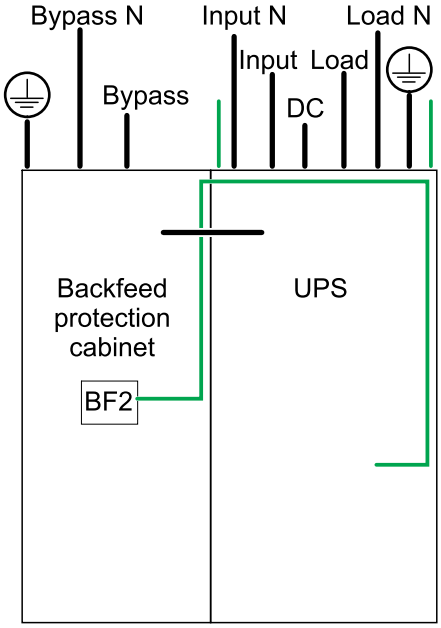


Installation Procedure

Single Mains



Dual Mains



Signal cable
Power cable

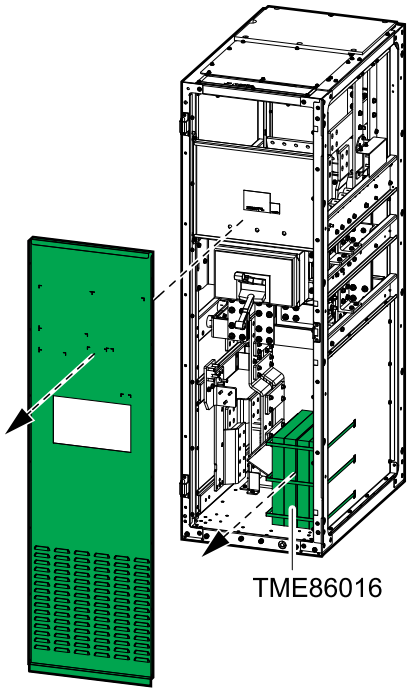
1. Prepare the Backfeed Protection Cabinet and the UPS for Installation, page 16.
2. Perform one of the following:
   - Position the Backfeed Protection Cabinet and the UPS without Seismic Anchoring, page 20, OR
   - Install the Seismic Anchoring and Position the Backfeed Protection Cabinet and the UPS, page 23.
3. Install Interconnection Busbars and Power Cables in the Backfeed Protection Cabinet and the UPS (380/400/415 V), page 31.
4. Connect the Backfeed Signal Cable Between the Backfeed Protection Cabinet and the UPS, page 37.
5. Add Translated Safety Labels to Your Product, page 39.
6. Final Installation, page 40.
7. Follow the UPS installation manual and other auxiliary product installation manuals to connect relevant signal cables and external communication cables in the UPS, and to finish the installation of the UPS system.

For moving or decommissioning the backfeed protection cabinet after installation has been completed, please see Decommission or Move the Backfeed Protection Cabinet to a New Location, page 41.

Prepare the Backfeed Protection Cabinet and the UPS for Installation

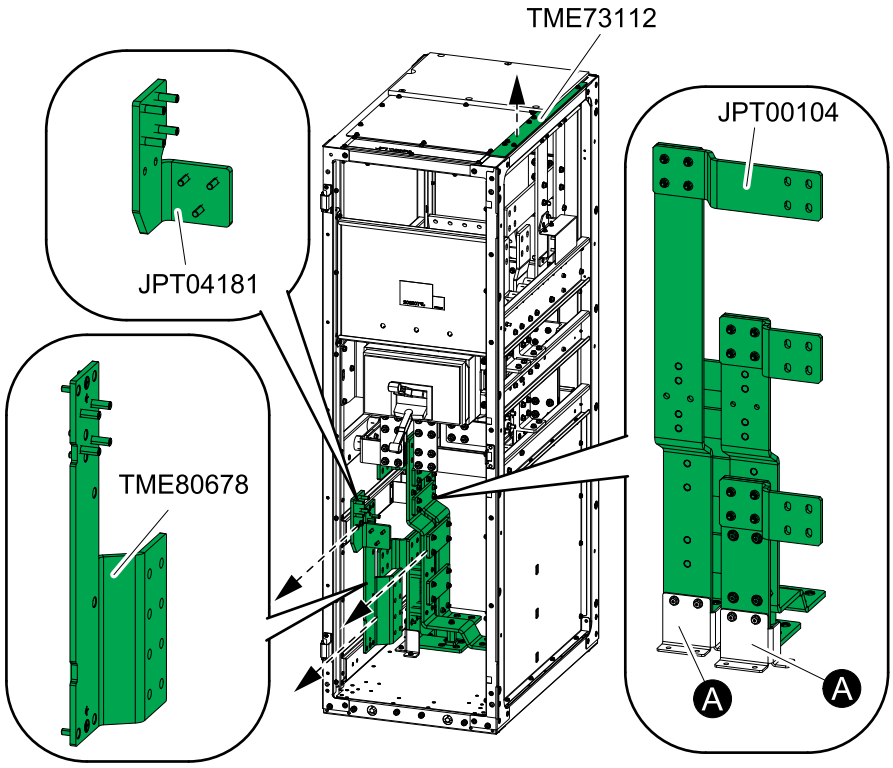
1. Place the backfeed protection cabinet and the UPS as close as possible to the final installation location.
2. Remove the front door from the UPS – see the UPS installation manual for details.
3. Remove the front door and the front cover from the backfeed protection cabinet. Store the front door and the front cover in a safe way until reinstallation. Remove the installation kit TME86016 from the backfeed protection cabinet. The installation kit contains parts and numbered installation bags with hardware that will be used later in the installation.

Front View of the Backfeed Protection Cabinet



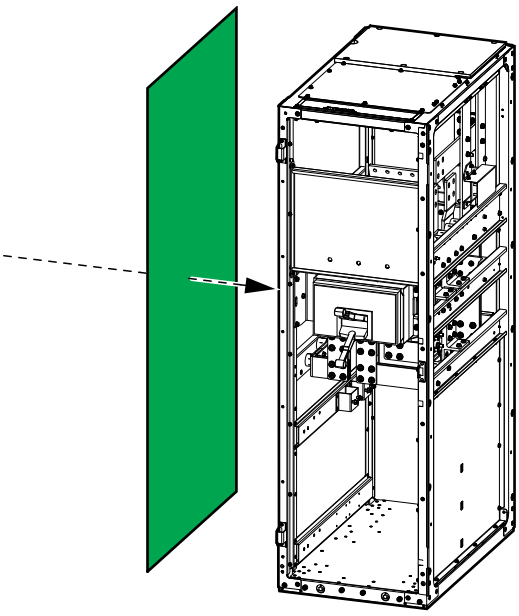
4. Remove the top bracket TME73112, the neutral extension busbar JPT04181, and the interconnection busbar assembly JPT00104 from the backfeed protection cabinet. Save all parts for later installation. Remove the busbar TME80678 and discard it (not used in 380/400/415 V installations). Discard the brackets (marked (A) in the illustration) that hold the busbar assembly JPT00104 to the bottom plate.

Front View of the Backfeed Protection Cabinet



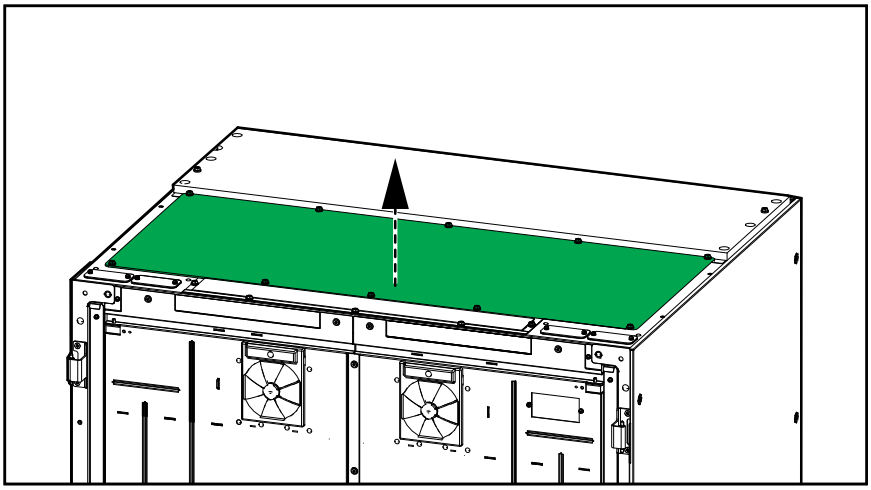
5. Remove the left side panel from the UPS. Install the left side panel on the backfeed protection cabinet.

Front View of the Backfeed Protection Cabinet

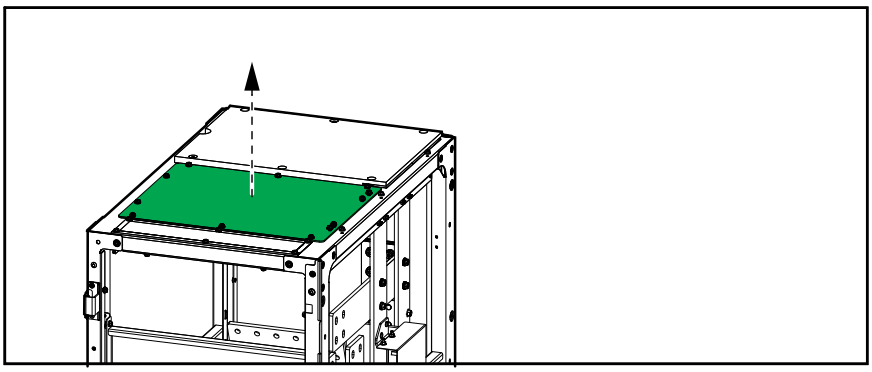


6. Prepare for power cables:
   a. Remove the top gland plates from the backfeed protection cabinet and the UPS.

Front View of the UPS



Front View of the Backfeed Protection Cabinet



   b. Drill or punch holes for power cables or grommets/conduits in the gland plates. Grommets/conduits are not provided.

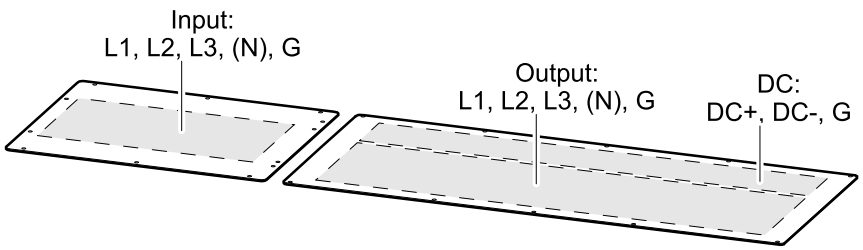
⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

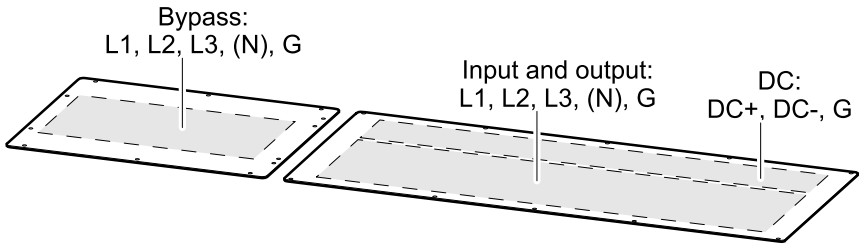
Do not drill or punch holes with the gland plates installed and do not drill or punch holes in close proximity to the cabinets.

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

Front View of the Gland Plates for Single Mains System



Front View of the Gland Plates for Dual Mains System



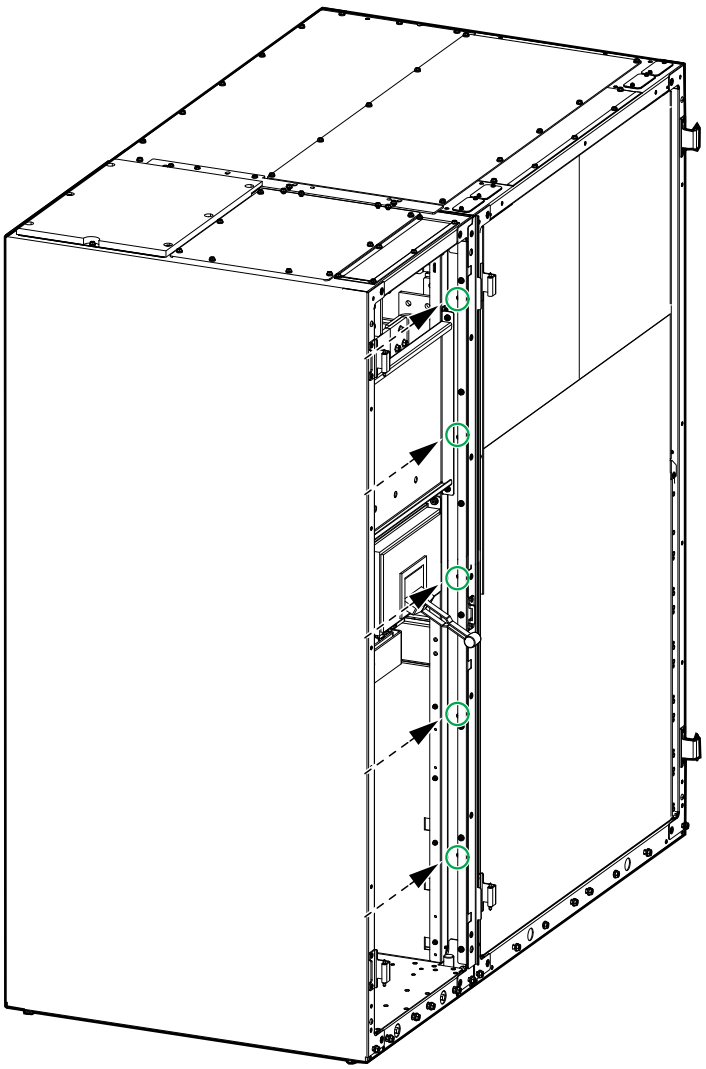
c. Reinstall the top gland plates on the backfeed protection cabinet and the UPS.

Position the Backfeed Protection Cabinet and the UPS without Seismic Anchoring

Use the top bracket TME73112 and installation bag number 2 for this procedure.

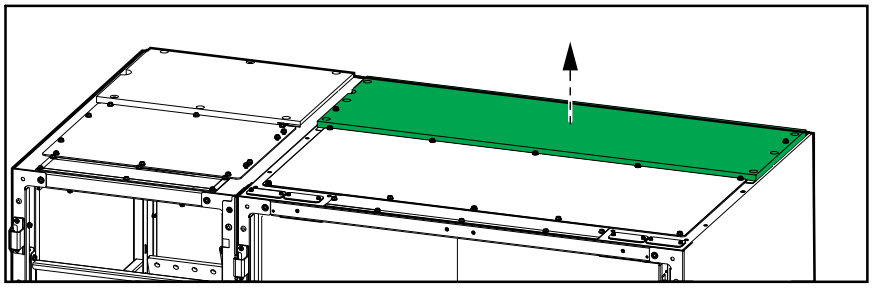
1. Place the backfeed cabinet on the left side of the UPS and align the cabinets.
2. Interconnect the backfeed protection cabinet and the UPS in the front with five screws as shown. The screws are provided in installation bag number 2.

Front Left View of the Backfeed Protection Cabinet and the UPS



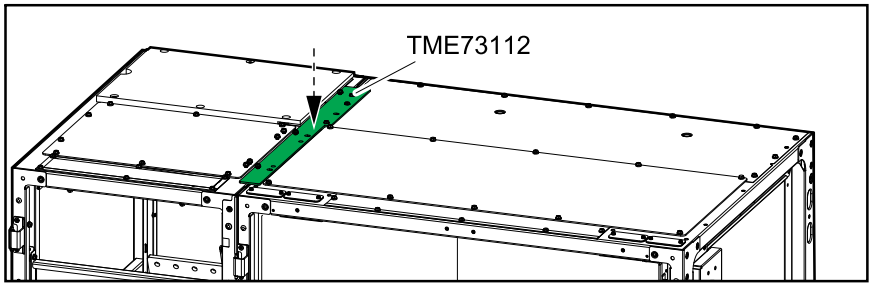
3. Install the top bracket TME73112 between the backfeed protection cabinet and the UPS:
   a. Remove the plywood plate from the top of the UPS.

Front View of the Backfeed Protection Cabinet and the UPS



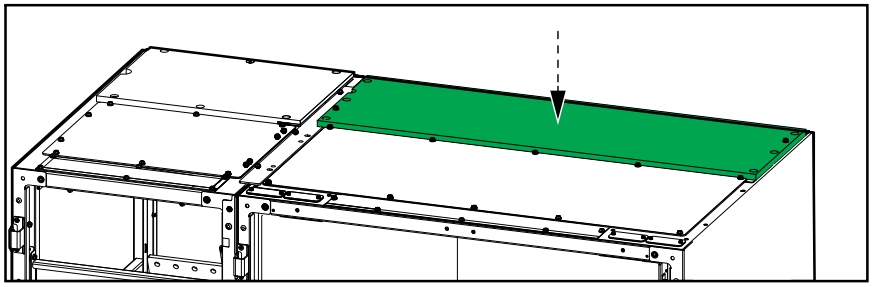
   b. Install the top bracket TME73112 between the backfeed protection cabinet and the UPS.

Front View of the Backfeed Protection Cabinet and the UPS



   c. Reinstall the plywood plate on the top of the UPS.

Front View of the Backfeed Protection Cabinet and the UPS

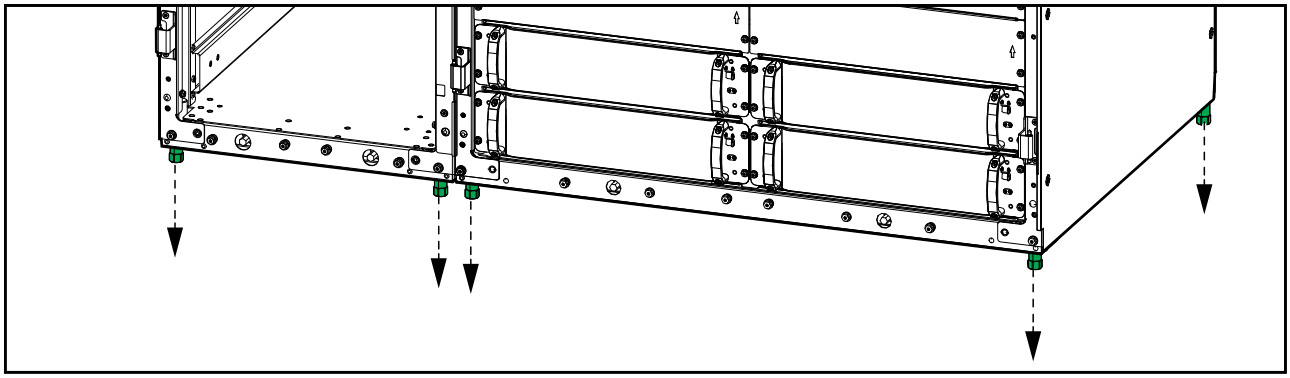


4. Push the backfeed protection cabinet and the UPS into position.

5. Lower the front and rear leveling feet on the backfeed protection cabinet and the UPS with a wrench until they have full contact with the floor. The casters must not have contact with the floor. Use a bubble-leveler to check that the cabinets are level.

NOTICE
RISK OF EQUIPMENT DAMAGE Do not move the cabinets when the leveling feet have been lowered. **Failure to follow these instructions can result in equipment damage.**

Front View of the Backfeed Protection Cabinet and the UPS



NOTE: For installations with limited rear access, only lower the two front feet of each cabinet.

Install the Seismic Anchoring and Position the Backfeed Protection Cabinet and the UPS

Use the optional seismic anchoring kit GVXLOPT002, the saved transportation brackets from the unpacking of the backfeed protection cabinet, the top bracket TME73112, and installation bag number 1 and 2 for this procedure.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Cover the front of the UPS with a plastic sheet while making anchoring holes to prevent dust or other conductive particles from entering the cabinet.

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

⚠WARNING

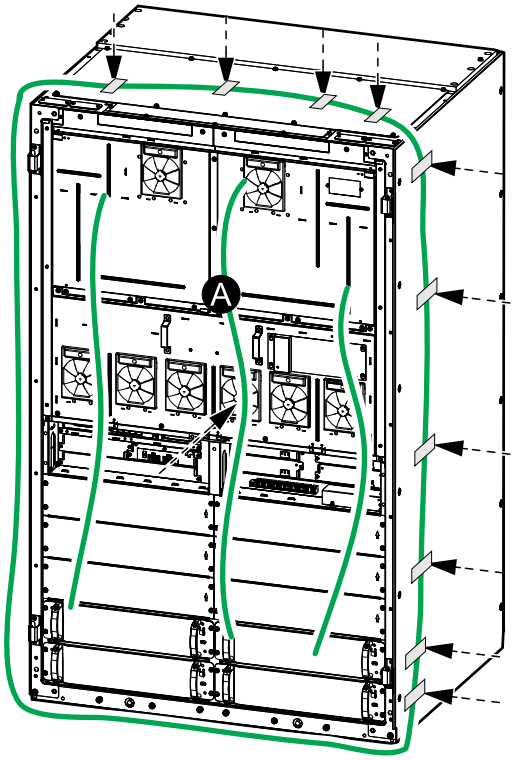
HAZARD OF TILTING

All rear and front seismic anchoring brackets must be installed.

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

1. Cover the front of the UPS with a plastic sheet (marked (A) in the illustration) to protect against dust from drilling in the floor. Fasten the plastic sheet to the UPS with tape or similar to create a seal. The packaging bag can be cut and reused for the plastic sheet.

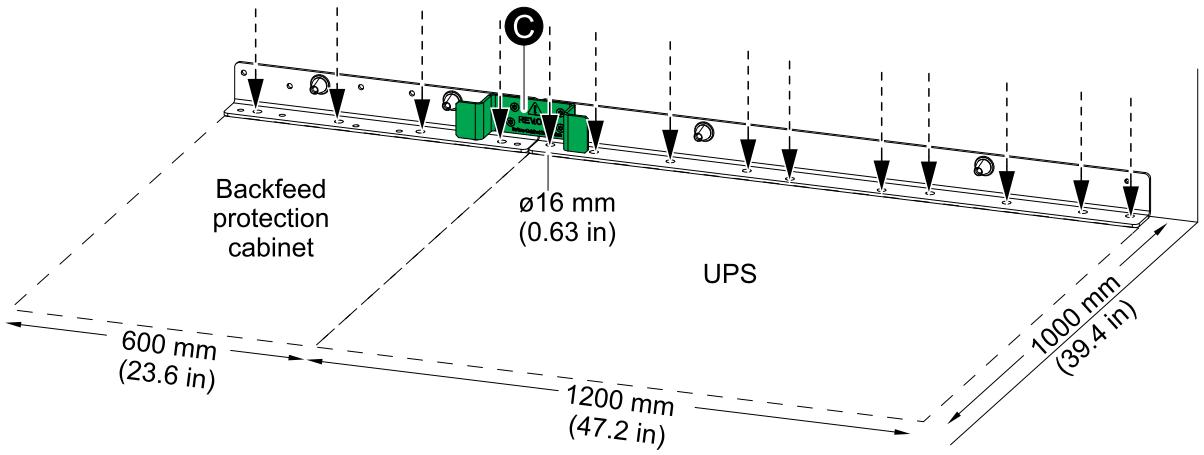
   Front View of the UPS



2. Place the rear seismic anchoring brackets in the final installation area. The rear seismic anchoring brackets were removed from the UPS and the backfeed protection cabinet during unpacking of the cabinets.

3. Connect the rear anchoring brackets for the UPS and the backfeed protection cabinet with the interconnection plate (marked (C) in the illustration). Use the screws provided in installation bag number 1. Mark the 14 anchoring holes in the rear seismic anchoring bracket assembly on the floor.

Front View

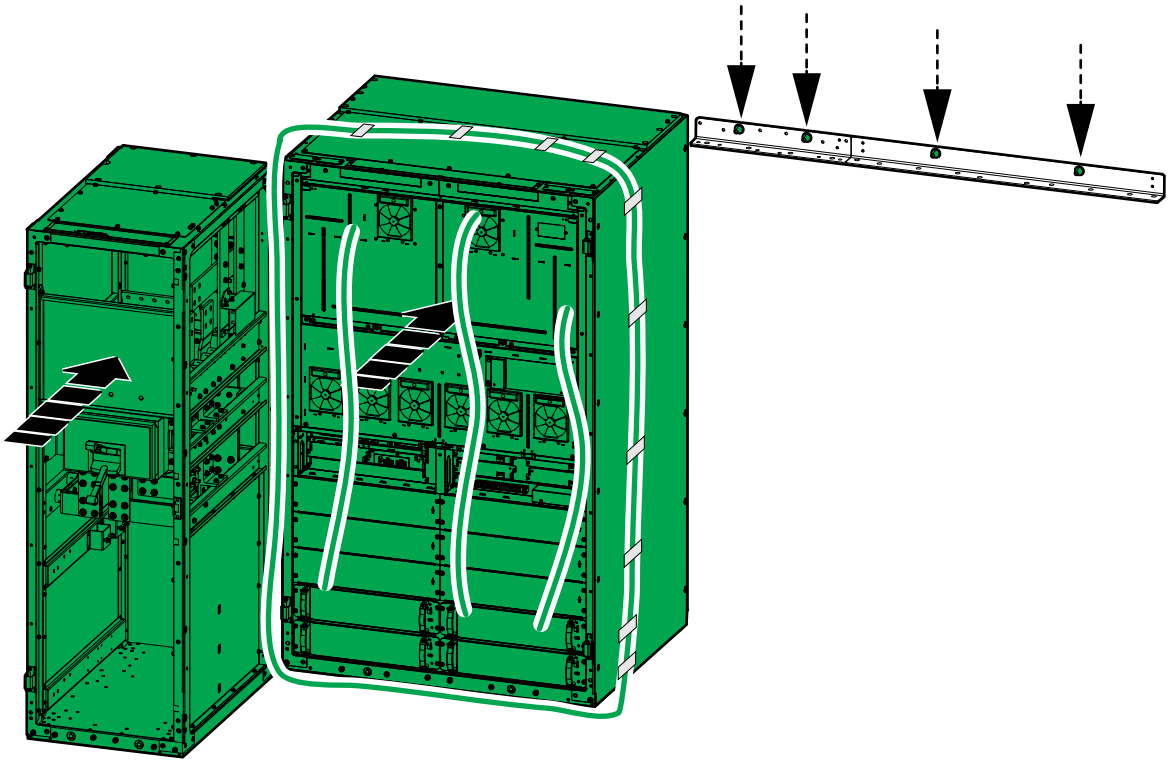


4. Drill the 14 anchoring holes according to national and local requirements.
5. Remove the interconnection plate (marked (C) in the illustration) from the rear seismic anchoring brackets.
6. Mount the rear seismic anchoring brackets to the floor. Use appropriate hardware for the floor type – the hole diameter in the rear seismic anchoring brackets is ø16 mm. Minimum requirement is M12 strength grade 8.8 hardware (not provided).
7. Use a bubble-leveler to ensure that the rear seismic anchoring brackets are level. Use leveling shims if necessary.

8. Push the UPS and the backfeed protection cabinet into position against the rear seismic anchoring brackets - the cabinets will connect to the conic outcroppings on the rear seismic anchoring brackets.

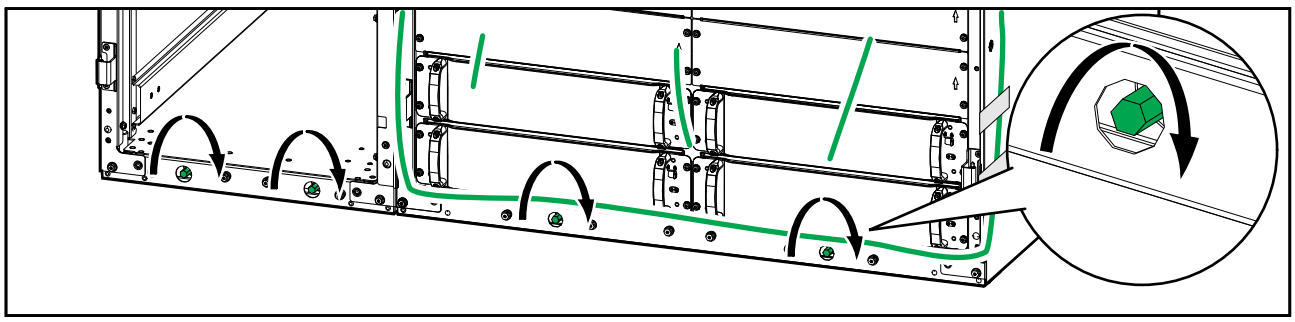
> **⚠CAUTION**
>
> **RISK OF EQUIPMENT DAMAGE**
>
> When pushing the UPS into position, push on the frame to avoid damaging the signal cables/plates.
>
> **Failure to follow these instructions can result in injury or equipment damage.**

Front View of the Backfeed Protection Cabinet and the UPS



9. Fasten the cabinets to the rear seismic anchoring brackets by tightening the bolts on the front of the cabinets. Torque to 50 Nm.

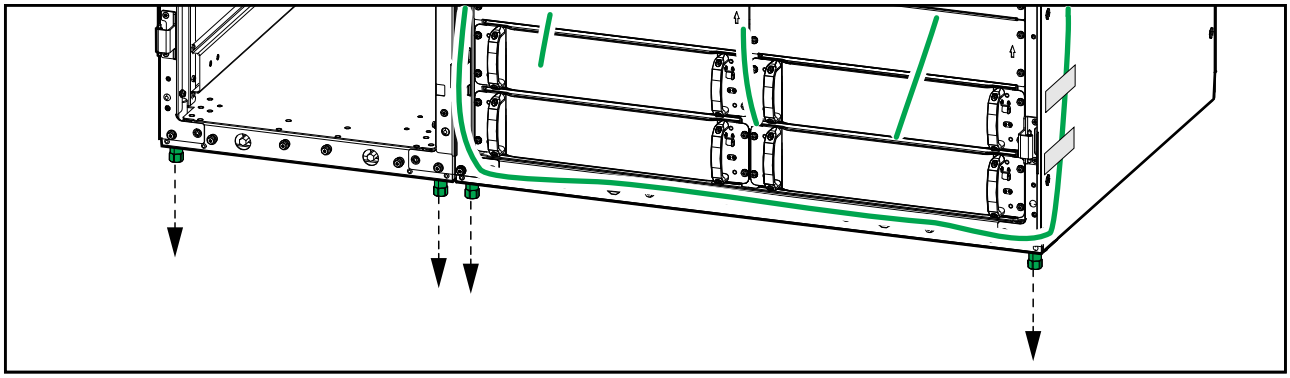
Front View of the Backfeed Protection Cabinet and the UPS



10. Lower the two front feet on the UPS and the backfeed protection cabinet until the feet have full contact with the floor – use a bubble-leveler to ensure that the cabinets are level.

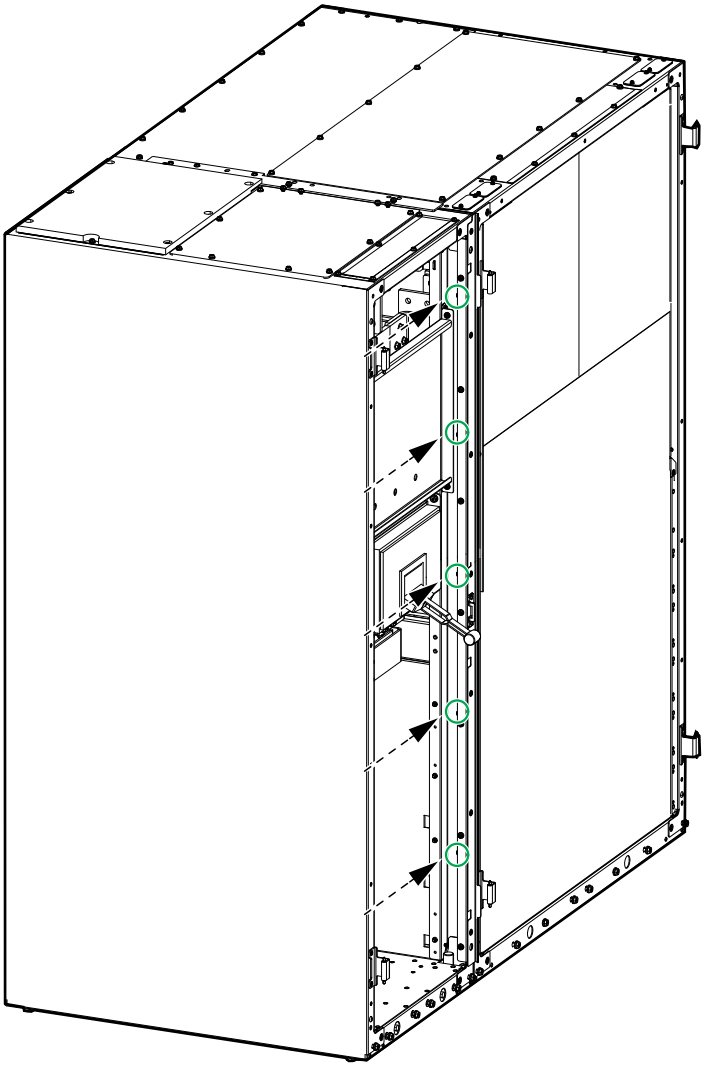
NOTICE
RISK OF EQUIPMENT DAMAGE Do not move the cabinets when the leveling feet have been lowered. **Failure to follow these instructions can result in equipment damage.**

Front View of the Backfeed Protection Cabinet and the UPS



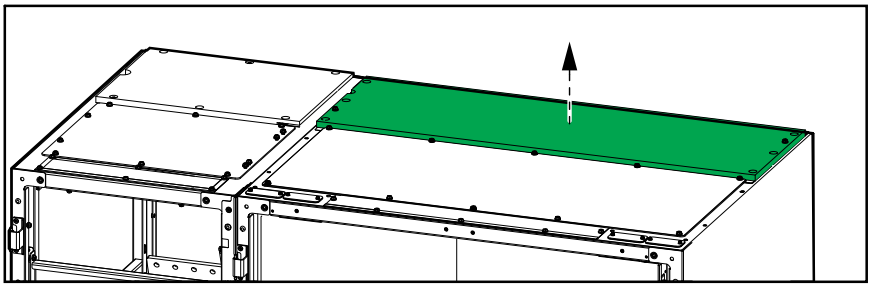
11. Interconnect the backfeed protection cabinet and the UPS in the front with five screws as shown. The screws are provided in installation bag number 2.

Front Left View of the Backfeed Protection Cabinet and the UPS



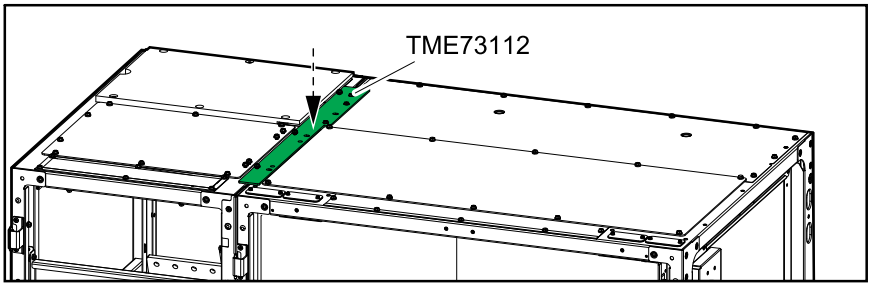
12. Install the top bracket TME73112 between the backfeed protection cabinet and the UPS:
    a. Remove the plywood plate from the top of the UPS.

Front View of the Backfeed Protection Cabinet and the UPS



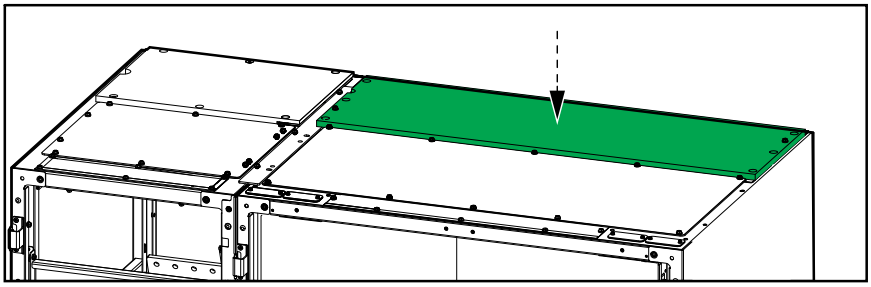
    b. Install the top bracket TME73112 between the backfeed protection cabinet and the UPS.

Front View of the Backfeed Protection Cabinet and the UPS



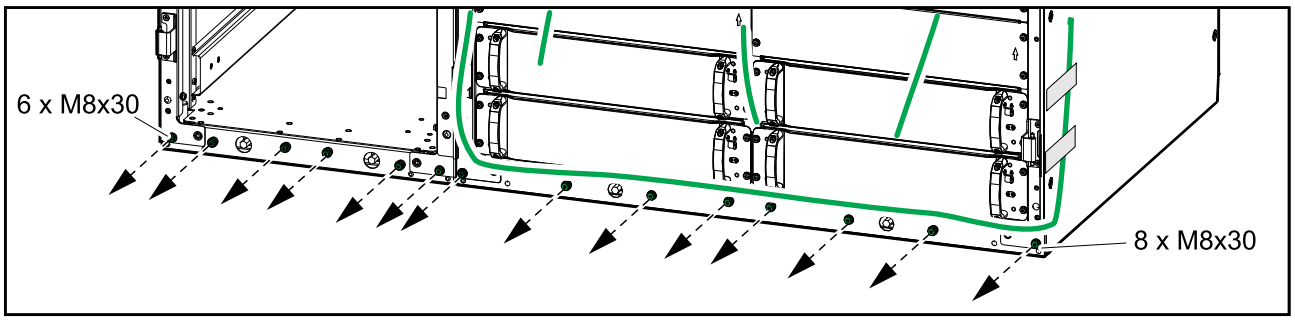
    c. Reinstall the plywood plate on the top of the UPS.

Front View of the Backfeed Protection Cabinet and the UPS



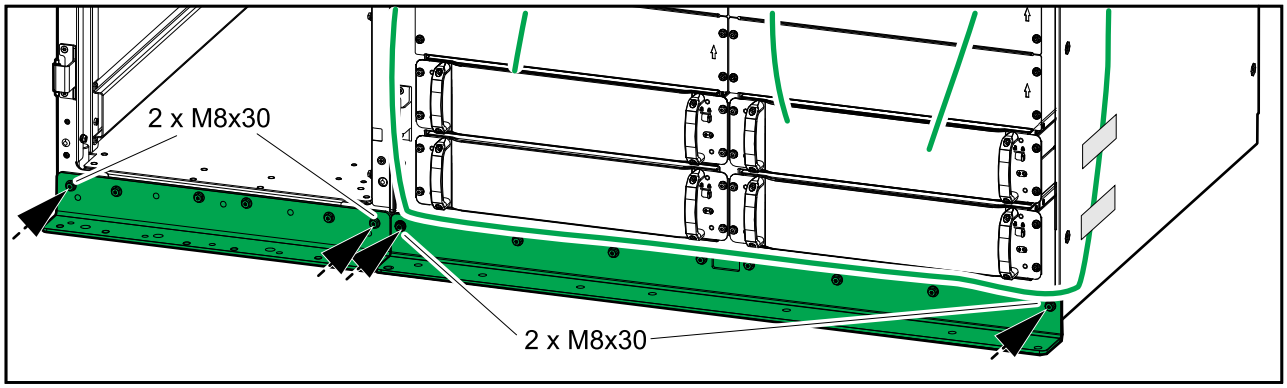
13. Remove the eight M8x30 screws from the front of the UPS. Remove the six M8x30 screws from the front of the backfeed protection cabinet. Save the screws as they are reused for the front seismic anchoring brackets.

Front View of the Backfeed Protection Cabinet and the UPS



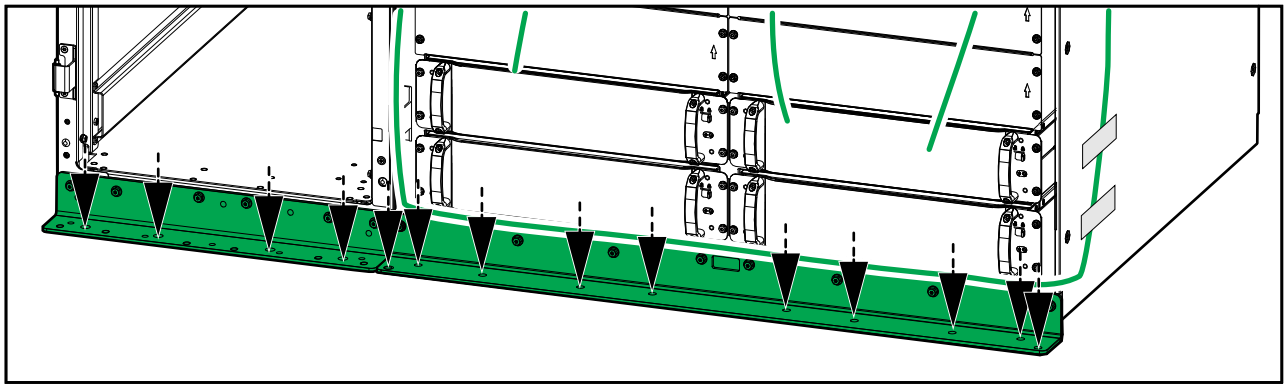
14. Install the front seismic anchoring bracket on the backfeed protection cabinet with two M8x30 screws. Install the front seismic anchoring bracket on the UPS with two M8x30 screws.

Front View of the Backfeed Protection Cabinet and the UPS



15. Mark the 14 hole locations on the floor.

Front View of the Backfeed Protection Cabinet and the UPS

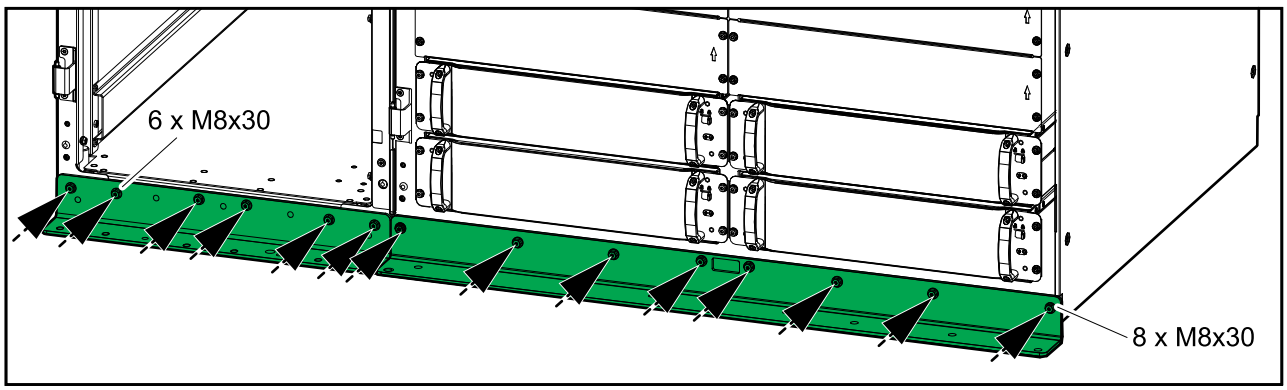


16. Remove the front anchoring brackets from the backfeed protection cabinet and the UPS. Secure the plastic sheet against the UPS with tape to create a seal.

    NOTE: The plastic sheet must be tight against the frame to protect the power modules from dust when drilling holes in the floor.

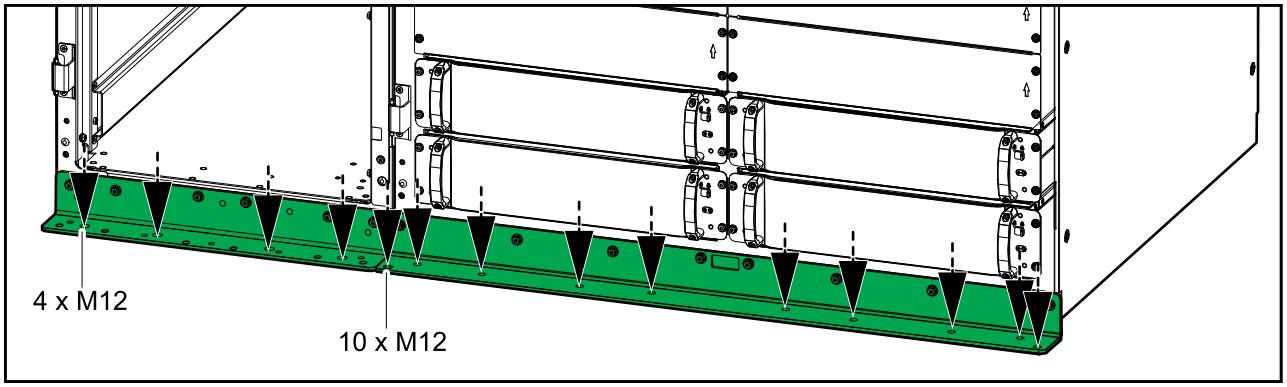
17. Drill the 14 anchoring holes according to national and local requirements.
18. Remove the plastic sheet from the front of the UPS.
19. Reinstall the front seismic anchoring bracket on the backfeed protection cabinet with the six reused M8x30 screws. Reinstall the front seismic anchoring bracket on the UPS with the eight reused M8x30 screws.

Front View of the Backfeed Protection Cabinet and the UPS



20. Mount the front seismic anchoring brackets to the floor. Use appropriate hardware for the floor type – the hole diameter in the front seismic anchoring brackets is ø16 mm. Minimum requirement is M12 strength grade 8.8 hardware (not provided).

Front View of the Backfeed Protection Cabinet and the UPS

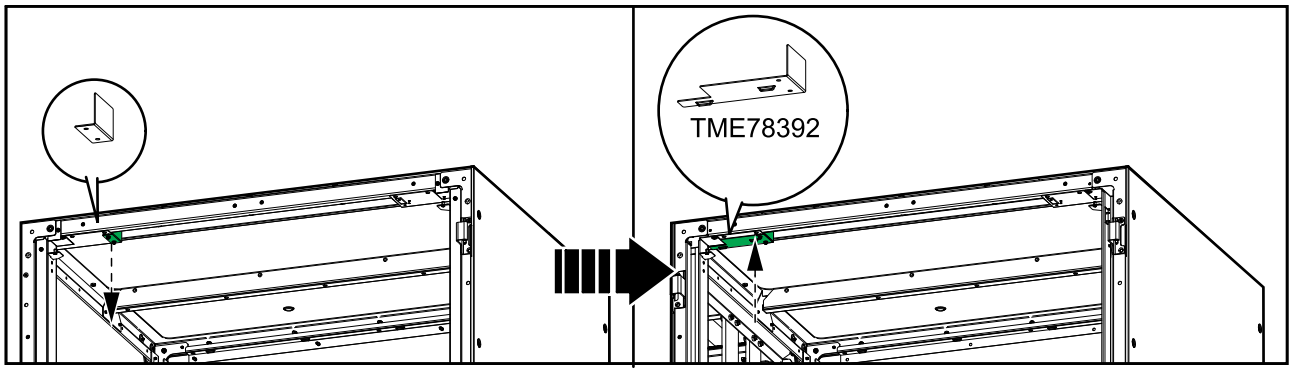


Install Interconnection Busbars and Power Cables in the Backfeed Protection Cabinet and the UPS (380/400/415 V)

NOTE: Use the neutral extension busbar JPT04181, the neutral interconnection busbar TME73420, the interconnection busbar assembly JPT00104, the part TME78392 (provided in installation kit TME86016), the interconnection ground busbar TME73425 (provided in installation kit TME86016), spring washers (provided in installation kit 0M-18450), and hardware from installation bag number 3, 4, 5, and 6 for this procedure.

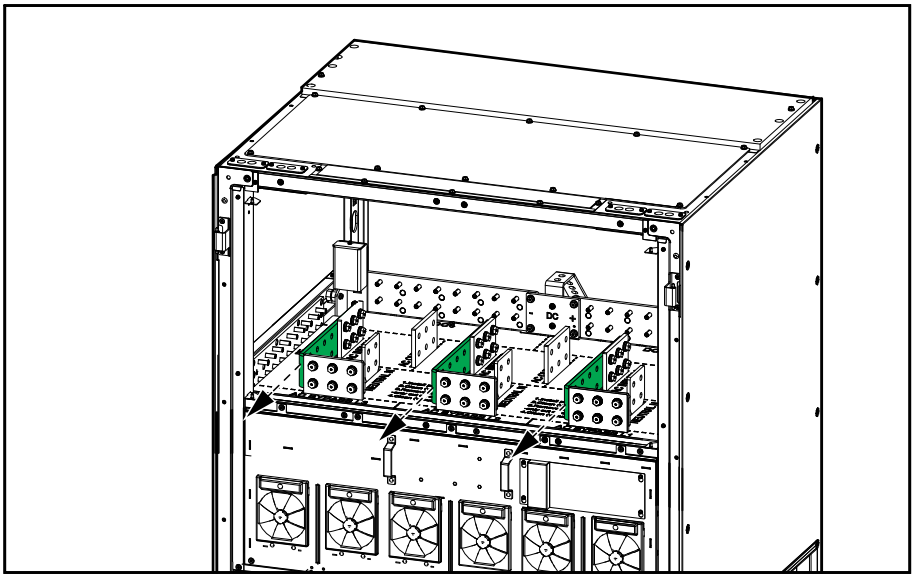
1. Remove the transparent plate from the backfeed protection cabinet.
2. Open and remove the inner doors from the UPS – see the UPS installation manual for details.
3. In the top left side of the UPS, remove the indicated part and save the screws. Install the new provided part TME78392 as shown in the UPS with the reused screws.

Front View of the UPS



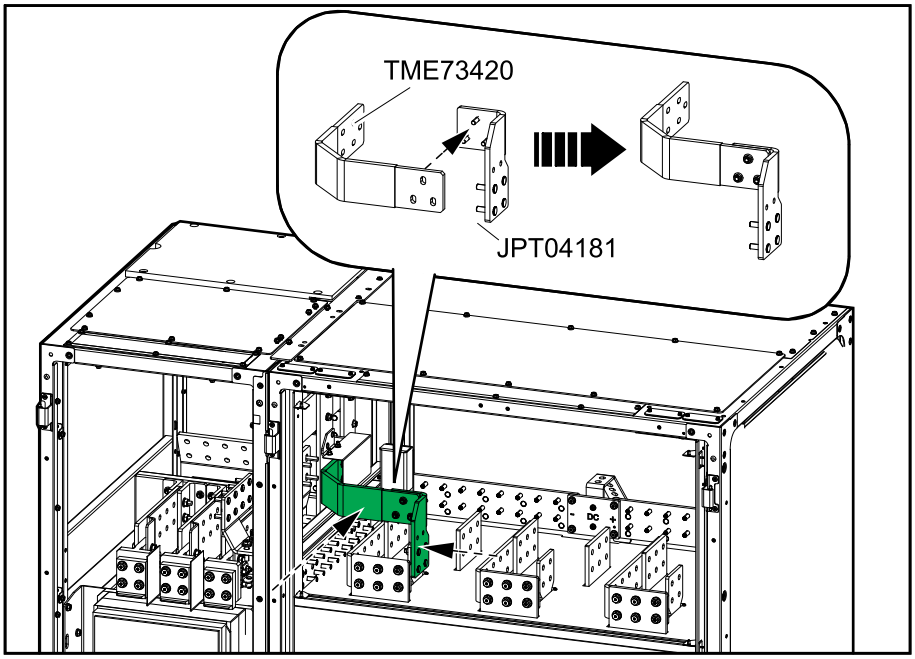
4. **Only for dual mains system**: Remove the three single mains busbars. Save the three single mains busbars for testing during start-up of the UPS.

Front View of the UPS



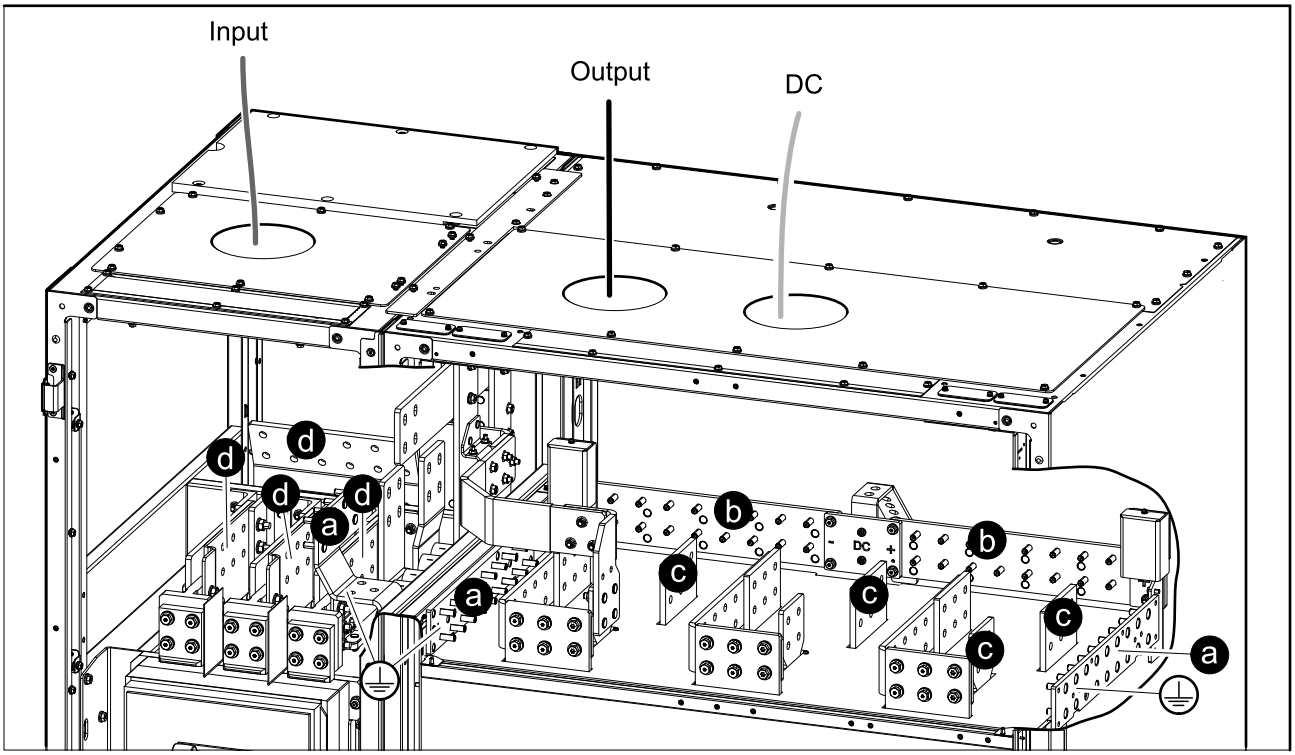
5. Install the neutral busbar assembly:
   a. Install the neutral extension busbar JPT04181 in the UPS as shown. Use four M10 nuts provided in installation bag number 3.
   b. Install the neutral interconnection busbar TME73420 between the neutral busbars in the UPS and the backfeed protection cabinet. Use eight M8 nuts provided in installation bag number 3.

Front View of the Backfeed Protection Cabinet and the UPS

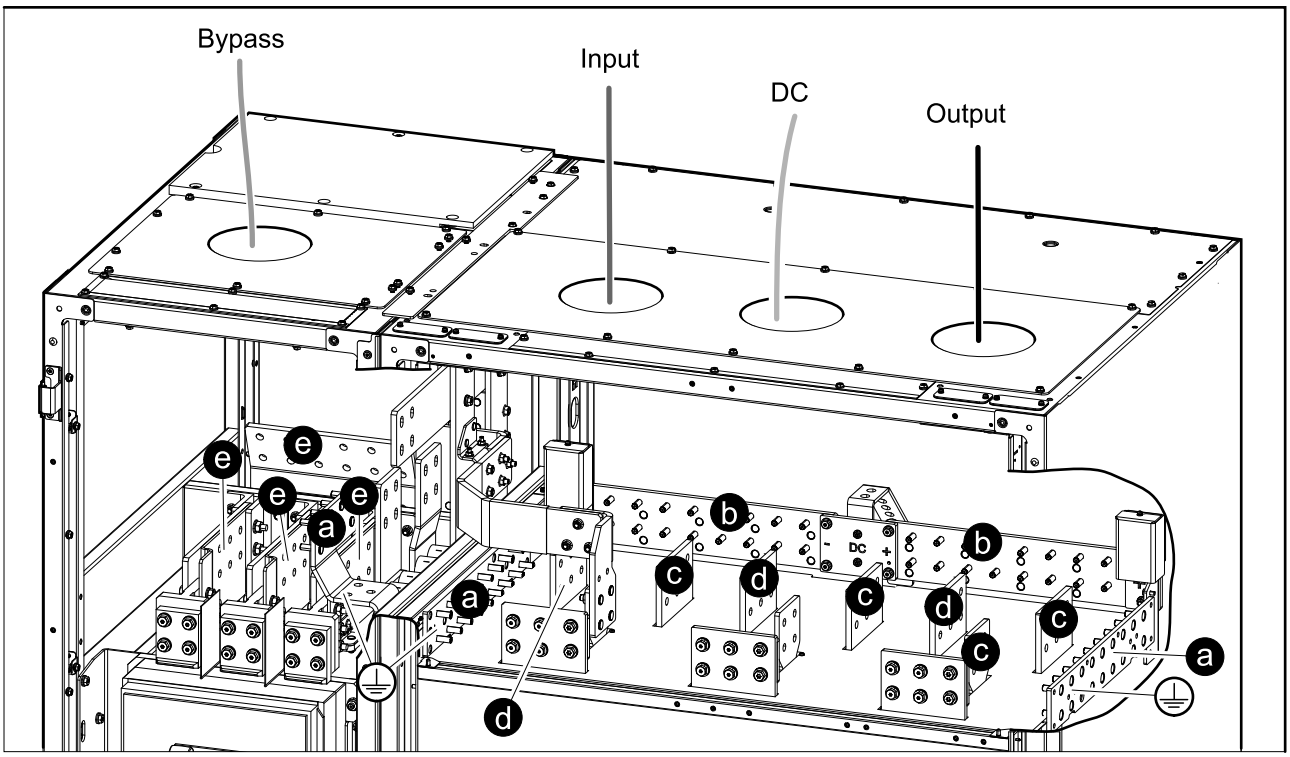


6. Connect the power cables:

Front View of the Backfeed Protection Cabinet and the UPS – Single Mains

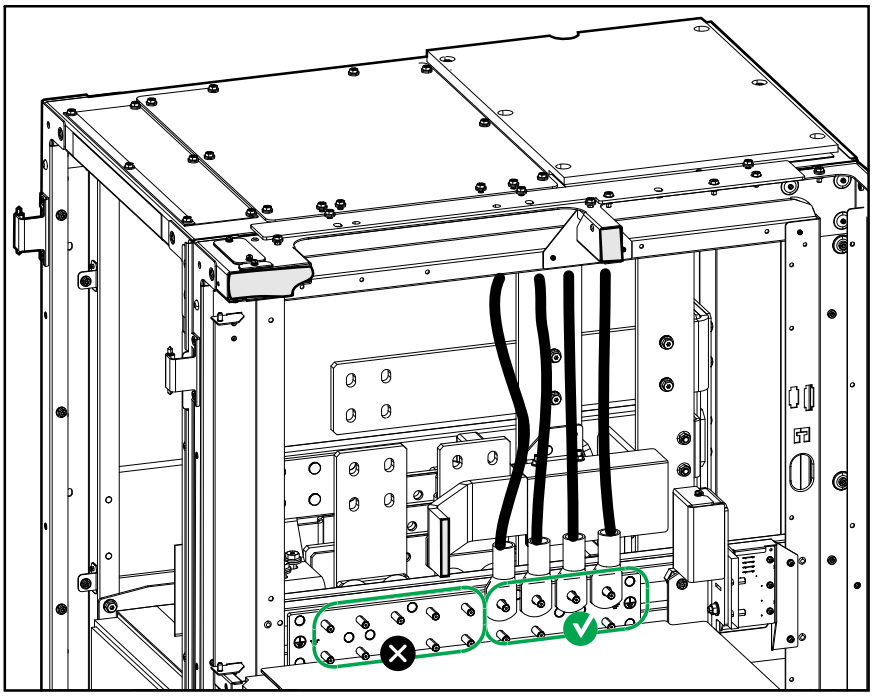


Front View of the Backfeed Protection Cabinet and the UPS – Dual Mains



a. Connect the PE cables. Note that only the four rear-most positions on PE busbar in the left side of the UPS can be used. All positions on the PE busbar in the right side of the UPS can be used.

View of the PE Busbar in the Left Side of the UPS



b. Connect the DC- cables. Connect the DC+ cables. **Ensure correct polarity – incorrect polarity will damage the power modules at start-up.**

⚠CAUTION

RISK OF EQUIPMENT DAMAGE

Ensure correct connection of DC cables. Ensure correct polarity – incorrect polarity will damage the power modules at start-up.

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

c. Connect the output cables (L1, L2, L3, N). Note that the two N busbars in the UPS are common.

d. Connect the input cables (L1, L2, L3, N). Note that the two N busbars in the UPS are common.

e. **Only for dual mains system**: Connect the bypass cables (L1, L2, L3, N).

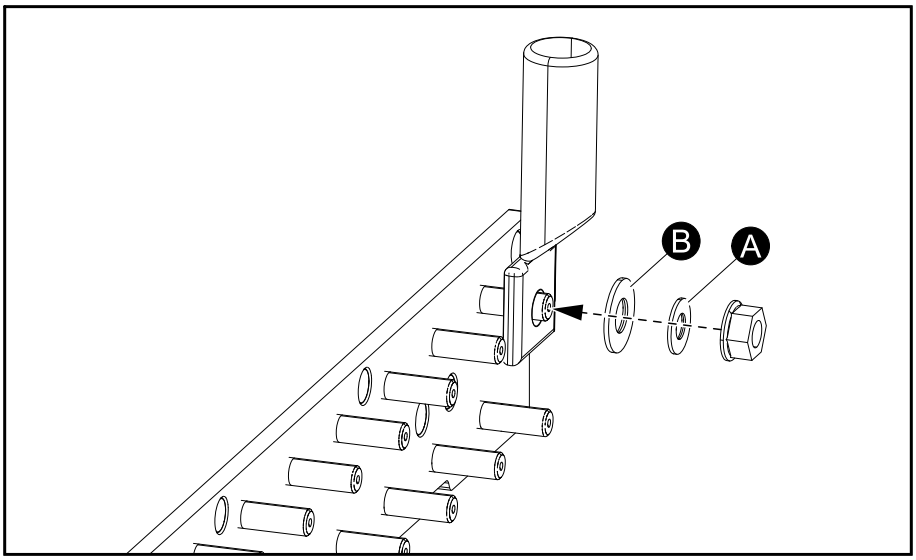
⚠CAUTION

RISK OF CABLE LUG DISCONNECTION

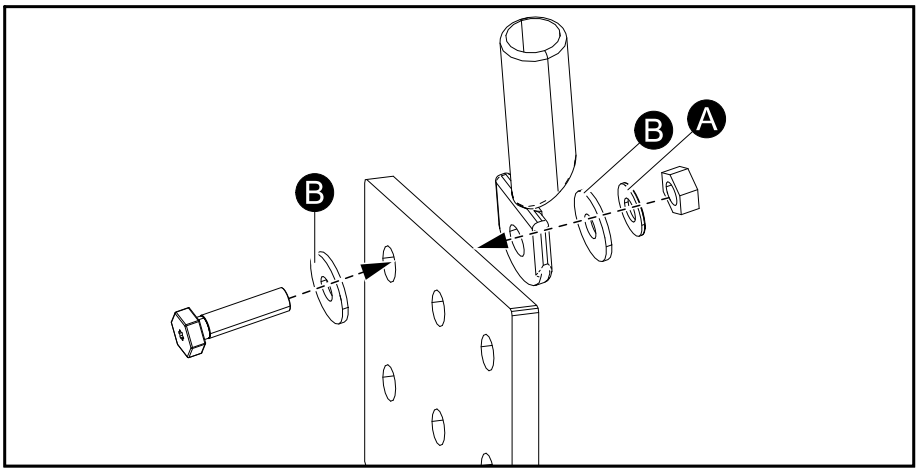
- Use the provided spring washers when connecting the cable lugs to the busbars as shown in the illustration.
- Connect the cable lugs to the busbars as shown in the illustration.

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

Cable Lug to Busbar Assembly



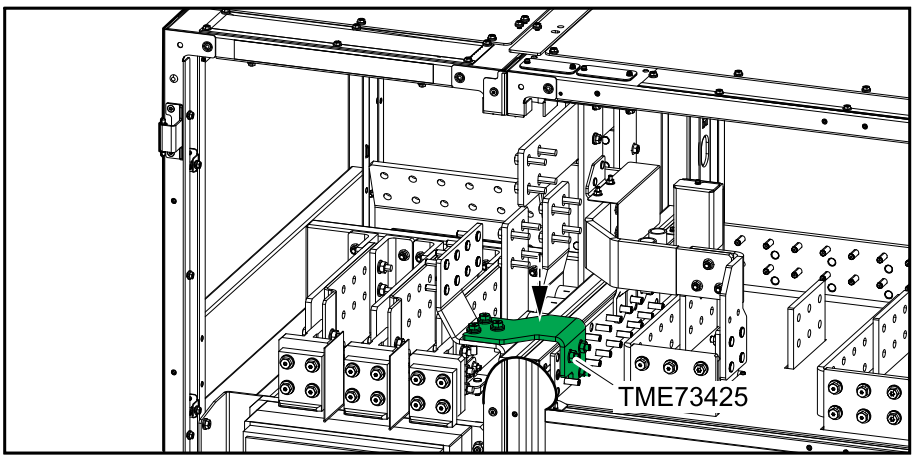
Cable Lug to Busbar Assembly



The spring washers (marked with (A) in the illustration) are provided in installation kit 0M-18450. The flat washers (marked with (B) in the illustration), bolts, and nuts are not provided.

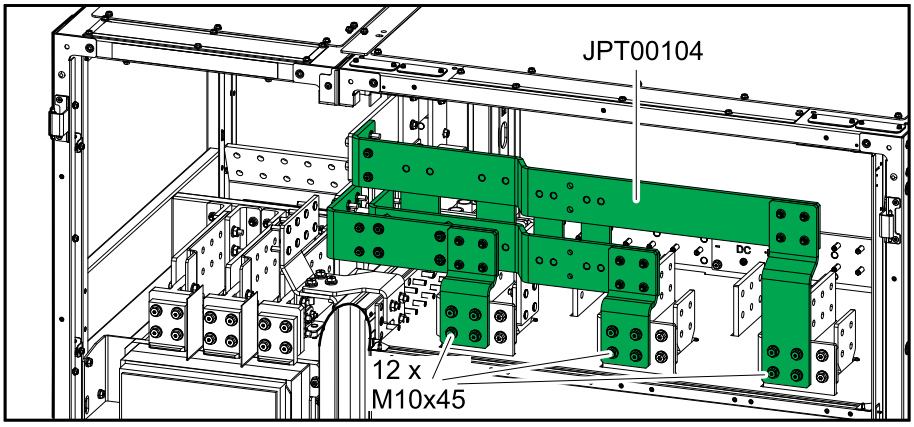
7. Install the interconnection ground busbar TME73425 between the PE/ground busbars in the UPS and the backfeed protection cabinet. Use three M10 bolts and three M10 nuts provided in installation bag number 4.

Front View of the Backfeed Protection Cabinet and the UPS



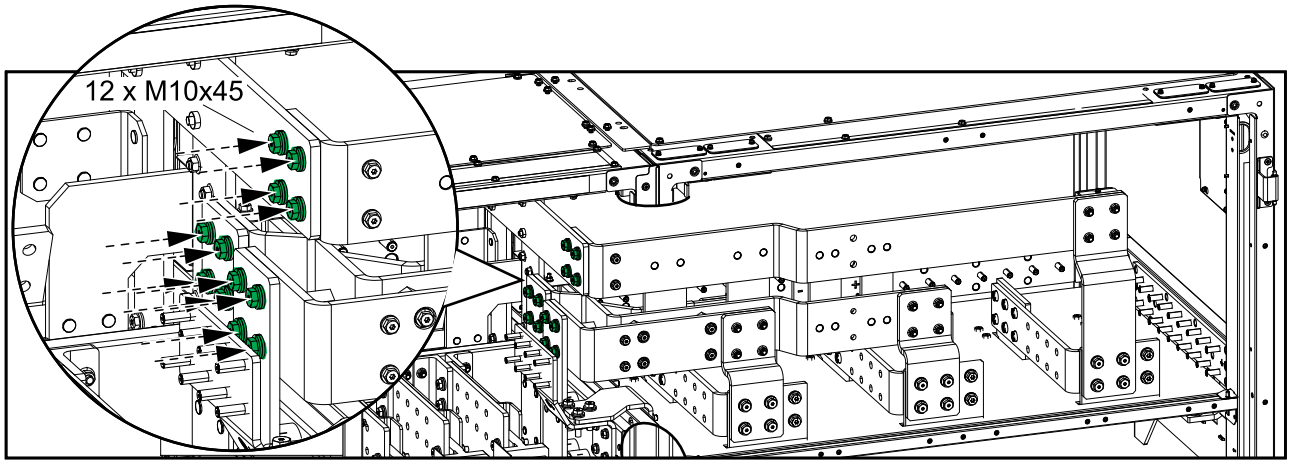
8. Install the busbar assembly JPT00104 by performing one of the following:
   - **For single mains**: Install the busbar assembly JPT00104 on the bypass busbars (L1, L2, L3) in the UPS. Use 12 M10x45 bolts provided in installation bag number 5. **OR**
   - **For dual mains**: Install the busbar assembly JPT00104 on the bypass busbars (L1, L2, L3) in the UPS. Use 12 M10x45 bolts provided in installation bag number 5 and 12 M10 nuts provided in installation bag number 7.

Front View of the Backfeed Protection Cabinet and the UPS



9. Mount the busbar assembly JPT00104 on the busbars (L1, L2, L3) in the backfeed protection cabinet. Use 12 M10x45 bolts provided in installation bag number 6.

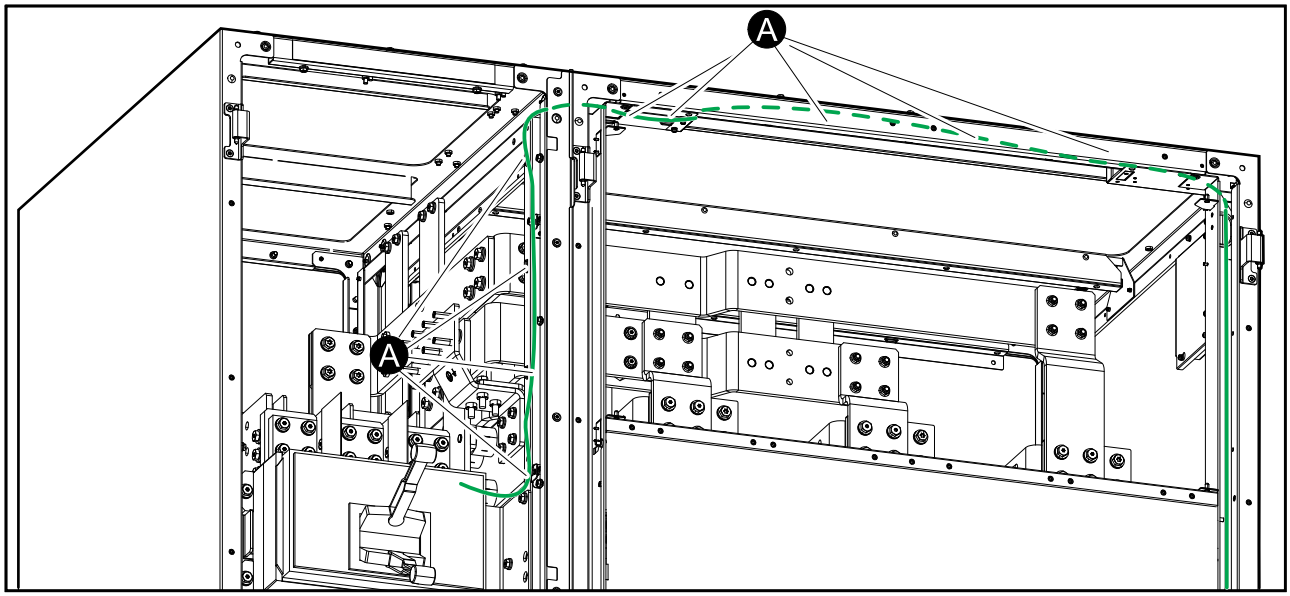
Front View of the Backfeed Protection Cabinet and the UPS



Connect the Backfeed Signal Cable Between the Backfeed Protection Cabinet and the UPS

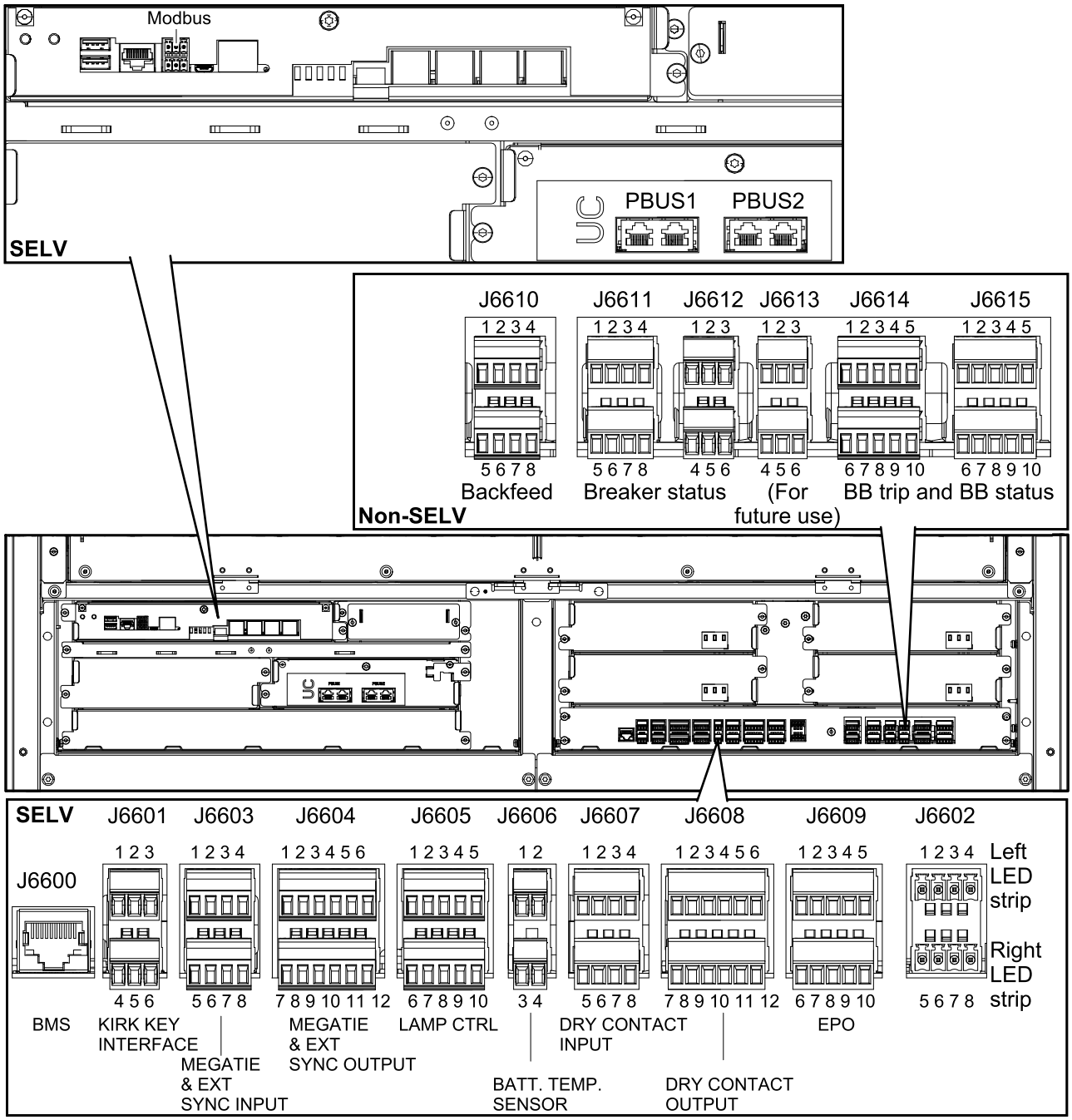
1. Route the preinstalled backfeed signal cable from the backfeed disconnect device BF2 into the UPS as shown. Fasten the backfeed signal cable with cable ties in the marked locations (marked with (A) in the illustration).

Front View of the Backfeed Protection Cabinet and the UPS



2. Route the backfeed signal cable to terminal J6610 in the UPS and connect. The connector labelled 0P4753-J6610-UPPER must be connected to J6610 (1,2,3,4). The connector labelled 0P4753-J6610-LOWER must be connected to J6610 (5,6,7,8).

Front View of Signal Connection Terminals in the UPS



Add Translated Safety Labels to Your Product

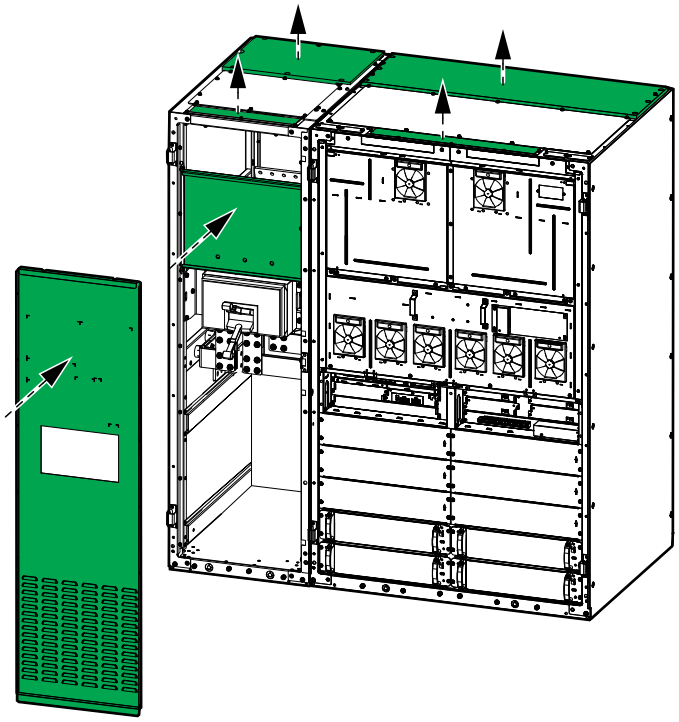
The safety labels on your product are in English and French. Sheets with translated safety labels are provided with your product.

1. Find the sheets with translated safety labels provided with your product.
2. Check which 885-xxx/TMExxxx numbers are on the sheet with translated safety labels.
3. Locate the safety labels on your product that match the translated safety labels on the sheet – look for the 885-xxx/TMExxxx/JPTxxxx numbers.
4. Add the replacement safety label in your preferred language to your product on top of the existing French safety label.

Final Installation

1. In the UPS, remove all debris and clean the cabling area. Remove the cardboard from the cabling area, and ensure that no cardboard pieces are left in the cabinet. Clean and vacuum the cabling area. See the UPS installation manual for details.
2. Reinstall and close the inner doors on the UPS. See the UPS installation manual for details.
3. Reinstall the transparent plate, the front cover, and the front door on the backfeed protection cabinet.
4. Remove the plywood plates and the dust protection labels from the top of the backfeed protection cabinet and the UPS.

Front View of the Backfeed Protection Cabinet and the UPS



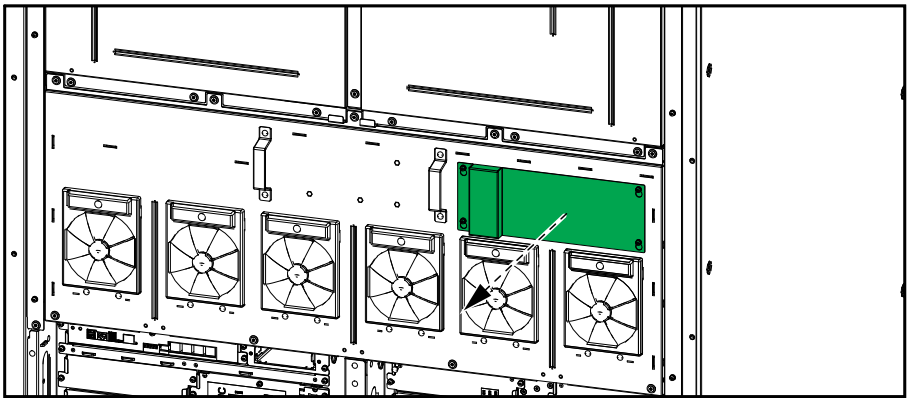
5. Follow the UPS installation manual to finish the installation of the UPS system.

Decommission or Move the Backfeed Protection Cabinet to a New Location

NOTE: Follow the instructions in the UPS installation manual to prepare the UPS for being moved/decommissioned.

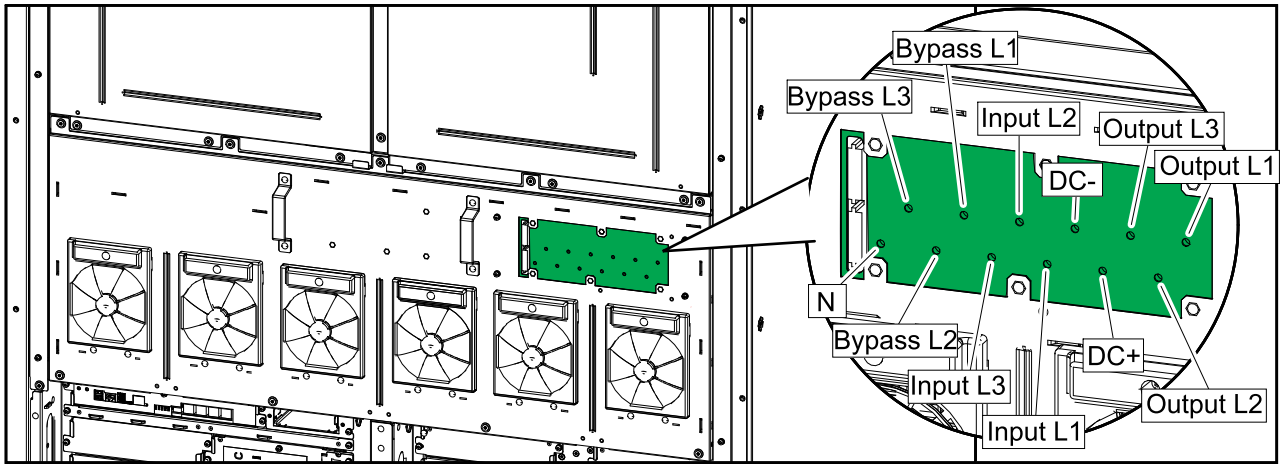
1. Shut down the UPS system completely.
2. Lockout/Tagout the backfeed disconnect device BF2 in the backfeed protection cabinet in the OFF (open) position.
3. Lockout/Tagout all disconnect devices in the upstream switchgear in the OFF (open) position.
4. Lockout/Tagout all battery disconnect device in the switchgear/battery solution in the OFF (open) position.
5. Open the front door of the backfeed protection cabinet and the UPS.
6. On the UPS, remove the plate from the measurement points. Save for reinstallation.

Front View of the UPS



7. On the UPS, measure for and verify ABSENCE of voltage with a multimeter probe through the holes in the transparent plate for input, bypass, output, neutral, and DC.

Front View of the UPS



8. On the backfeed protection cabinet, remove the front cover. Measure for and verify ABSENCE of voltage with a multimeter probe through the holes in the transparent plate for input in a single mains system or for bypass in a dual mains system.
9. Remove the inner doors from the UPS. See the UPS installation manual for details.

10. Remove the transparent plate from the backfeed protection cabinet.
11. On both cabinets, measure for and verify ABSENCE of voltage on each input/bypass/output/DC busbar before continuing.

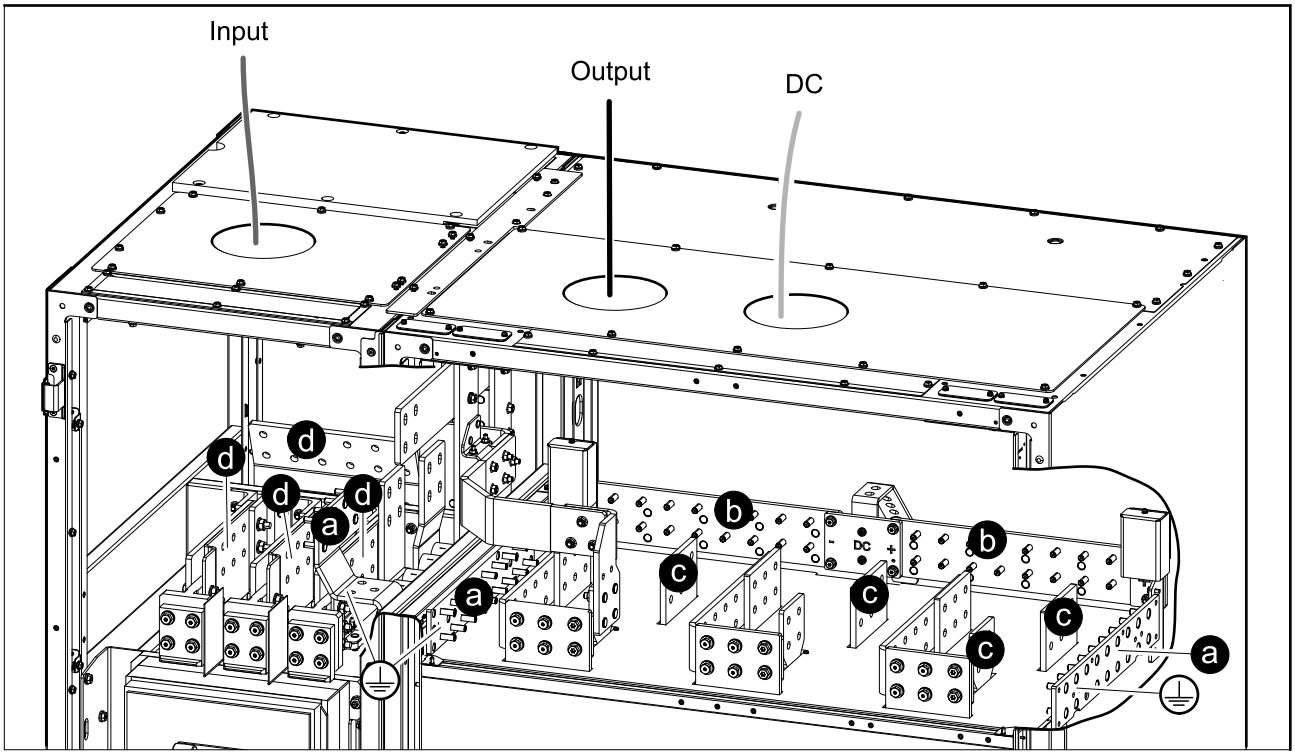
⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

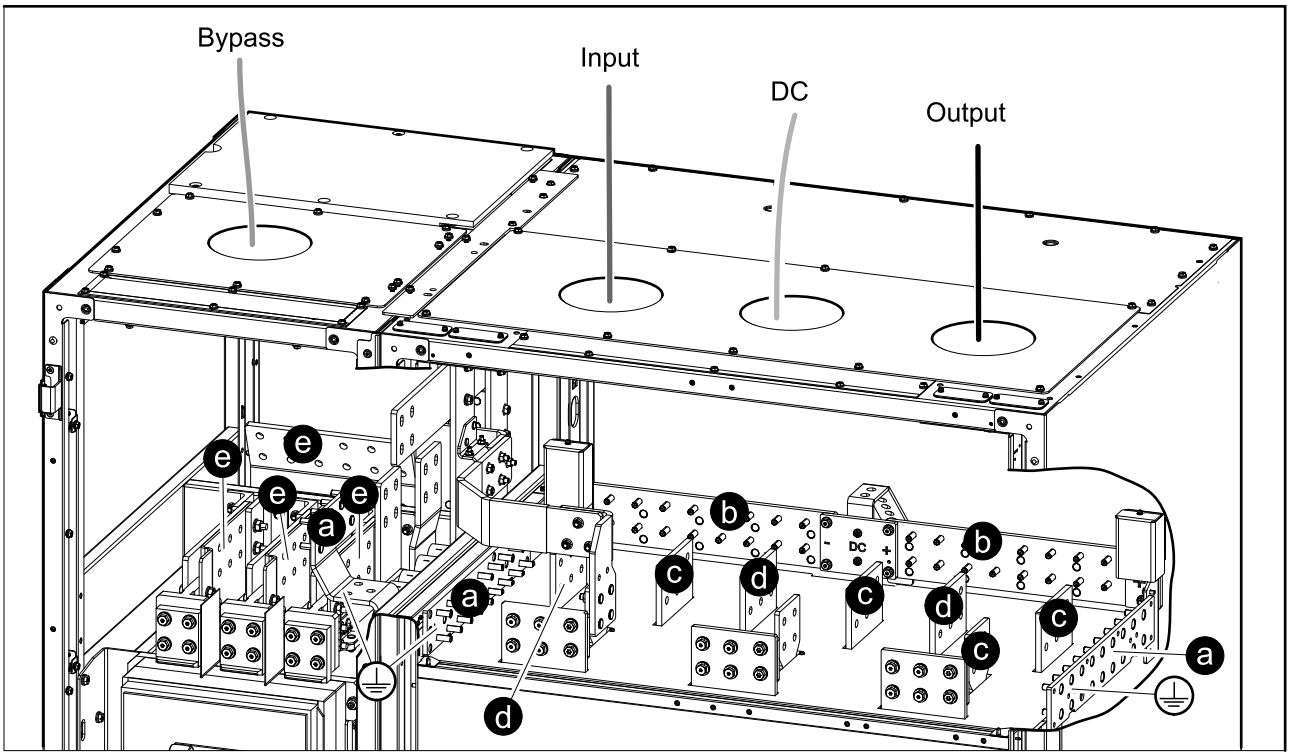
Measure for and verify ABSENCE of voltage on each input/bypass/output/DC busbar before continuing.

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

Front View of the Backfeed Protection Cabinet and the UPS – Single Mains



Front View of the Backfeed Protection Cabinet and the UPS – Dual Mains



a. Measure for and verify ABSENCE of voltage on PE busbar.

b. Measure for and verify ABSENCE of voltage on DC busbars (DC+, DC-).

c. Measure for and verify ABSENCE of voltage on output busbars (L1, L2, L3, N).

d. Measure for and verify ABSENCE of voltage on input busbars (L1, L2, L3, N).

e. **Only for a dual mains system**: Measure for and verify ABSENCE of voltage on bypass busbars (L1, L2, L3, N).

12. Remove the interconnection busbars between the UPS and the backfeed protection cabinet. Disconnect and remove the power cables from the UPS and the backfeed protection cabinet. See Install Interconnection Busbars and Power Cables in the Backfeed Protection Cabinet and the UPS (380/400/415 V), page 31. Save all parts for reinstallation.
13. Disconnect and remove the backfeed signal cable between the UPS and the backfeed protection cabinet. See Connect the Backfeed Signal Cable Between the Backfeed Protection Cabinet and the UPS, page 37 for details.
14. Remove the top bracket and the interconnection screws from the front of the UPS and the backfeed protection cabinet. See Position the Backfeed Protection Cabinet and the UPS without Seismic Anchoring, page 20 or Install the Seismic Anchoring and Position the Backfeed Protection Cabinet and the UPS, page 23 for details. Save all parts for reinstallation.

15. **If external sync is present**: Remove the transparent protection cover from the external synchronization board 0P4809 in the UPS. Disconnect the signal cables from the external synchronization board 0P4809. See the UPS installation manual for details.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Check for absence of voltage for all three signal terminals on the external synchronization board 0P4809. When the external synchronization cables are installed, the terminals on the external synchronization board 0P4809 may be energized. Disconnect the fuse disconnector device at the source before removing the transparent protection cover.

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

16. Disconnect and remove any signal cables from the UPS.
17. Reinstall the inner doors in the UPS. See the UPS installation manual for details.
18. If present, remove the front seismic anchoring brackets from the UPS and the backfeed protection cabinet. Save for reinstallation.
19. Reinstall the transparent plate and the front cover on the backfeed protection cabinet. Close and lock the front door of the backfeed protection cabinet.
20. Remove the left side panel from the backfeed protection cabinet and install it on the left side of the UPS cabinet.
21. Close and lock the front door of the UPS. Follow the UPS installation manual to finish decommissioning the UPS.
22. Raise the feet of the backfeed protection cabinet until the casters have full contact with the floor.
23. You can now move the backfeed protection cabinet by rolling it over the floor on the casters.

⚠WARNING

TIPPING HAZARD

- The casters of the backfeed protection cabinet are exclusively for transport on flat, even, hard, and horizontal surfaces.
- The casters of the backfeed protection cabinet are intended for transport over short distances (i.e. inside the same building).
- Move at a slow pace and pay close attention on the floor conditions and the balance of the backfeed protection cabinet.

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

24. If present, remove the rear seismic anchoring bracket from the floor. Save for reinstallation.

25. **For transport over longer distances or in conditions that are not suitable for the casters of the backfeed protection cabinet**:

⚠WARNING

TIPPING HAZARD

The backfeed protection cabinet can tip easily. Take appropriate precautions during handling and preparation for transport/shipment.

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

⚠WARNING

TIPPING HAZARD

For transport over longer distances or in conditions that are not suitable for the casters of the backfeed protection cabinet, ensure:

- that personnel performing the transport have necessary skill and have received adequate training;
- to use appropriate tools to safely lift and transport the backfeed protection cabinet;
- to protect the product against damage by using appropriate protection (like wrapping or packaging).

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

Transportation requirements:

- Mount the backfeed protection cabinet in a vertical position in the center of a suitable pallet with minimum pallet dimensions: 1000 mm x 1200 mm. The pallet must be suitable for the weight of the maintenance bypass cabinet: 271 kg.
- Use appropriate means of fixation to mount the backfeed protection cabinet to the pallet.
- The original shipping pallet in combination with the original transportation brackets can be reused, if in undamaged condition.

⚠DANGER

TIPPING HAZARD

- The backfeed protection cabinet must be appropriately fixed to the pallet immediately after being placed on the pallet.
- The fixation hardware must be strong enough to withstand vibrations and shocks during loading, transport, and unloading.

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

⚠WARNING

UNEXPECTED EQUIPMENT BEHAVIOR

Do not lift the backfeed protection cabinet with a forklift/pallet truck directly on the frame as it may bend or damage the frame.

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

26. Perform one of the following:
    - Decommission the backfeed protection cabinet, OR
    - Move the backfeed protection cabinet to a new location to install it.

27. **Only for installing the bacfeed cabinet in a new location**: Follow the installation manual to install the backfeed protection cabinet in the new location. See Installation Procedure, page 15 for installation overview. Startup must only be performed by Schneider Electric.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Startup must only be performed by Schneider Electric.

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

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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