Galaxy Power Distribution Unit

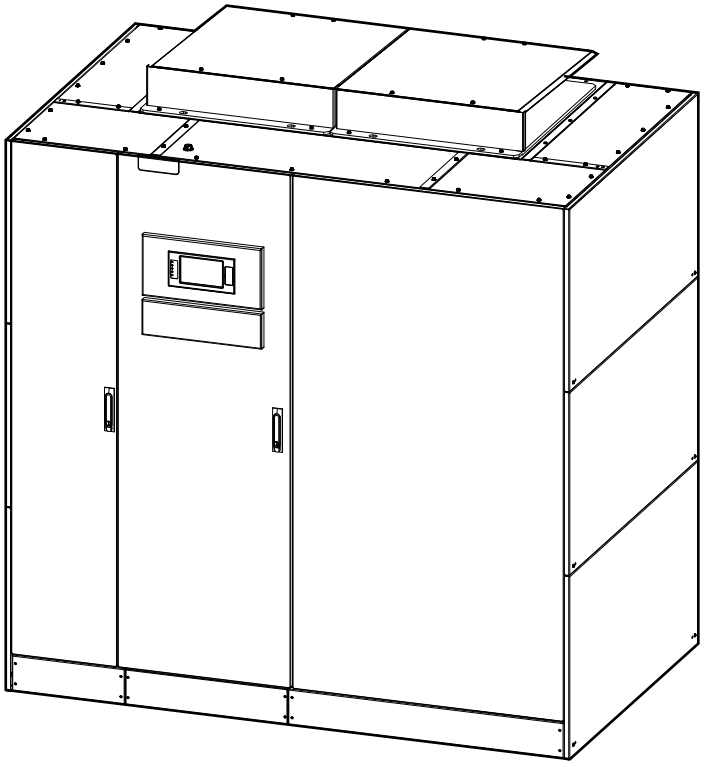
1000 kVA

Installation

PMM1000-CUB

Latest updates are available on the Schneider Electric website

6/2025



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The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

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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.

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 this 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 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 product 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 product must be installed according to local and national regulations. Install the product according to:

- 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 product.

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 this 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.

Electrical Safety

⚠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.
- Turn off all power supplying the PDU system before working on or inside the equipment.
- Before working on the PDU system, check for hazardous voltage between all terminals including the protective earth.
- A disconnection device (e.g. disconnection circuit breaker or switch) must be installed to enable isolation of the system from upstream power sources in accordance with local regulations. This disconnection device must be easily accessible and visible.
- The PDU 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.

Specifications

Input Specifications

Commercial reference	**PMM1000-CUB**
kVA	**1000**
Connections	3-wire (3P + EGC)
Input voltage (V)	480
Input current (A)	1202
Frequency (Hz)	60
Maximum short circuit rating	65 kA RMS symmetrical at 480 V

Output Specifications

Commercial reference	**PMM1000-CUB**
kVA	**1000**
Connections	4-wire (3P + N + EGC)
Output voltage (V)	400 or 415
Output current (A)	1444 A at 400 V 1392 A at 415 V
Frequency (Hz)	60
Output current protection (A)	800
Branch output (A)	800

Recommended Cables Sizes

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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

- All field wiring connections to be made with UL listed wire connectors suitable for the size and type of wire involved.
- Conduit openings to be installed only in designated terminal compartment area.
- Equipment must be field grounded using equipment grounding conductors (EGC) sized in accordance with NEC based on the main input disconnect device maximum rating.

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

Input Cables Sizes for PDU with Main Input Circuit Breaker MIB

Type	3-pole, circuit breaker MIB for 1000 kVA
Rating	1600 A, 600 V at 100%

Input Cables Sizes for PDU with Main Input Circuit Breaker MIB (Continued)

Brand		Square D by Schneider Electric
Model		RJF36160CU33B
Incoming termination wire range	Copper	5 x 500 kcmil
	Aluminum	6 x 500 kcmil

Output Cables Sizes for Branch Circuit Breaker

Rating	Branch circuit breaker	Breaking capacity		Terminal wire range	
		240 V	480 V	Aluminum	Copper
800 A at 80%	PJA36080U33A	100 kA	65 kA	3 x 350 kcmil	3 x 250 kcmil
800 A at 100%	PJA36080CU33A	100 kA	65 kA	3 x 500 kcmil	3 x 350 kcmil

Recommended Bolt and Lug Sizes for Input Cables

NOTICE

RISK OF EQUIPMENT DAMAGE

Use only UL approved compression cable lugs.

Failure to follow these instructions can result in equipment damage.

Copper

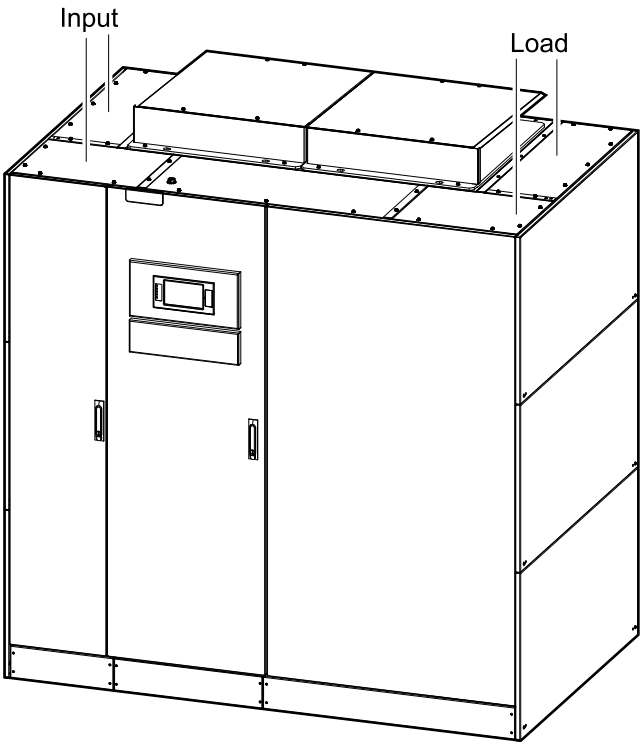
Cable size	Bolt size	Cable lug type (two hole NEMA)	Crimping tool	Die
500 kcmil	M10x35mm	LCC500-12-6	CT-930	CD-920-500 Blue P87

Aluminum

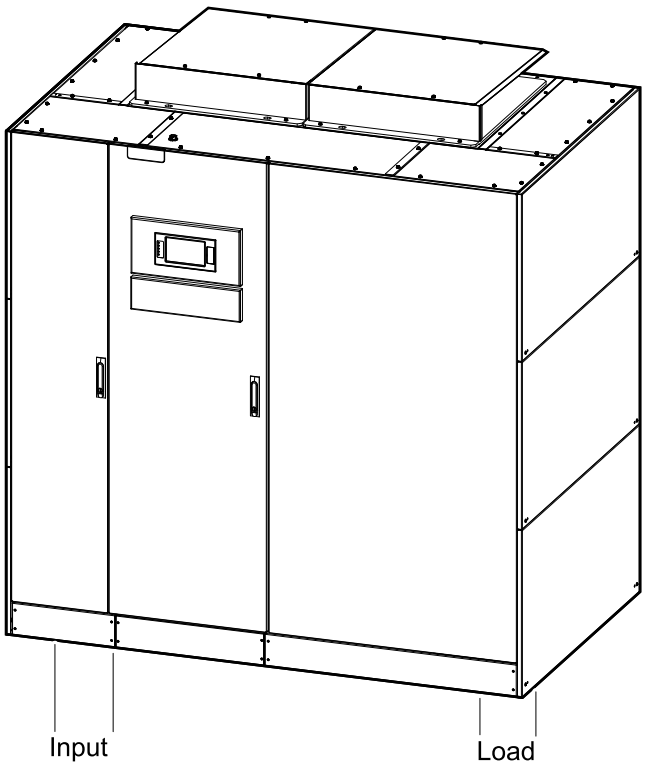
Cable size	Bolt size	Cable lug type (two hole NEMA)	Crimping tool	Die
500 kcmil	M10x35mm	LAB500-12-2R	CT-930	CD-920–500 Blue P87

Conduit Area

Top Cable Entry System



Bottom Cable Entry System



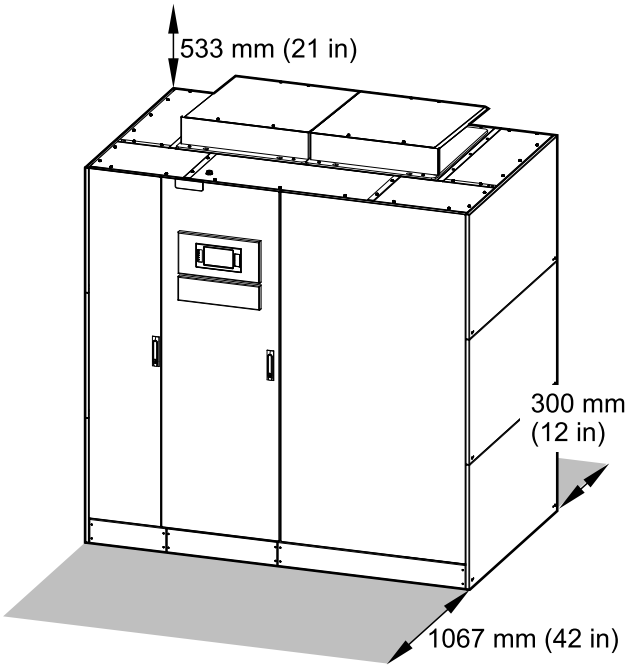
Cable entry system	Conduit area mm (in)
Top cable entry for input (two gland plates)	320 x 350 (12 X 13.5) 150 x 680 (6 x 26)
Top cable entry for load (two gland plates)	320 x 350 (12 X 13.5) 150 x 680 (6 x 26)
Bottom cable entry for input (two gland plates)	320 x 350 (12 X 13.5) 150 x 680 (6 x 26)
Bottom cable entry for load (two gland plates)	320 x 350 (12 X 13.5) 150 x 680 (6 x 26)

Clearance

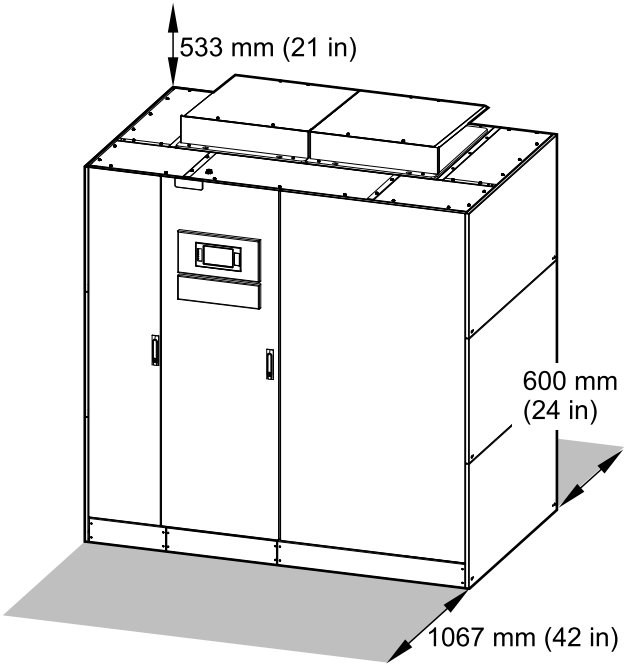
NOTE: Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.

NOTE: 600 mm (24 in) rear clearance is required for non-routine transformer service such as transformer tap changes.

Minimum Required Clearance for Installation and Operation of the PDU



Minimum Recommended Clearance for Service of the PDU



Weights and Dimensions

Commercial reference	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
PMM1000-CUB	4650 (10251)	2200 (86.6)	2095 (82.7)	1295 (51.2)

Environment

	Operating	Storage
Temperature	-10 °C to 40 °C (14 °F to 104 °F)	-25 °C to 55 °C (-13 °F to 131 °F)
Relative humidity	10 to 70% non-condensing	10 to 80% non-condensing
Elevation	0 m to 2011 m (0 feet to 6600 feet) above sea level	0-10000 m (0-32000 ft)
Audible noise one meter (three feet) from unit	As per NEMA ST20	
Protection class	NEMA type 1, external doors with inner dead front panels	
Cooling	Front, rear, and roof ventilation	
Color	APC raven black	
Accessibility	Front access for: • Display • Fuse panel • Communication and monitoring • Adding/replacing branch circuit breakers	

Heat Dissipation

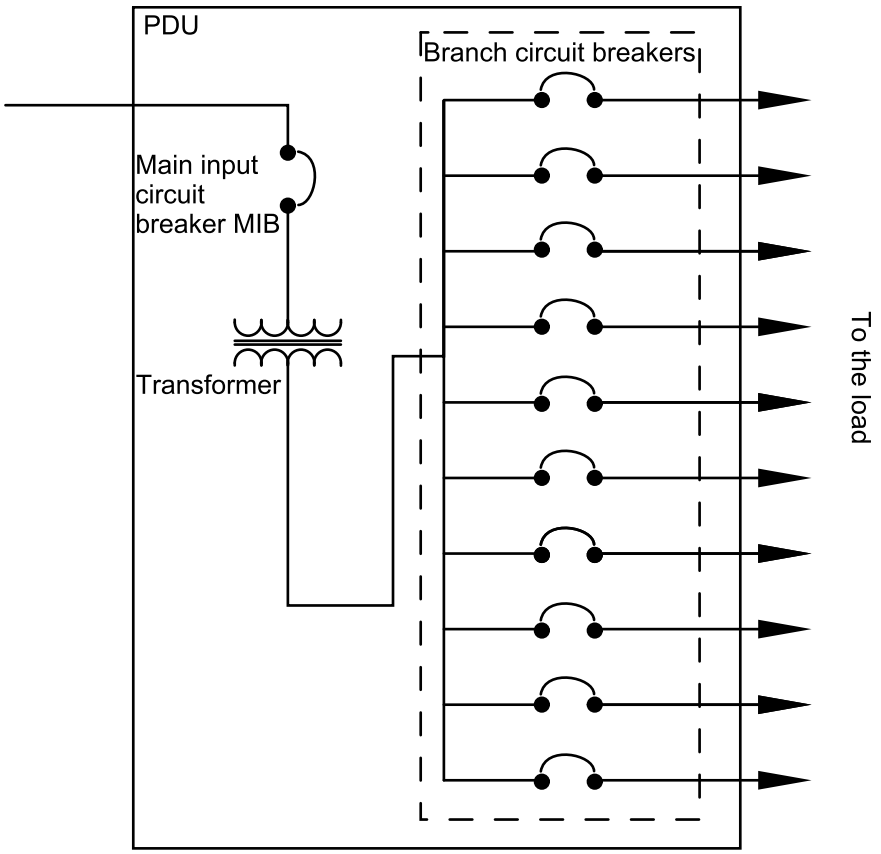
Heat dissipation in BTU/hr	44445

Compliance

Safety	UL 891, SWITCHBOARDS, Edition 12, Issue Date 07/19/2019 CSA C22.2 No. 244, Switchboards, Edition 2, Issue Date 07/2019 UL 62368-1, Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, Edition 3, Revision Date 10/22/2021 CSA C22.2 No. 62368-1:19, Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, Edition 3, Revision Date 10/22/2021
Marking	cULus
Performance	Transformer DOE2016

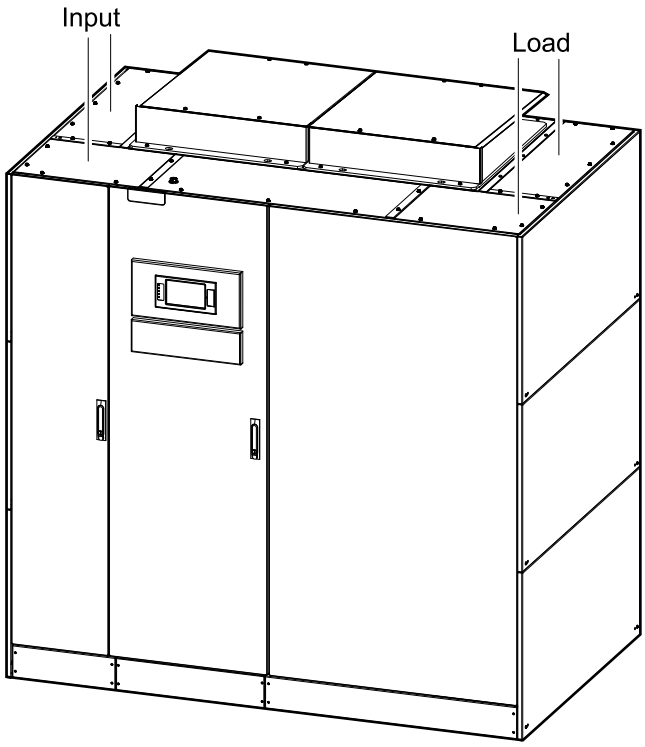
One Line Diagrams

PDU with Main Input Circuit Breaker MIB

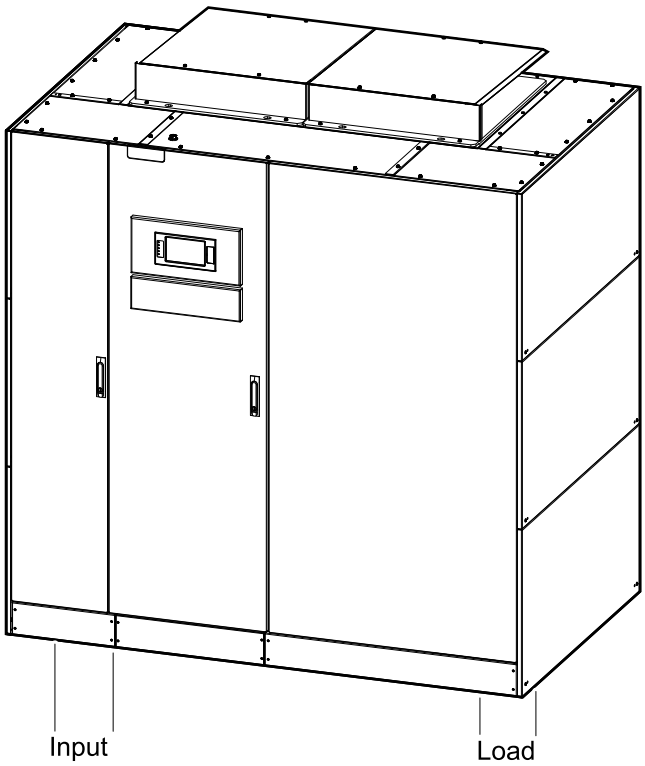


Installation Procedure

Top Cable Entry System



Bottom Cable Entry System



1. Perform one of the following:
   - PDU (no floor anchoring): Position the PDU, page 16, or
   - PDU with requirement for floor anchoring: Position the PDU and Anchor the PDU to the Floor, page 19.
2. Prepare the PDU for Cables, page 23.
3. Install the Input Cables, page 26.
4. Connect the Load to the Branch Circuit Breakers, page 27.
5. Connect the Ethernet/Modbus Cables, page 28.
6. Final Installation, page 30.

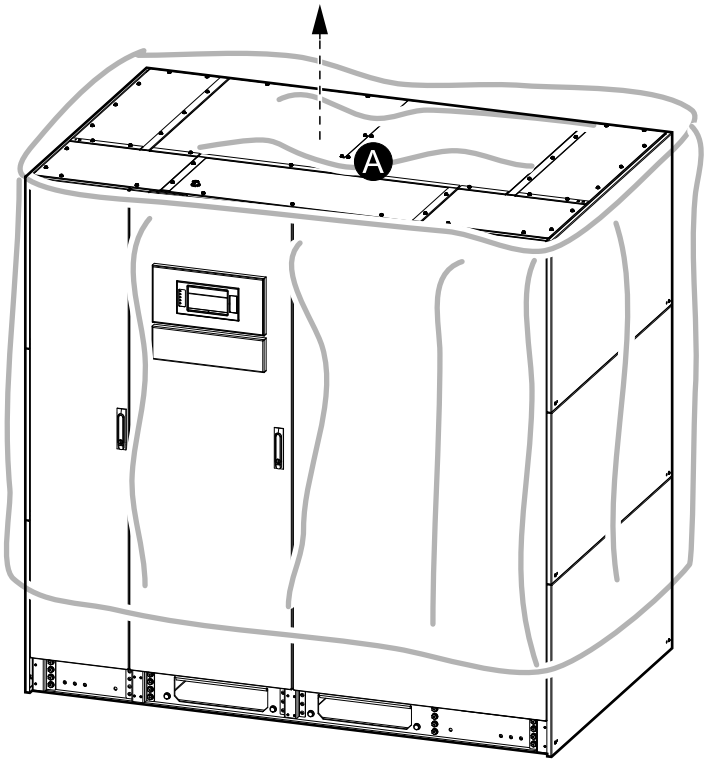
For moving or decommissioning the PDU after installation has been completed, see Decommission or Move the PDU to a New Location, page 33.

Position the PDU

Installing kick plates and positioning the PDU could also be done during unpacking of the PDU.

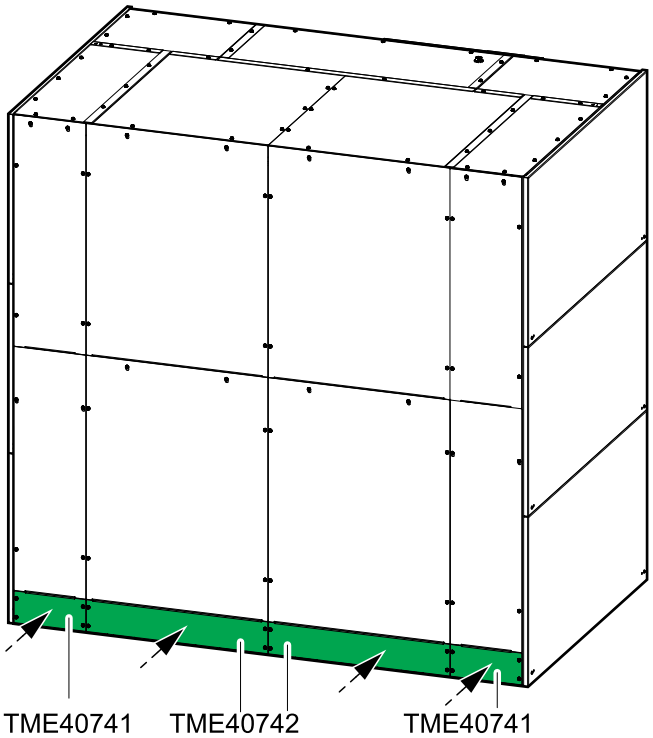
1. Remove the protective packaging bag (A) from the PDU.

Front View of the PDU



2. Install the four rear kick plates (2 x TME40741 and 2 x TME40742) on the PDU. Use four screws (provided) to each kick plate.

Rear View of the PDU



3. Lift the PDU to the final installation location using a forklift with the required specifications:

⚠WARNING

HEAVY LOAD

The product is large and heavy: 4650 kg (10251 lbs). Only lift and move the product using a forklift with the following required specifications:

- Forklift load capacity: > 5000 kg (11023 lbs)
- Forklift fork length: > 1400 mm (55.11 in)
- Forklift fork width (for lifting PDU) : > 1000 mm (39.37 in)

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

a. Insert the forks in the openings on the front of the PDU. Place the forks as far to the sides as possible as shown.

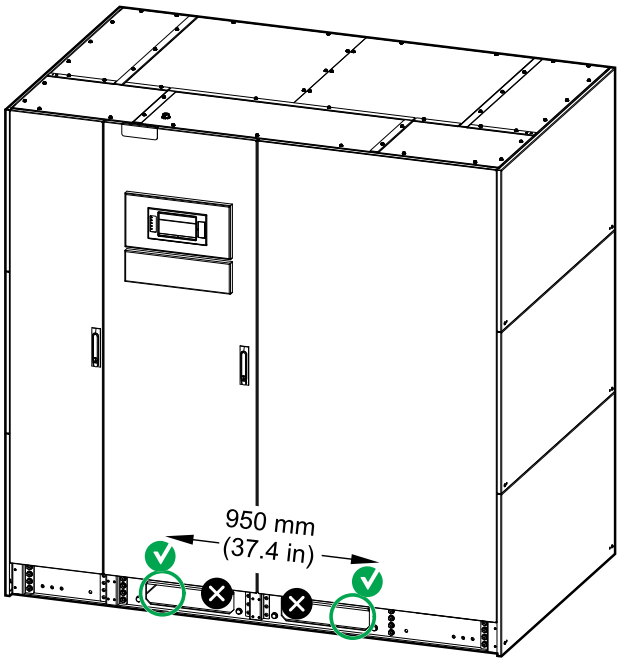
NOTICE

RISK OF EQUIPMENT DAMAGE

The forks of the forklift cannot be inserted completely into the PDU when the rear kick plates are installed.

Failure to follow these instructions can result in equipment damage.

Front View of the PDU



b. Lift the PDU slowly off of the floor. Pay close attention to the balance of the PDU while lifting. Keep a safety distance of 100-130 mm (4-5 in) between the product and the forklift to avoid damaging the product during lifting.

c. Lower the forks slowly when placing the PDU on the floor.

⚠WARNING

TIPPING HAZARD

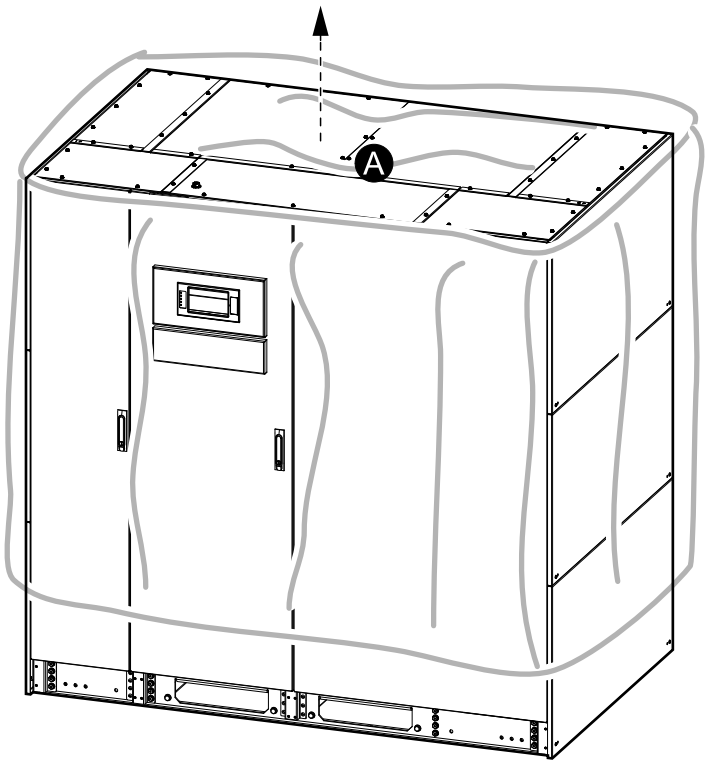
- Insert the forks as instructed.
- Lift and lower the PDU slowly.
- Pay close attention to the balance of the PDU while lifting.

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

Position the PDU and Anchor the PDU to the Floor

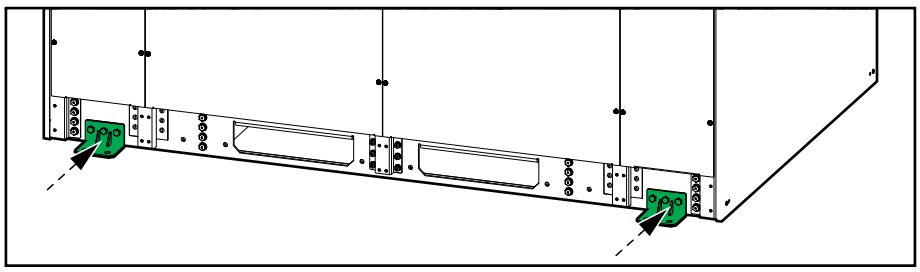
1. Remove the protective packaging bag (A) from the PDU.

Front View of the PDU



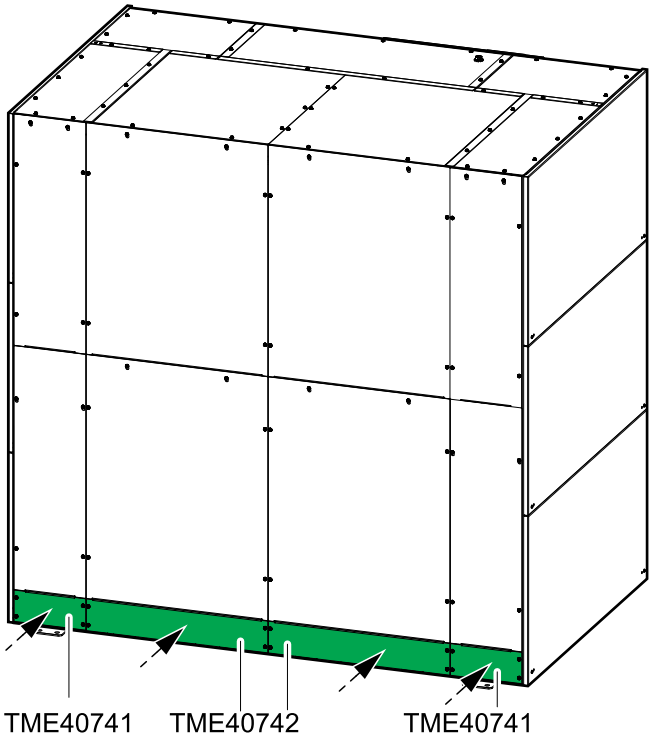
2. Install the two rear anchoring brackets on the rear of the PDU. The rear anchoring brackets were removed during unpacking of the PDU.

Rear View of the PDU



3. Install the four rear kick plates (2 x TME40741 and 2 x TME40742) on the PDU. Use four screws (provided) to each kick plate.

Rear View of the PDU



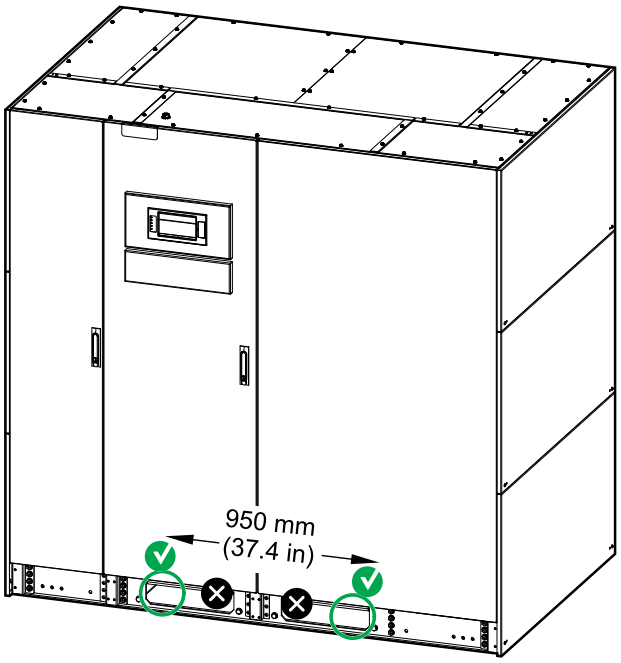
4. Lift the PDU to the final installation location using a forklift with the required specifications:

> **⚠ WARNING**
>
> **HEAVY LOAD**
>
> The product is large and heavy: 4650 kg (10251 lbs). Only lift and move the product using a forklift with the following required specifications:
>
> - Forklift load capacity: > 5000 kg (11023 lbs)
> - Forklift fork length: > 1400 mm (55.11 in)
> - Forklift fork width (for lifting PDU) : > 1000 mm (39.37 in)
>
> **Failure to follow these instructions can result in death, serious injury, or equipment damage.**

a. Insert the forks in the openings on the front of the PDU. Place the forks as far to the sides as possible as shown.

> ***NOTICE***
>
> **RISK OF EQUIPMENT DAMAGE**
>
> The forks of the forklift cannot be inserted completely into the PDU when the rear kick plates are installed.
>
> **Failure to follow these instructions can result in equipment damage.**

Front View of the PDU



b. Lift the PDU slowly off of the floor. Pay close attention to the balance of the PDU while lifting. Keep a safety distance of 100-130 mm (4-5 in) between the product and the forklift to avoid damaging the product during lifting.

c. Lower the forks slowly when placing the PDU on the floor.

⚠WARNING

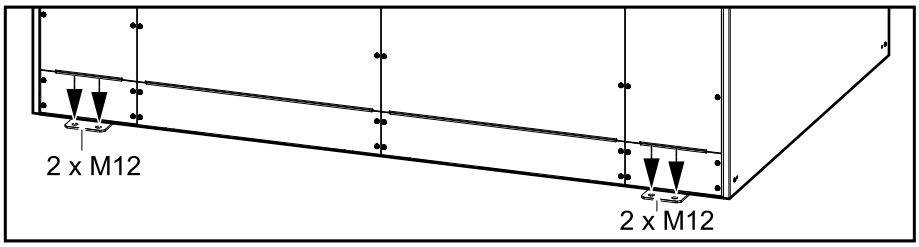
TIPPING HAZARD

- Insert the forks as instructed.
- Lift and lower the PDU slowly.
- Pay close attention to the balance of the PDU while lifting.

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

5. Mount the rear anchoring brackets to the floor. Use appropriate hardware for the floor type – the hole diameter in the brackets is ø14 mm. Minimum requirement is M12 strength grade 8.8 hardware.

Rear View of the PDU

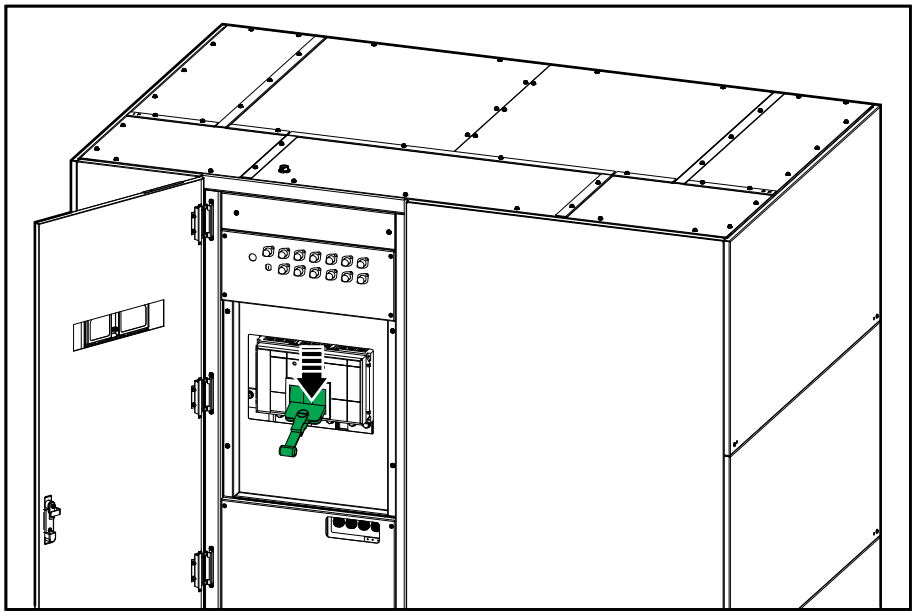


Prepare the PDU for Cables

NOTE: Unlock the front doors with the provided key and keep the key in a safe location during the installation.

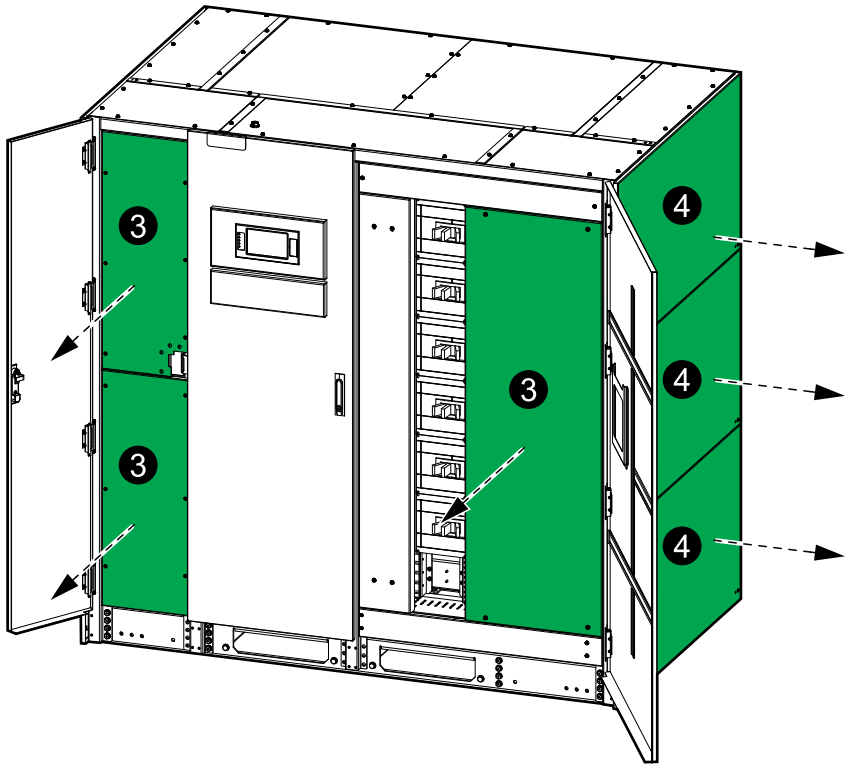
1. Open the middle front door and Lockout/Tagout the main input switch MIS/ main input circuit breaker MIB in the OFF (open) position. Close the middle front door.

Front View of the PDU



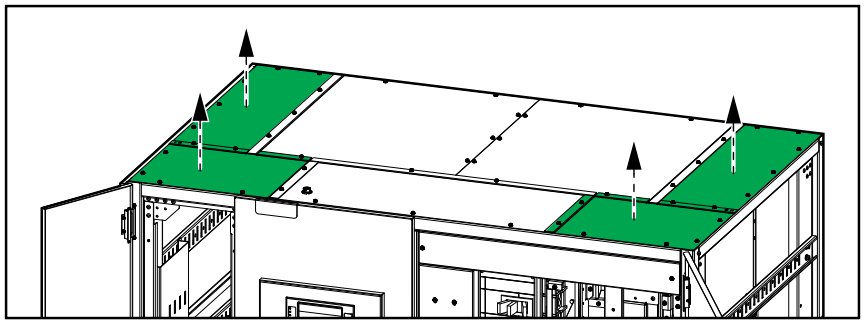
2. Open the left and right front doors.
3. Remove the three front plates. Store the three front plates safely until reinstallation.

Front View of the PDU



4. **Optional**: If you have free space to the right of the PDU, you can remove the three side plates for better access. Store the three side plates safely until reinstallation.
5. **For top cable entry**:
   a. Remove the four top gland plates.

      Front View of the PDU

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

      ⚠⚠DANGER

      HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

      - Do not drill or punch holes for cables or conduits with the gland plates installed and do not drill or punch holes in close proximity to the PDU.
      - Ensure that the holes do not have sharp edges that can damage the cables.

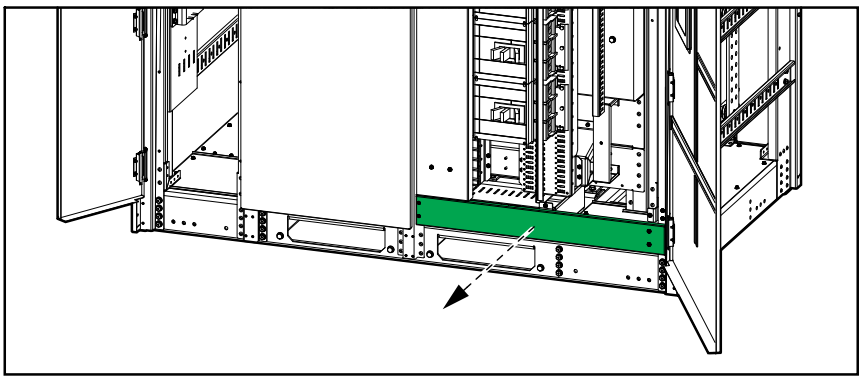
      Failure to follow these instructions will result in death or serious injury.

   c. Reinstall the four top gland plates.

6. **For bottom cable entry**:

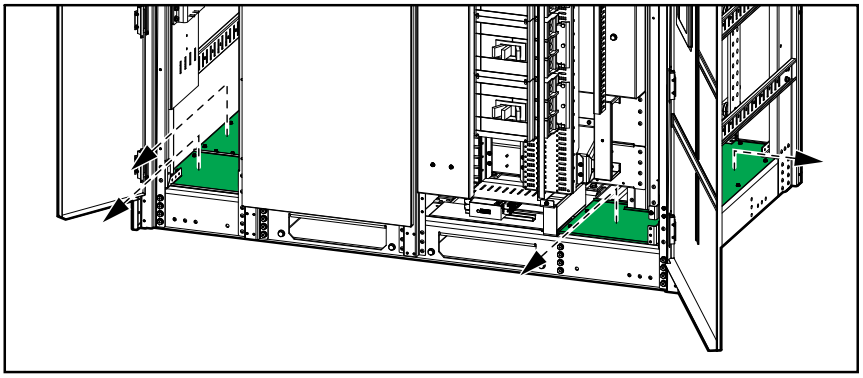
   a. Remove the small front plate.

   Front View of the PDU

   b. Remove the four bottom gland plates.

   Front View of the PDU

   c. Drill/punch holes for power cables/conduits in the gland plates. Conduits are not provided.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Do not drill or punch holes for cables or conduits with the gland plates installed and do not drill or punch holes in close proximity to the PDU.
- Ensure that the holes do not have sharp edges that can damage the cables.

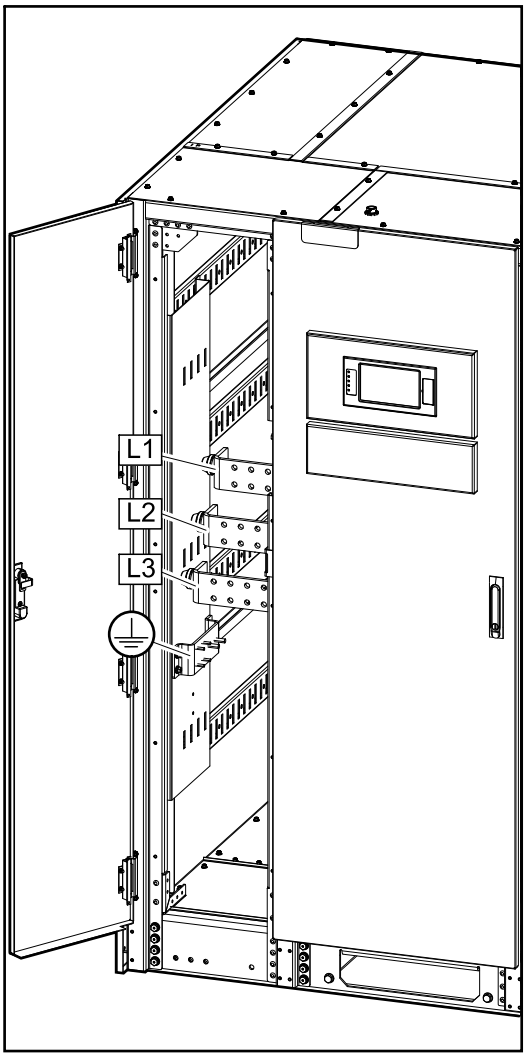
Failure to follow these instructions will result in death or serious injury.

   d. Reinstall the four bottom gland plates.

Install the Input Cables

1. Route the equipment grounding conductor through the top or bottom left side of the PDU and connect to the grounding busbar.
2. Route the input cables through the top or bottom left side of the PDU and connect to the input busbars (L1, L2, L3).

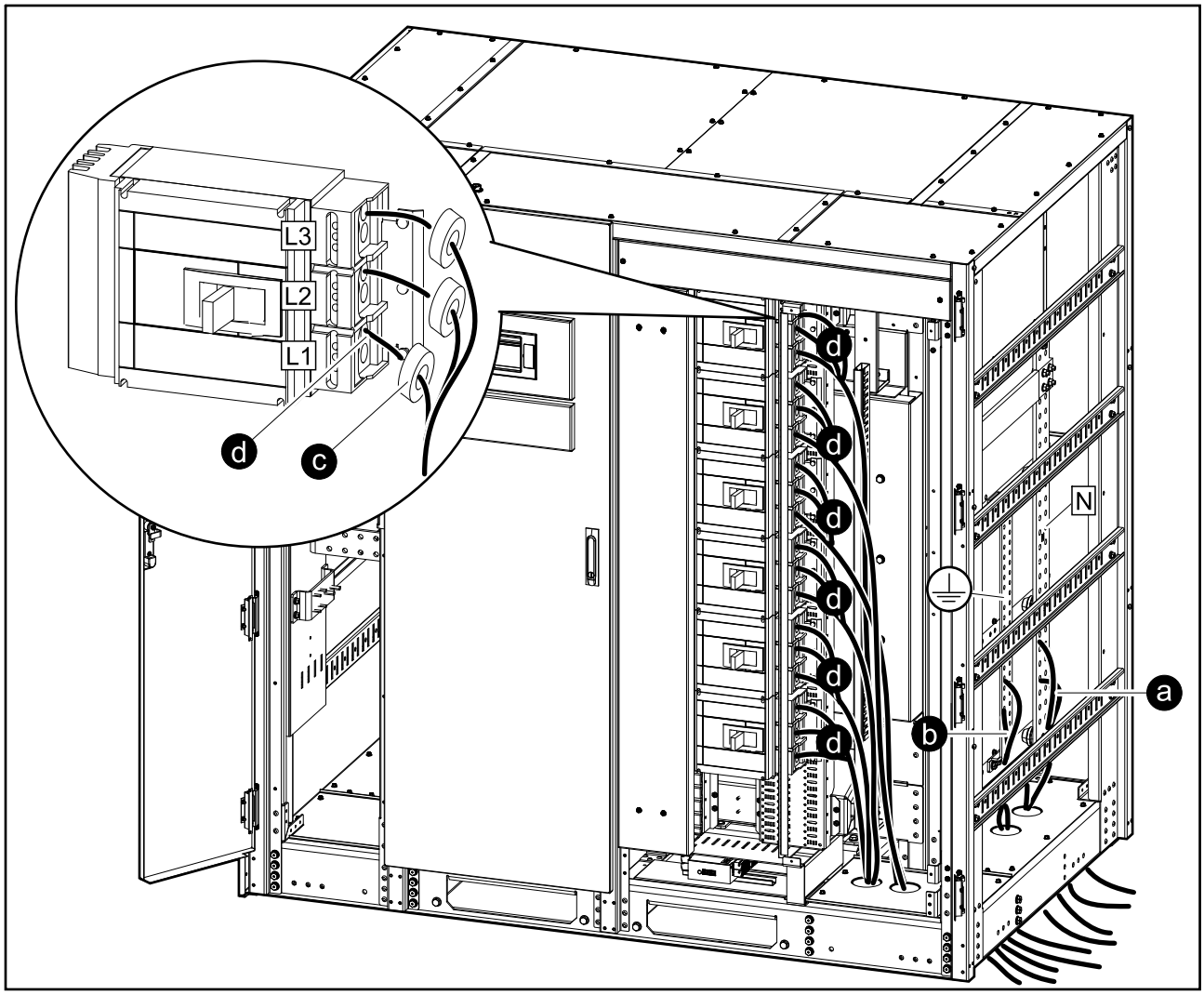
Front View of the PDU



Connect the Load to the Branch Circuit Breakers

1. Route the load cables from the load through the top or bottom right side of the PDU. Bottom cable entry is shown in illustration.
2. For each load cable set:
   a. Connect the N cable to the N busbar.
   b. Connect the ground cable to the grounding busbar.
   c. Route the phase cables (L1, L2, L3) through the provided current transformers for the branch circuit breaker. Check that the direction of the phase cables matches the labels on the current transformers. The signal cables for the current transformers are preinstalled by the factory.
   d. Connect the phase cables (L1, L2, L3) to the branch circuit breaker.

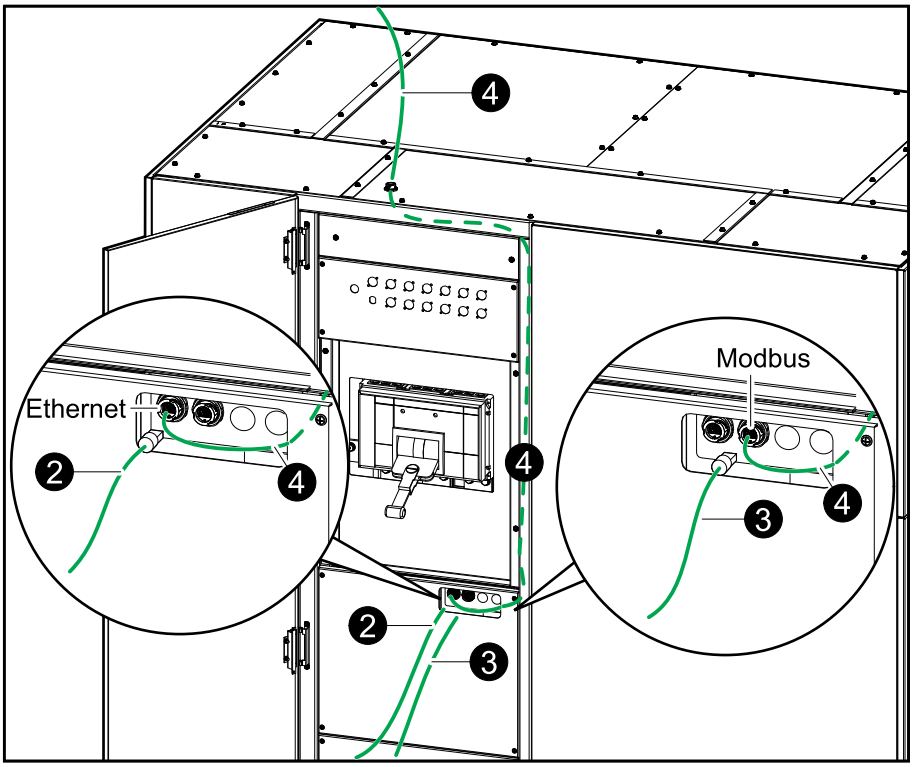
Front View of the PDU



Connect the Ethernet/Modbus Cables

NOTE: Wiring must be done in accordance with local wiring codes. Route signal cables separately from power cables to reduce noise.

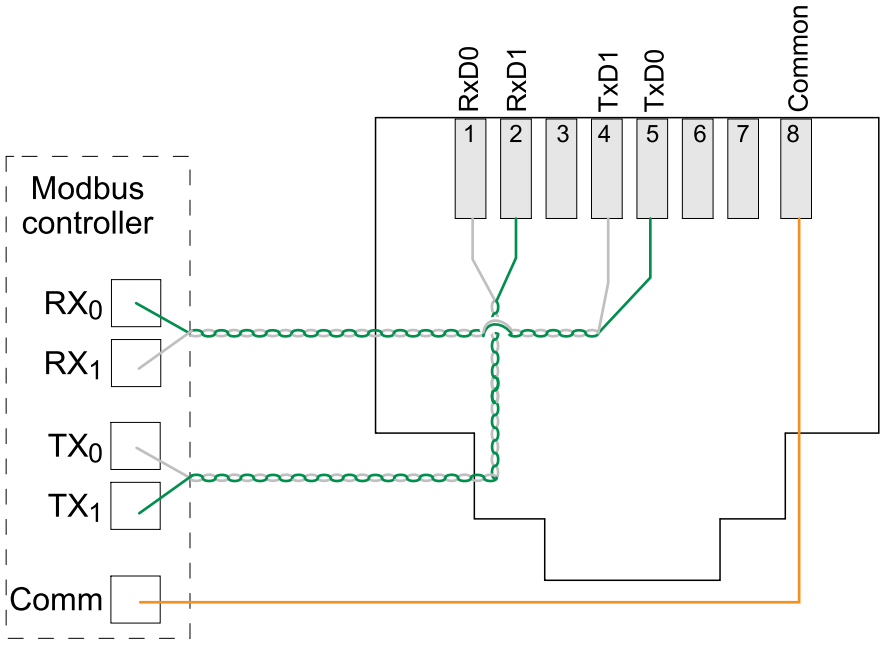
Front View of the PDU



1. Open the middle front door.
2. **When a temporary Ethernet connection is needed**: Connect an Ethernet cable with RJ45 plug to the Ethernet port. This is a temporary connection which requires that the middle front door is open.

3. **When a temporary Modbus connection is needed**: Connect the Modbus cable with RJ45 plug to the Modbus port on the PDU. This is a temporary connection which requires that the middle front door is open.
   - 2-wire or 4-wire shielded twisted pair cables must be used for Modbus connections. Use a cable for Modbus serial link (RJ45 to RJ45 or RJ45 to free wires depending on the Modbus controller characteristics).
   - The Modbus port is optically isolated. The Modbus port's ground is not connected to any other ground.
   - Install 150 Ohm termination resistors at each end of each bus if the buses are very long and operate at high data rates. Busses under 610 meters (2000 feet) at 9600 baud or under 305 meters (1000 feet) at 19.200 baud should not require termination resistors.
   - Install 400-650 Ohm bias resistors at or inside the system controller: One from D0 to ground and one from D1 to +5 VDC.

   Example: Modbus 4-Wire on RJ45 Connector



   If more than one PDU must be connected to the Modbus controller, use an RJ45 Modbus hub or splitter block.

4. **When a permanent Ethernet/Modbus connection is needed**: Perform one of the following:
   – Connect the Ethernet cable with RJ45 plug to the extension port on top of the PDU. By default the extension cable is connected to the Ethernet port.
   OR
   – Connect the Modbus cable with RJ45 plug to the extension port on top of the PDU. By default the extension cable is connected to the Ethernet port – move the extension cable to the Modbus port.

Final Installation

⚠⚠DANGER

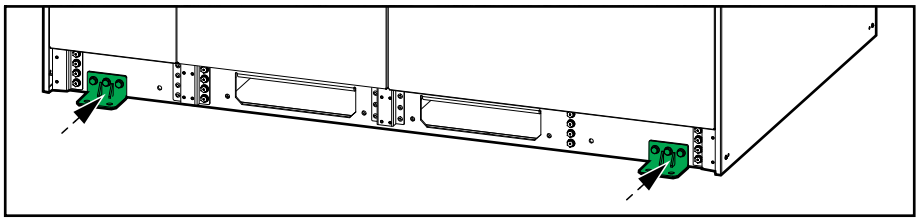
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All panels and covers must be properly reinstalled prior to energizing the PDU.

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

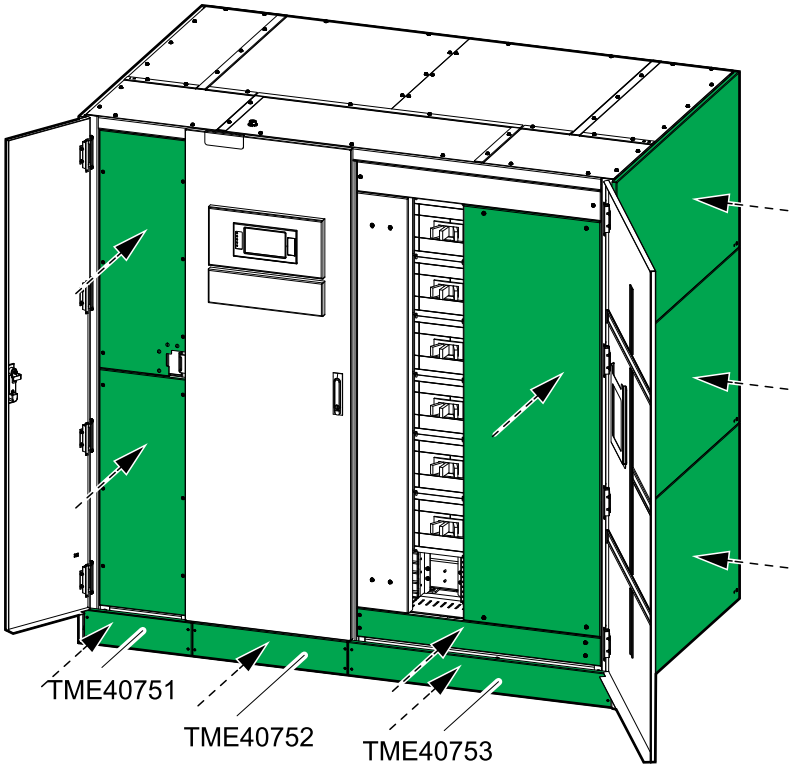
1. Clean/vacuum the PDU of any debris and foreign objects.
2. Install the front anchoring brackets on the PDU. The front anchoring brackets were removed during unpacking of the PDU.

Front View of the PDU



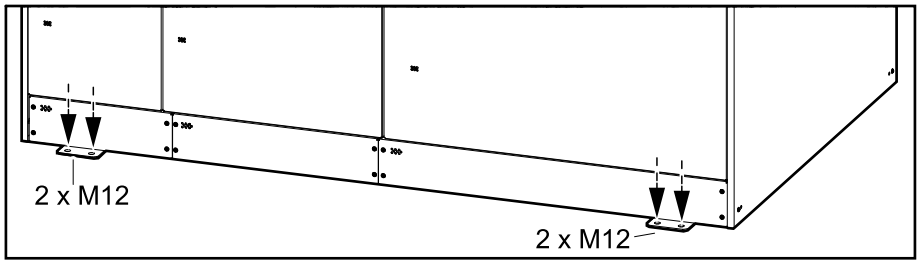
3. Reinstall the three front plates on the PDU.
4. If removed, reinstall the small front plate.
5. If removed, reinstall the three side plates on the PDU.
6. Install the provided kick plates (TME40751, TME40752, TME40753) on the front of the PDU. Use four screws (provided) for each kick plate.

Front View of the PDU



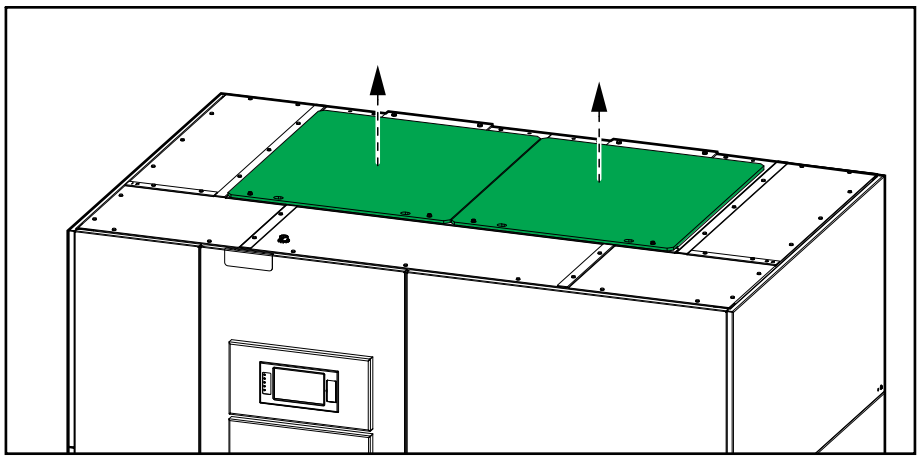
7. Mount the front anchoring brackets to the floor. Use appropriate hardware for the floor type – the hole diameter in the bracket is ø14 mm. Minimum requirement is M12 strength grade 8.8 hardware.

Front View of the PDU



8. Remove the two wooden plates from the top of the PDU.

Front View of the PDU

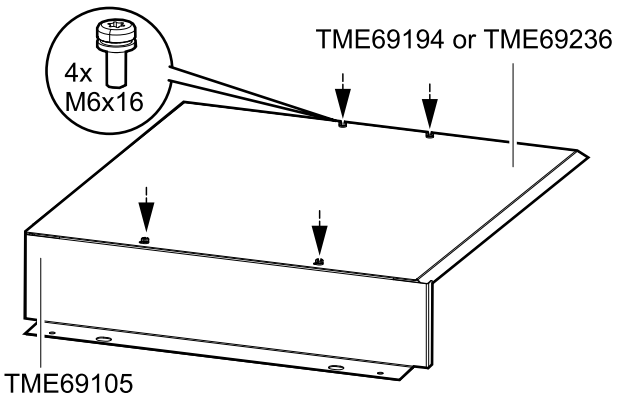


9. Install the two roof assemblies:

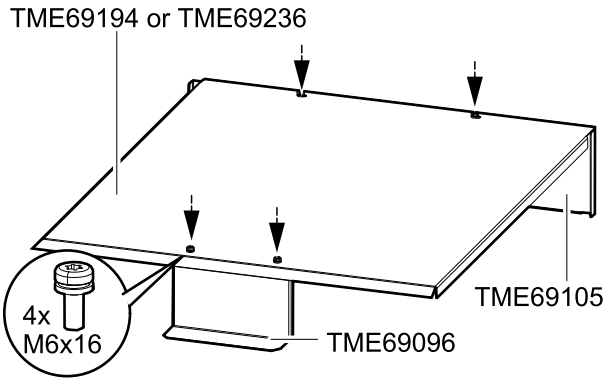
   a. Roof assembly 1: Assemble the parts 1x TME69096, 1x TME69194, and 1x TME69105 with the four provided M6x16 screws as shown.

   b. Roof assembly 2 : Assemble the parts 1x TME69096, 1x TME69236, and 1x TME69105 with the four provided M6x16 screws as shown.

Front View of Roof Assembly

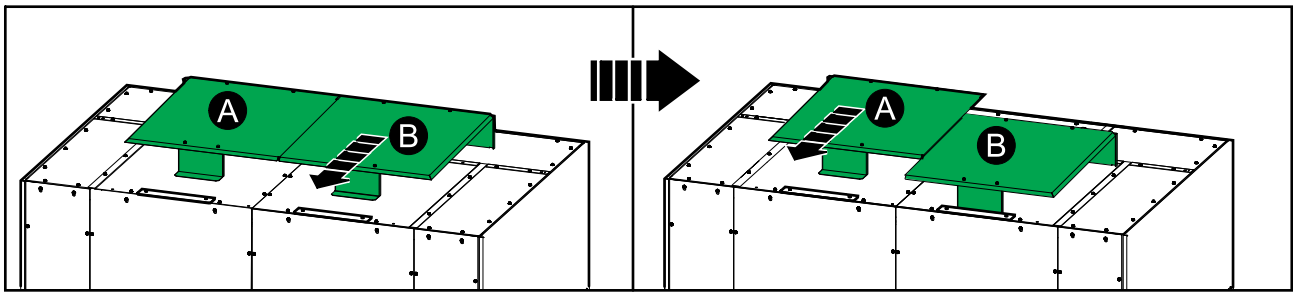


Rear View of Roof Assembly



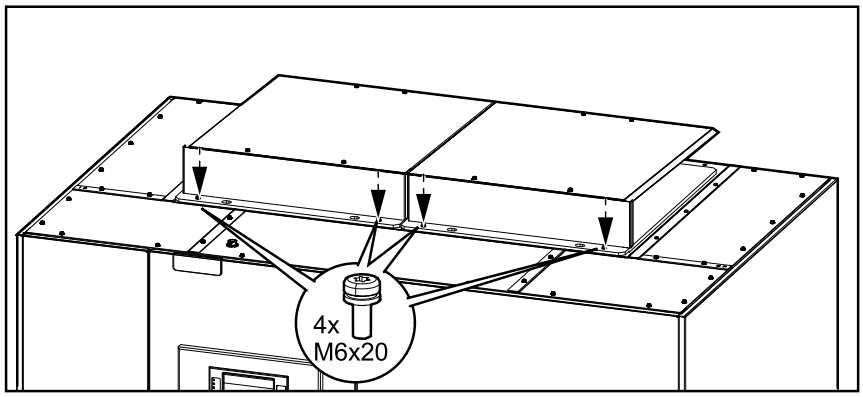
   c. Place roof assembly 1 (marked (A) in the illustration) and roof assembly 2 (marked (B) in the illustration) on top of the PDU and slide them one by one into the slots in the rear brackets.

Rear View of the PDU



   d. Fasten the roof assemblies to the top of the PDU with the four provided M6x20 bolts with washers.

Front View of the PDU



10. Close the front doors and lock with the provided key. Store the key in a safe location where only authorized personnel have access.

Decommission or Move the PDU to a New Location

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.

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

1. Shut down the loads that the PDU is supplying.
2. Shut down the PDU completely – follow the instructions in the operation manual.
3. Lockout/Tagout the upstream input circuit breakers in the OFF (open) position.
4. Lockout/Tagout the main input circuit breaker MIB/main input switch MIS in the OFF (open) position and remove the front plates and the side plates as described in Prepare the PDU for Cables, page 23.

5. Measure for and verify ABSENCE of voltage on each input terminal before continuing.

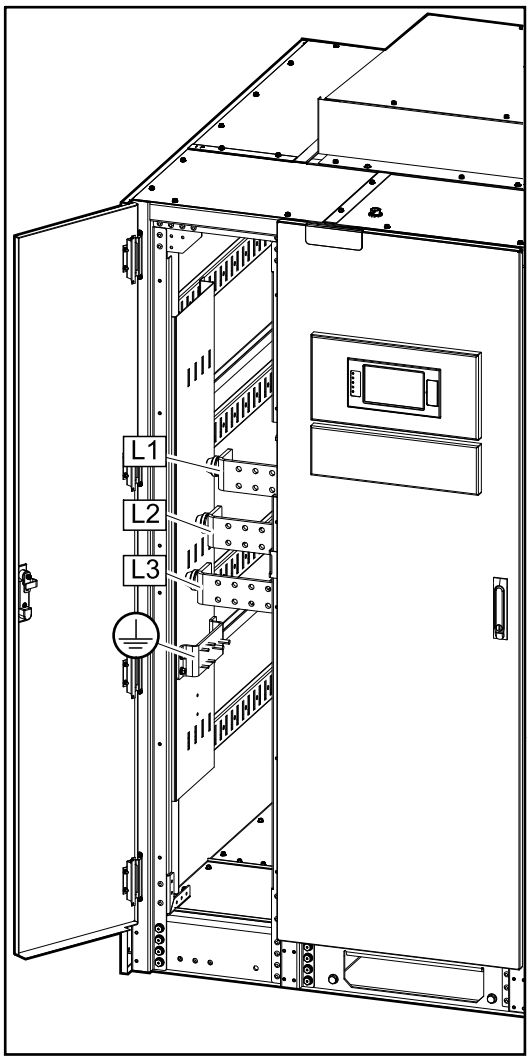
⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Measure for and verify ABSENCE of voltage on each input terminal before continuing.

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

Front View of the PDU



6. Disconnect and remove all input cables from the PDU. See Install the Input Cables, page 26 for details.
7. Disconnect and remove all load cables from the PDU. See Connect the Load to the Branch Circuit Breakers, page 27 for details.
8. If present, disconnect and remove the Modbus/Ethernet cable from the top of the PDU. See Connect the Ethernet/Modbus Cables, page 28 for details.
9. Reinstall the removed plates and covers.
10. Close and lock the front doors.
11. Remove the kick plates from the front of the PDU. Save the kickplates for reinstallation.

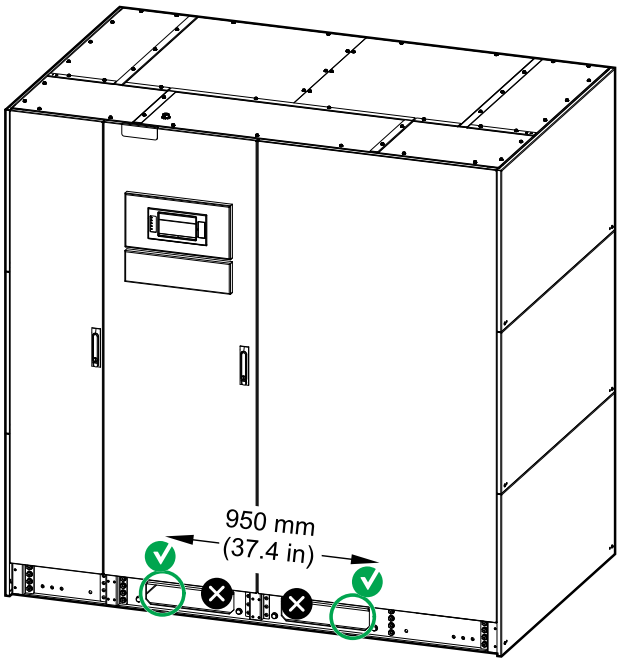
12. Remove the roof assemblies from the top of the PDU. Save the roof assembly for reinstallation.
13. If present, remove the front and rear anchoring bracket hardware from the floor. Remove the front anchoring brackets from the PDU. Save the front anchoring brackets for reinstallation.
14. **For transportation over short distances (inside the same building)**: Lift the PDU using a forklift with the required specifications:

> **⚠ WARNING**
>
> **HEAVY LOAD**
>
> The product is large and heavy: 4650 kg (10251 lbs). Only lift and move the product using a forklift with the following required specifications:
>
> - Forklift load capacity: > 5000 kg (11023 lbs)
> - Forklift fork length: > 1400 mm (55.11 in)
> - Forklift fork width (for lifting PDU) : > 1000 mm (39.37 in)
>
> **Failure to follow these instructions can result in death, serious injury, or equipment damage.**

a. Insert the forks in the openings on the front of the PDU. Place the forks as far to the sides as possible as shown.

> ***NOTICE***
>
> **RISK OF EQUIPMENT DAMAGE**
>
> The forks of the forklift cannot be inserted completely into the PDU when the rear kick plates are installed.
>
> **Failure to follow these instructions can result in equipment damage.**

Front View of the PDU



b. Lift the PDU slowly off of the floor. Pay close attention to the balance of the PDU while lifting. Keep a safety distance of 100-130 mm (4-5 in) between the product and the forklift to avoid damaging the product during lifting.

c. Lower the forks slowly when placing the PDU on the floor.

⚠WARNING

TIPPING HAZARD

- Insert the forks as instructed.
- Lift and lower the PDU slowly.
- Pay close attention to the balance of the PDU while lifting.

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

15. Remove the kick plates from the rear of the PDU. Save the kickplates for reinstallation.
16. If present, remove the rear anchoring brackets. Save the rear anchoring brackets for reinstallation.
17. You can now move the PDU for short distances using the forklift as instructed earlier in this procedure.
18. **For transport over longer distances**:

⚠WARNING

HEAVY LOAD

The product is large and heavy : 4800 kg (10582 lbs). Only lift and move the product using a forklift with the following required specifications:

- Forklift load capacity: > 5000 kg (11023 lbs)
- Forklift fork length: > 1400 mm (55.11 in)
- Forklift fork width (for lifting pallet): > 1800 mm (70.87 in)

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

⚠WARNING

TIPPING HAZARD

For transport over longer distances, ensure:

- that personnel performing the transport have necessary skill and have received adequate training;
- to use appropriate tools to safely lift and transport the PDU;
- 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 PDU in a vertical position in the center of a suitable pallet with minimum dimensions: 2360 x 1550 mm (93 in x 61 in). The pallet must be suitable for the weight of the PDU. The PDU weighs 4650 kg (10251 lbs).
- Use appropriate means of fixation to mount the PDU 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 PDU 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.

19. Perform one of the following:
    – Decommission the PDU, OR
    – Move the PDU to a new location to install it.
20. **Only for installing the PDU in a new location**: Follow the installation manual to install the PDU in the new location. See Installation Procedure, page 15 for installation overview.
21.

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Start-up 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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