

Easy UPS 3M

IP30, IPX2 and IP40 Kits for UPS

Installation

E3MOPT008, E3MOPT009, E3MOPT010, E3MOPT011, E3MOPT013, E3MOPT014,
E3MOPT015, E3MOPT016, E3MOPT017, E3MOPT018, E3MOPT019, E3MOPT020

Latest updates are available on the Schneider Electric website
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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.

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. If additional construction work is needed in the installation room after the UPS has been installed, turn off the UPS and cover the UPS with the protective packaging bag the UPS was delivered in.

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

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 UPS system and do not cover the UPS ventilation openings when the UPS system 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 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 utility/mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that utility/mains and batteries are disconnected. Wait five minutes before opening the UPS to allow the capacitors to discharge.
- 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 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.

Specifications

Model List

- Easy UPS 3M IP30 Kit for 60 to 80 kVA 400 V UPS with internal batteries (E3MOPT008)
- Easy UPS 3M IP30 Kit for 60 to 100 kVA 400 V UPS for external batteries (E3MOPT009)
- Easy UPS 3M IP30 Kit for 120 to 160 kVA 400 V UPS for external batteries (E3MOPT010)
- Easy UPS 3M IP30 Kit for 200 kVA 400 V UPS for external batteries (E3MOPT011)
- Easy UPS 3M IPX2 Kit for 60 to 80 kVA 400 V UPS with internal batteries (E3MOPT013)
- Easy UPS 3M IPX2 Kit for 60 to 100 kVA 400 V UPS for external batteries (E3MOPT014)
- Easy UPS 3M IPX2 Kit for 120 to 160 kVA 400 V UPS for external batteries (E3MOPT015)
- Easy UPS 3M IPX2 Kit for 200 kVA 400 V UPS for external batteries (E3MOPT016)
- Easy UPS 3M IP40 Kit for 60 to 80 kVA 400 V UPS with internal batteries (E3MOPT017)
- Easy UPS 3M IP40 Kit for 60 to 100 kVA 400 V UPS for external batteries (E3MOPT018)
- Easy UPS 3M IP40 Kit for 120 to 160 kVA 400 V UPS for external batteries (E3MOPT019)
- Easy UPS 3M IP40 Kit for 200 kVA 400 V UPS for external batteries (E3MOPT020)

IP Capacity with IP Kit Installed

- Easy UPS 3M 60 to 80 kVA 400 V UPS with internal batteries

Kit installed	IP protection level
UPS with E3MOPT013	IP22
UPS with E3MOPT008	IP30
UPS with E3MOPT008 + E3MOPT013	IP32
UPS with E3MOPT017	IP40
UPS with E3MOPT017 + E3MOPT013	IP42

- Easy UPS 3M 60 to 100 kVA 400 V UPS for external batteries

Kit installed	IP protection level
UPS with E3MOPT014	IP22
UPS with E3MOPT009	IP30
UPS with E3MOPT009 + E3MOPT014	IP32
UPS with E3MOPT018	IP40
UPS with E3MOPT018 + E3MOPT014	IP42

- Easy UPS 3M 120 to 160 kVA 400 V UPS for external batteries

Kit installed	IP protection level
UPS with E3MOPT015	IP22
UPS with E3MOPT010	IP30
UPS with E3MOPT010 + E3MOPT015	IP32
UPS with E3MOPT019	IP40
UPS with E3MOPT019 + E3MOPT015	IP42

- Easy UPS 3M 200 kVA 400 V UPS for external batteries

Kit installed	IP protection level
UPS with E3MOPT016	IP22
UPS with E3MOPT011	IP30
UPS with E3MOPT011 + E3MOPT016	IP32
UPS with E3MOPT020	IP40
UPS with E3MOPT020 + E3MOPT016	IP42

Torque Specifications

Bolt size	Torque
M3	1.5 Nm
M4	2.5 Nm
M5	5.0 Nm
M6	5.0 Nm

Load Derating for UPS with IP30 Kit Installed

NOTICE

RISK OF OVERHEATING

- UPS with IP30 kit may have load deratings/temperature deratings.

Failure to follow these instructions can result in equipment damage.

UPS rating	Maximum continuous load at 30 °C at power factor = 1	Maximum continuous load at 35 °C at power factor = 1	Maximum continuous load at 40 °C at power factor = 1
60 kVA	60 kVA	55.5 kVA	51 kVA
80 kVA	80 kVA	74 kVA	68 kVA
100 kVA	100 kVA	92.5 kVA	85 kVA
120 kVA	120 kVA	111 kVA	102 kVA
160 kVA	160 kVA	148 kVA	136 kVA
200 kVA	200 kVA	185 kVA	170 kVA

Load Derating for UPS with IP40 Kit Installed

NOTICE

RISK OF OVERHEATING

- UPS with IP40 kit may have load deratings/temperature deratings.

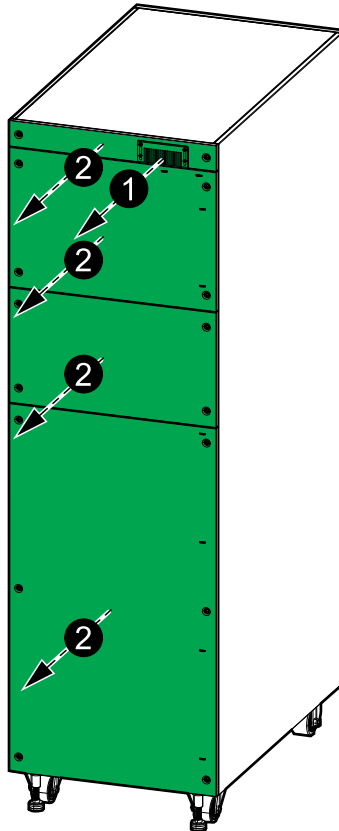
Failure to follow these instructions can result in equipment damage.

UPS rating	Maximum continuous load at 30 °C at power factor = 1	Maximum continuous load at 40 °C at power factor = 1
60 kVA	48 kVA	45 kVA
80 kVA	64 kVA	60 kVA
100 kVA	80 kVA	75 kVA
120 kVA	96 kVA	90 kVA
160 kVA	128 kVA	120 kVA
200 kVA	160 kVA	150 kVA

Install the IP30 Kit (E3MOPT008) on a 60-80 kVA 400 V UPS with internal batteries

1. Remove the rear gland plate and the rear brush plate from the UPS. Save the brush plate for reinstallation.

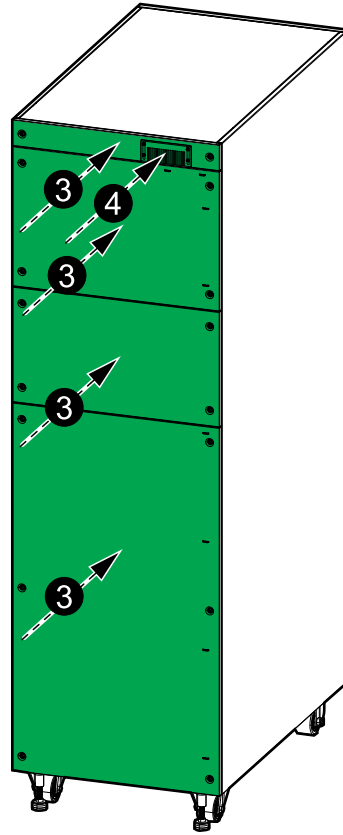
Rear View of the UPS



2. Remove the four rear plates. Discard the plates and save the screws.

3. Install the four IP30 rear plates provided with the IP30 kit on the UPS. Reuse the screws from step 2. Alternatively, the two lowest IP30 rear plates can be installed after the power cables have been connected.

Rear View of the UPS

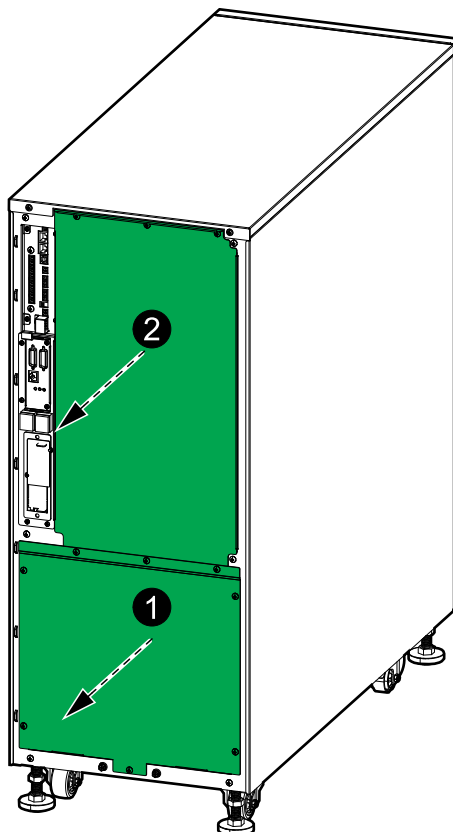


4. Reinstall the rear brush plate and the rear gland plate.
5. Follow the UPS installation manual to install the UPS.

Install the IP30 Kit (E3MOPT009) on a 60-100 kVA 400 V UPS for external batteries

1. Remove the lower rear plate from the UPS. Save for reinstallation.

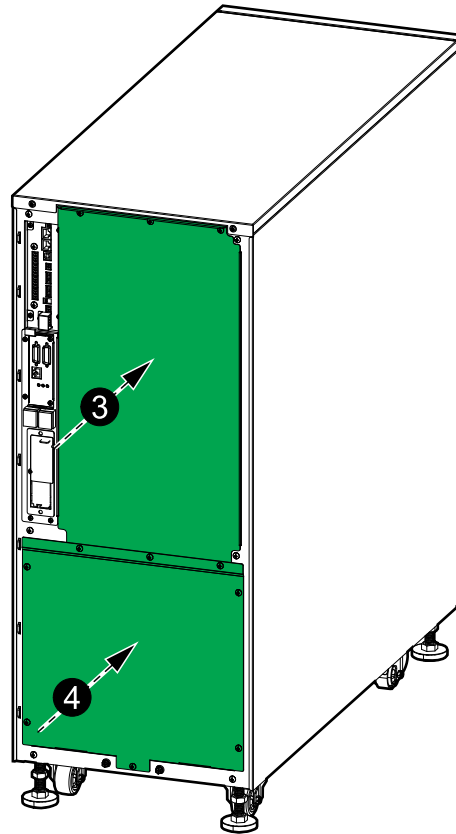
Rear View of the UPS



2. Remove the upper rear plate from the UPS. Discard the upper rear plate and save the screws.

3. Install the new upper IP30 rear plate provided with the IP30 kit on the UPS. Reuse the screws from step 2.

Rear View of the UPS

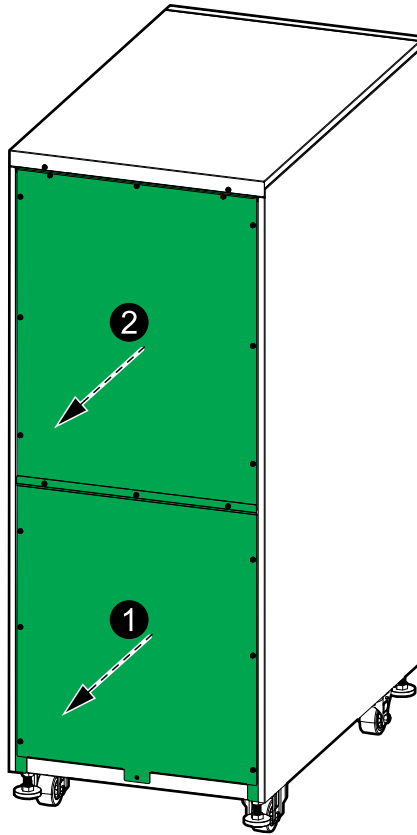


4. Reinstall the lower rear plate on the UPS. Alternatively, the lower rear plate can be installed after the power cables have been connected.
5. Follow the UPS installation manual to install the UPS.

Install the IP30 Kit (E3MOPT010) on a 120-160 kVA 400 V UPS for external batteries

1. Remove the lower rear plate from the UPS. Save for reinstallation.

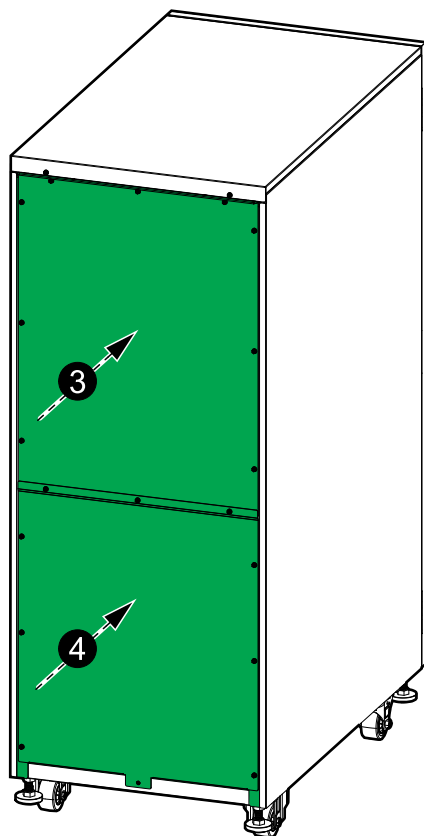
Rear View of the UPS



2. Remove the upper rear plate from the UPS. Discard the upper rear plate and save the screws.

3. Install the new upper IP30 rear plate provided with the IP30 kit on the UPS. Reuse the screws from step 2.

Rear View of the UPS

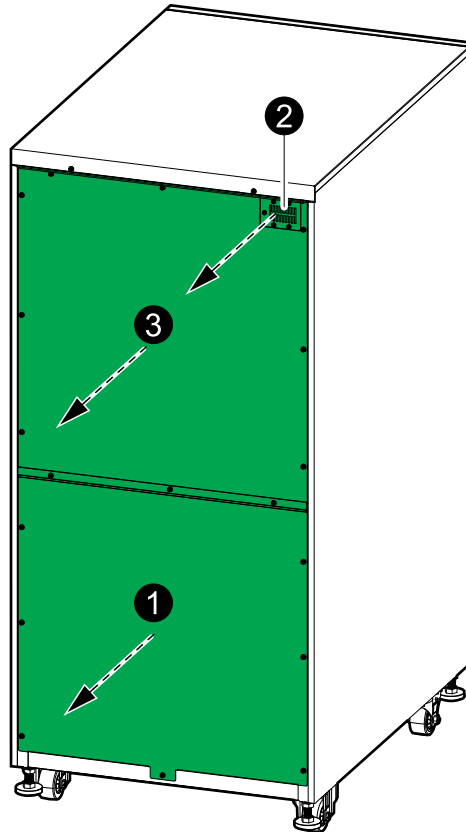


4. Reinstall the lower rear plate on the UPS. Alternatively, the lower rear plate can be reinstalled after the power cables have been connected.
5. Follow the UPS installation manual to install the UPS.

Install the IP30 Kit (E3MOPT011) on a 200 kVA 400 V UPS for external batteries

1. Remove the lower rear plate from the UPS. Save for reinstallation.

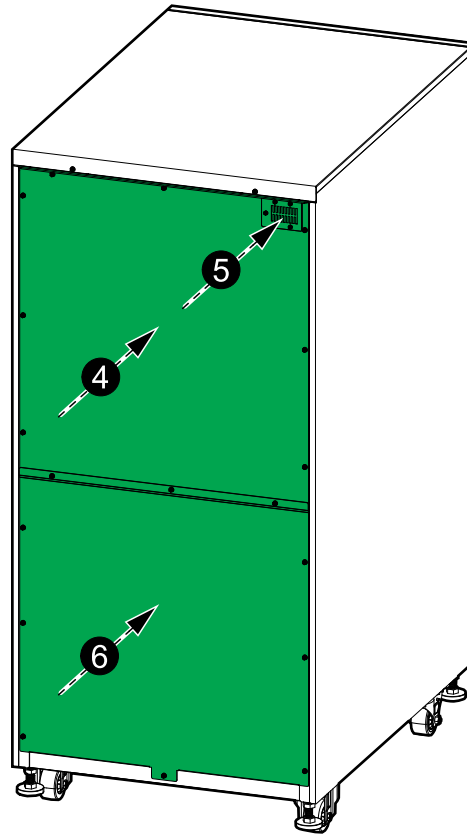
Rear View of the UPS



2. Remove the rear gland plate and the rear brush plate from the UPS. Save the brush plate for reinstallation.
3. Remove the upper rear plate from the UPS. Discard the upper rear plate and save the screws.

4. Install the new upper IP30 rear plate provided with the IP30 kit on the UPS. Reuse the screws from step 3.

Rear View of the UPS

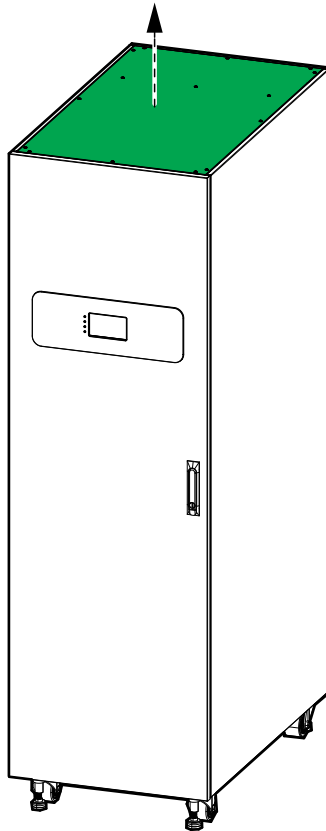


5. Reinstall the rear brush plate and the rear gland plate.
6. Reinstall the lower rear plate on the UPS. Alternatively, the lower rear plate can be reinstalled after the power cables have been connected.
7. Follow the UPS installation manual to install the UPS.

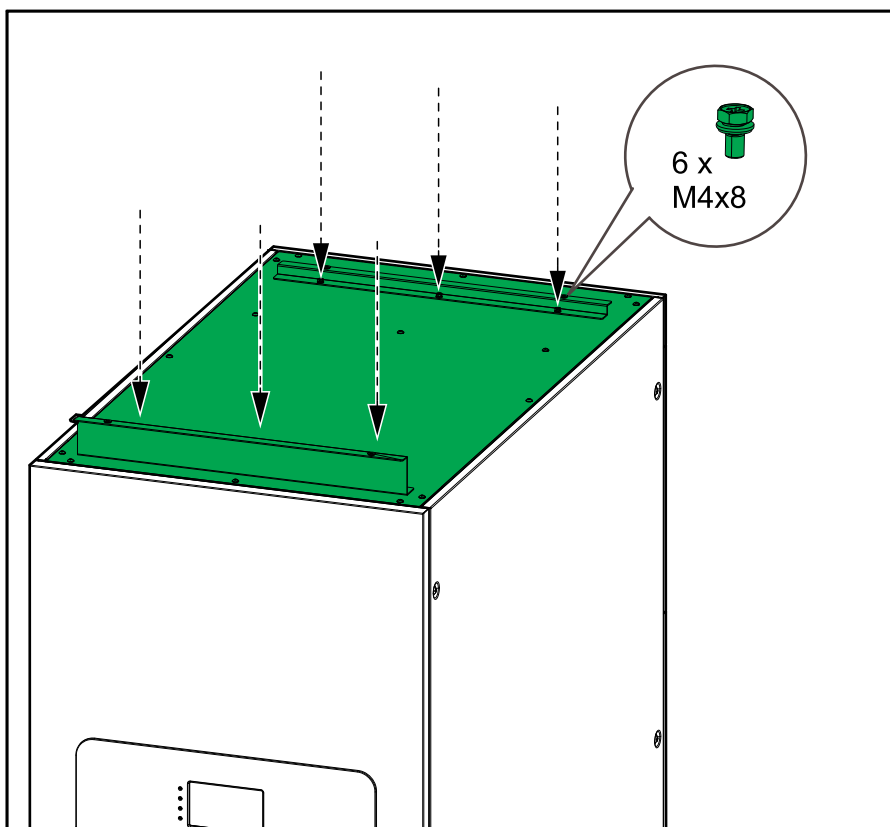
Install the IPX2 Kit (E3MOPT013) on a 60-80 kVA 400 V UPS with internal batteries

NOTE: Top access is required to install the IPX2 kit on the UPS.

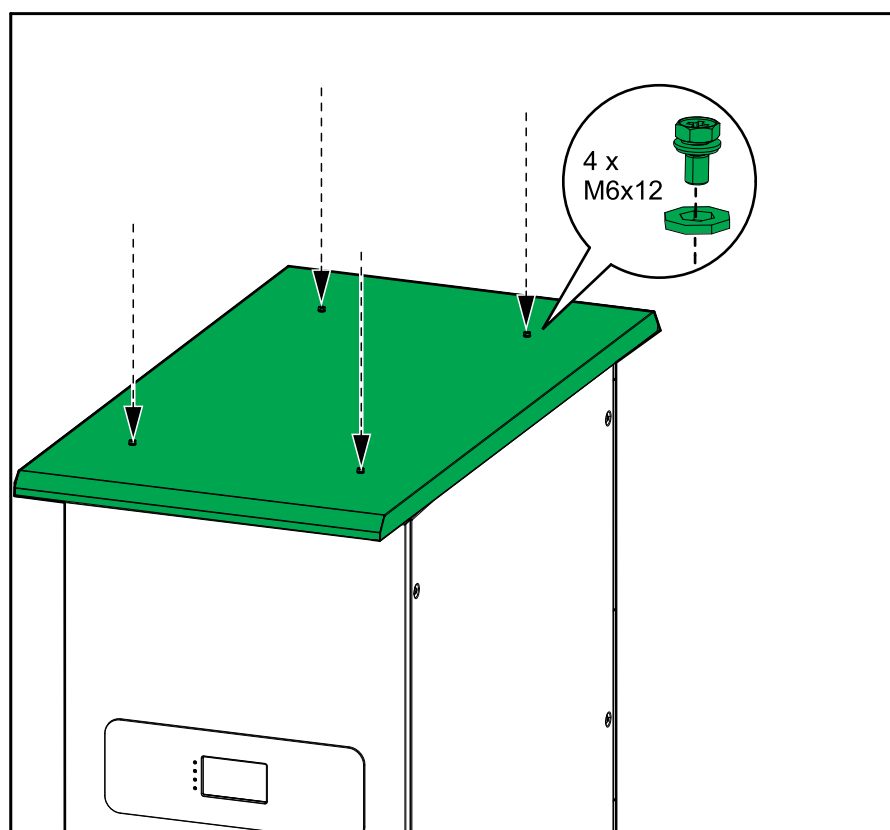
1. Follow the UPS installation manual to install the UPS.
2. Remove the top panel.



3. Install the new IPX2 top plate from the IPX2 kit with M4 screws.



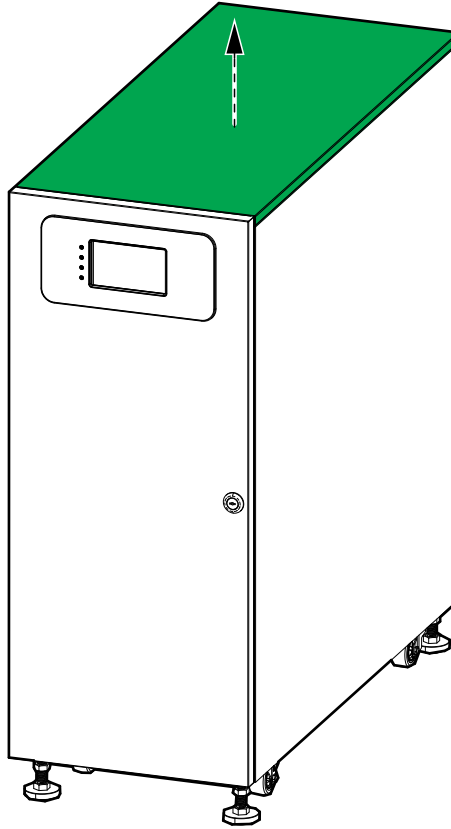
4. Install the provided IPX2 top cover on the top plate with M6 screws and nylon washers.



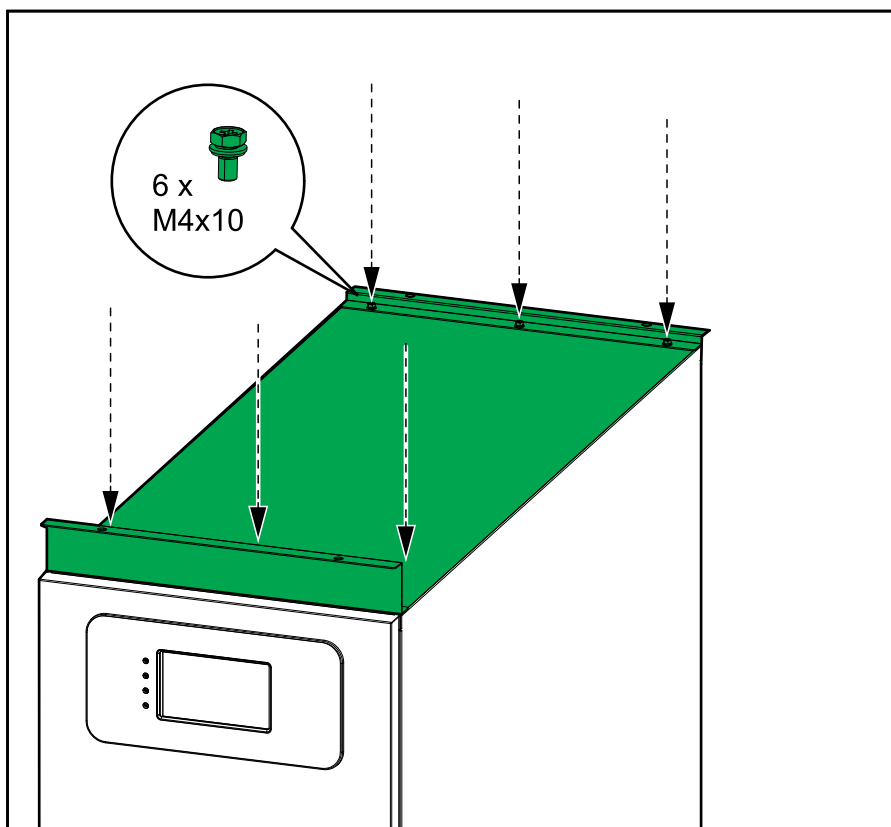
Install the IPX2 Kit (E3MOPT014) on a 60-100 kVA 400 V UPS for external batteries

NOTE: Top access is required to install the IPX2 kit on the UPS.

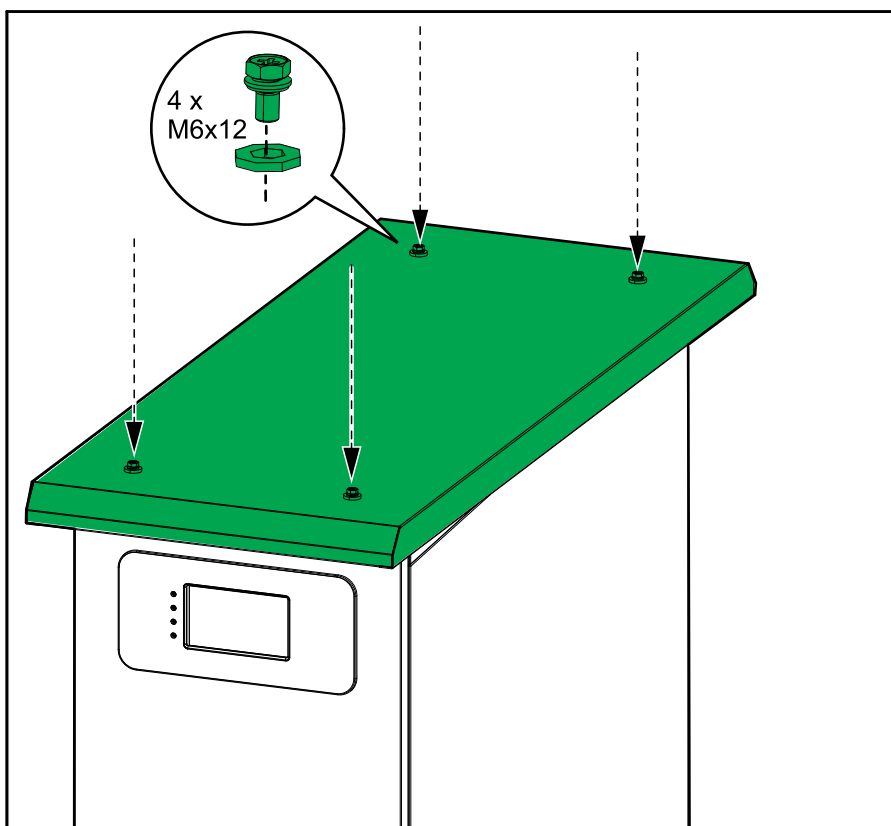
1. Follow the UPS installation manual to install the UPS.
2. Remove the top panel.



3. Install the new IPX2 top plate from the IPX2 kit with M4 screws.



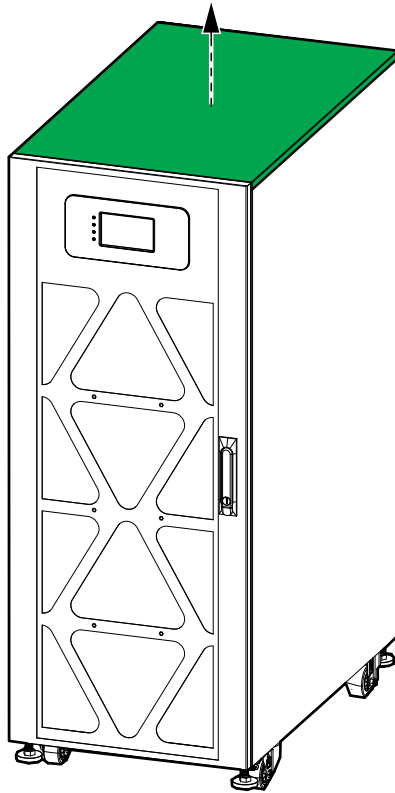
4. Install the provided IPX2 top cover on the top plate with M6 screws and nylon washers.



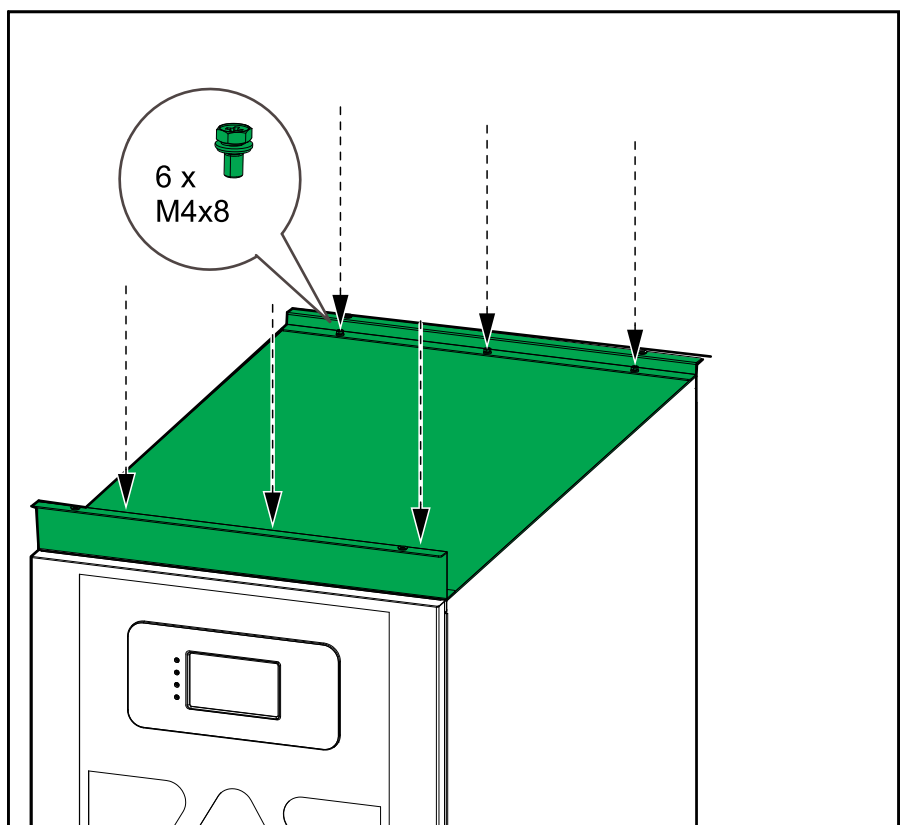
Install the IPX2 Kit (E3MOPT015) on a 120-160 kVA 400 V UPS for external batteries

NOTE: Top access is required to install the IPX2 kit on the UPS.

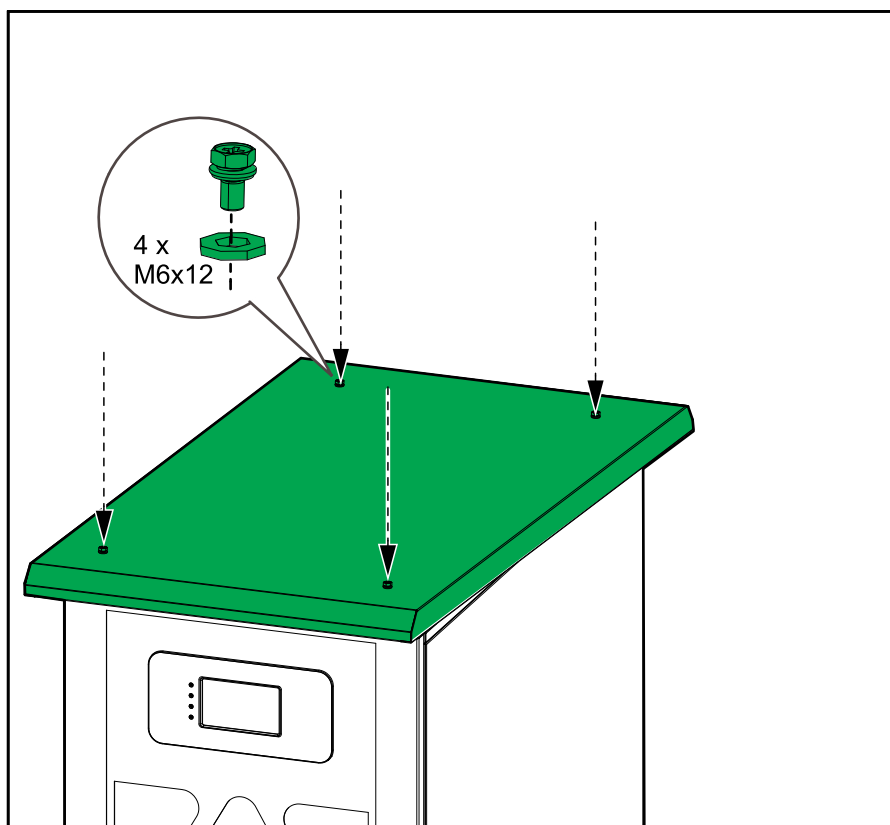
1. Follow the UPS installation manual to install the UPS.
2. Remove the top panel.



3. Install the new IPX2 top plate from the IPX2 kit with M4 screws.



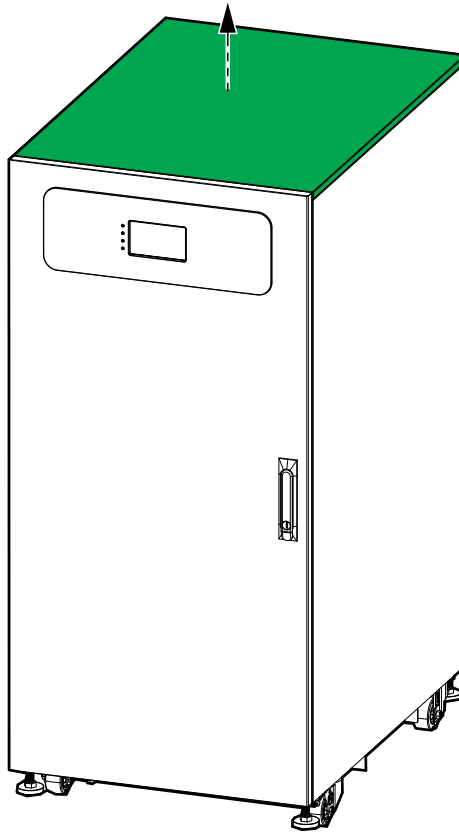
4. Install the provided IPX2 top cover on the top panel with M6 screws and nylon washers.



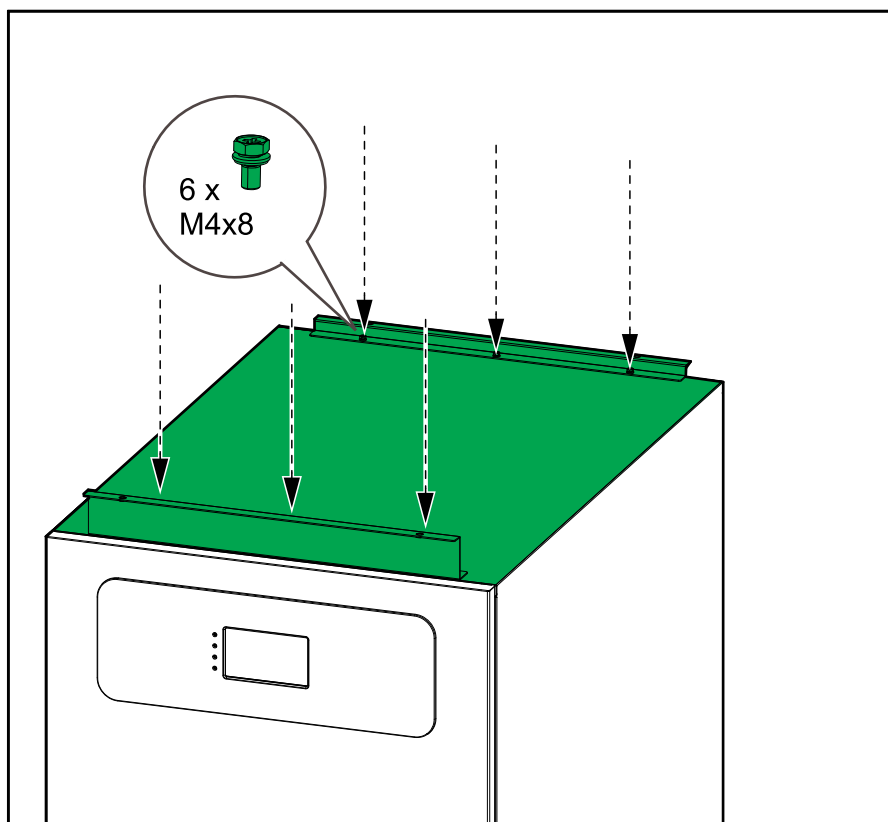
Install the IPX2 Kit (E3MOPT016) on a 200 kVA 400 V UPS for external batteries

NOTE: Top access is required to install the IPX2 kit on the UPS.

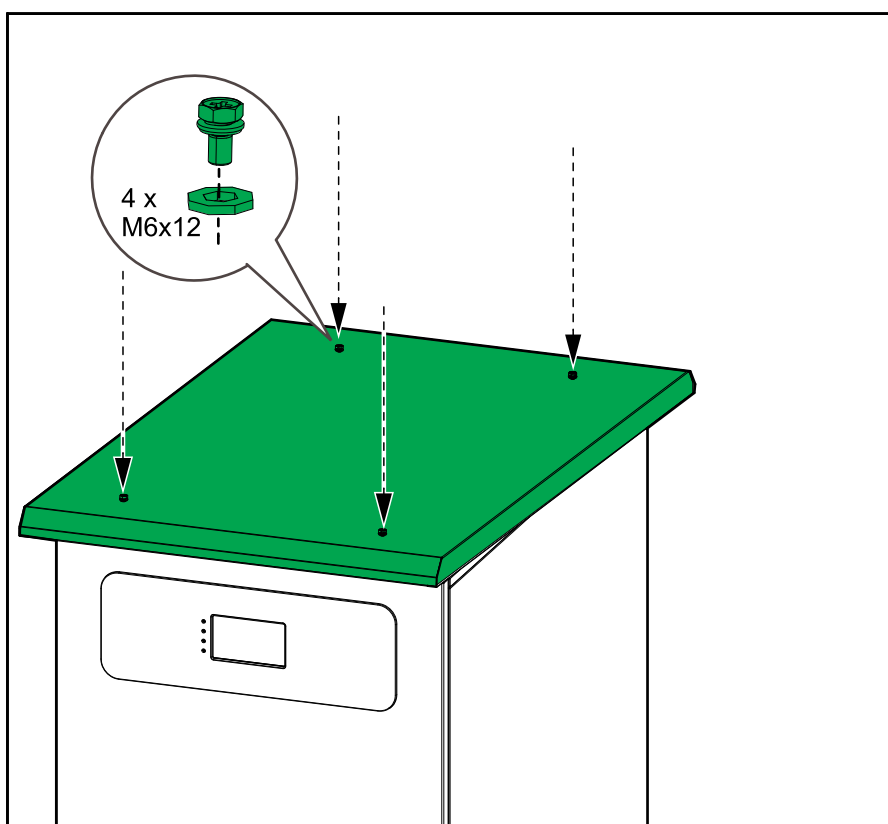
1. Follow the UPS installation manual to install the UPS.
2. Remove the top panel.



3. Install the new IPX2 top plate from the IPX2 kit with M4 screws.



4. Install the provided IPX2 top cover on the top plate with M6 screws and nylon washers.

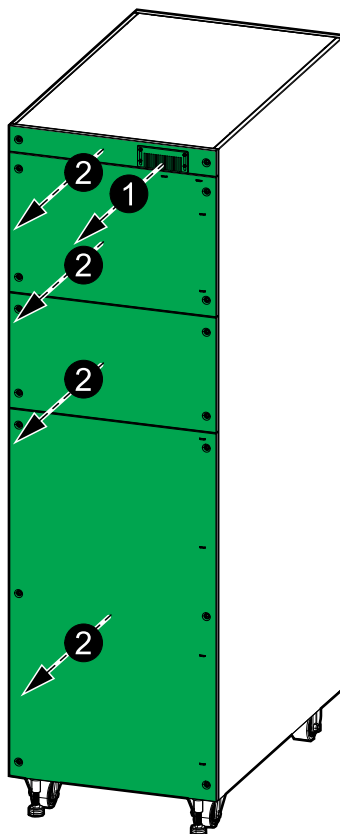


Install the IP40 Kit (E3MOPT017) on a 60-80 kVA 400 V UPS with internal batteries

NOTE: Rear access is required to install the IP40 kit on the UPS.

1. Remove the rear gland plate and the rear brush plate from the UPS. Save the brush plate for reinstallation.

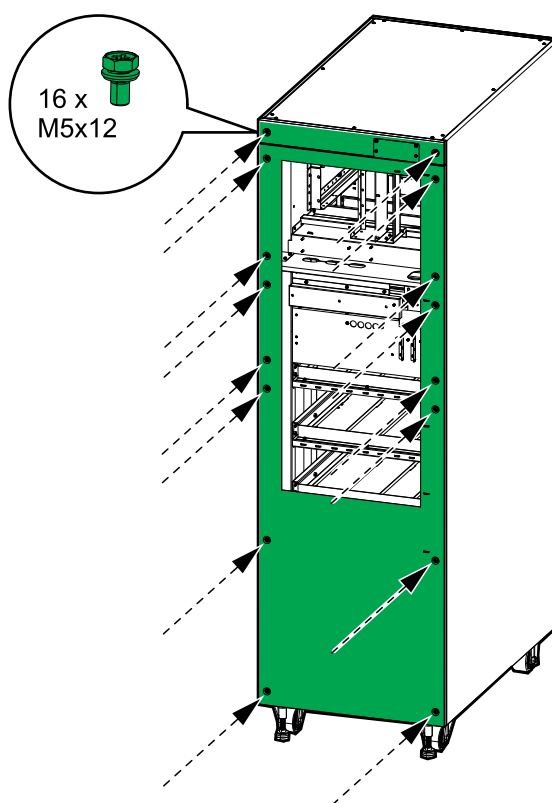
Rear View of the UPS



2. Remove the four rear plates. Discard the plates and save the screws.

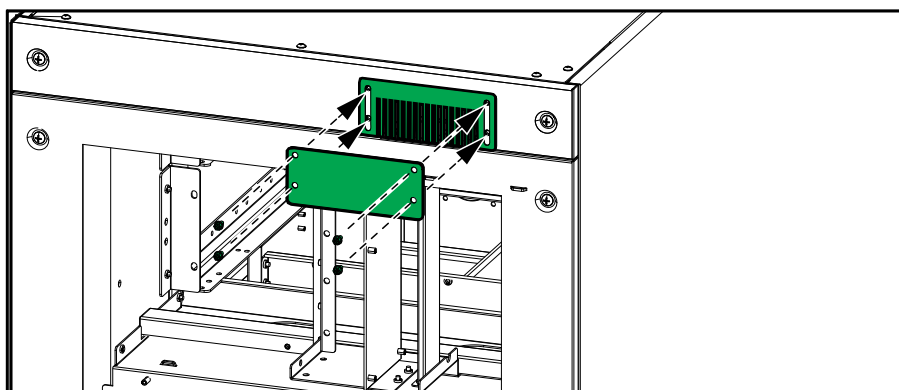
3. Install the new IP40 rear plates from the IP40 kit with M5 screws.

Rear View of the UPS



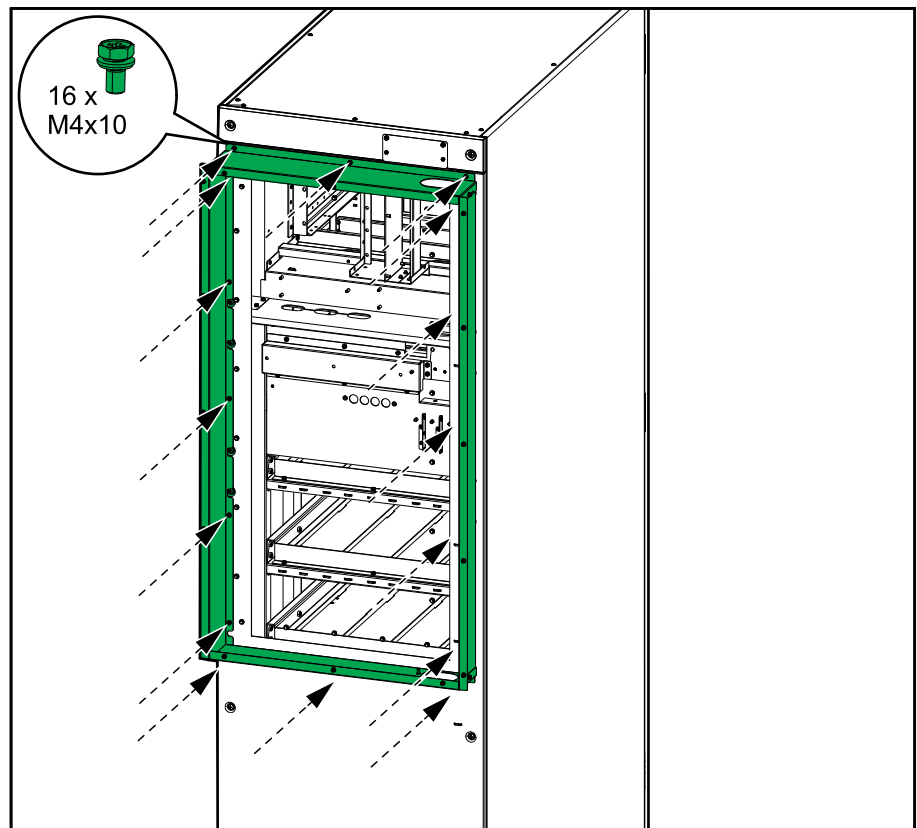
4. Reinstall the rear brush plate and the rear gland plate.

Rear View of the UPS



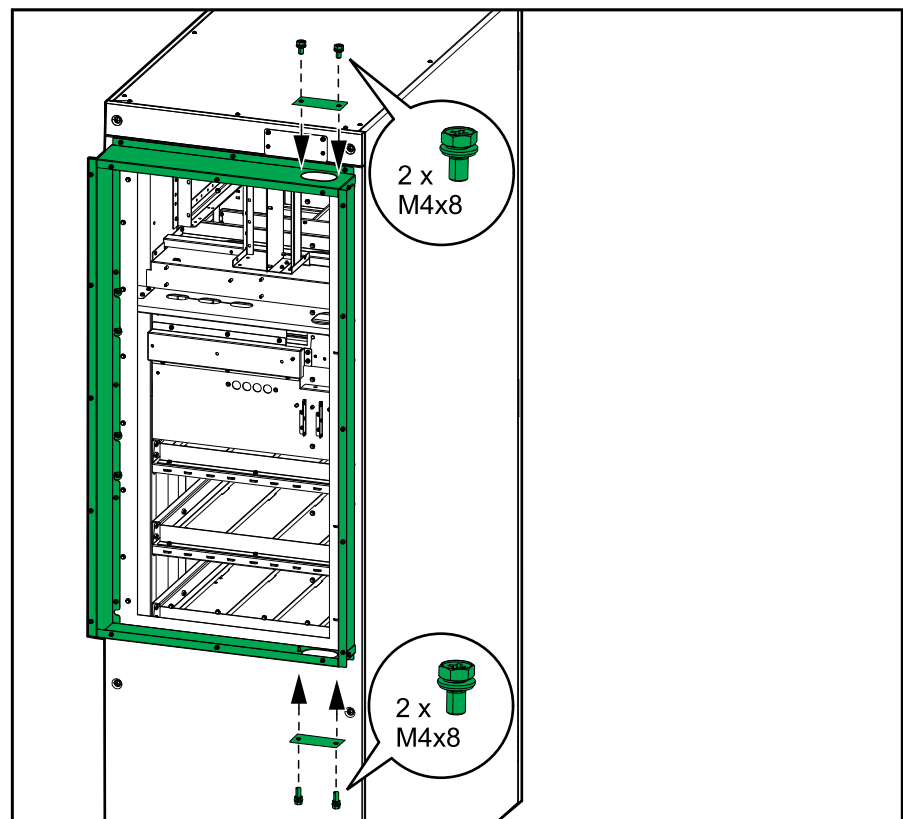
5. Install the provided IP40 frame from the IP40 kit with M4 screws.

Rear View of the UPS



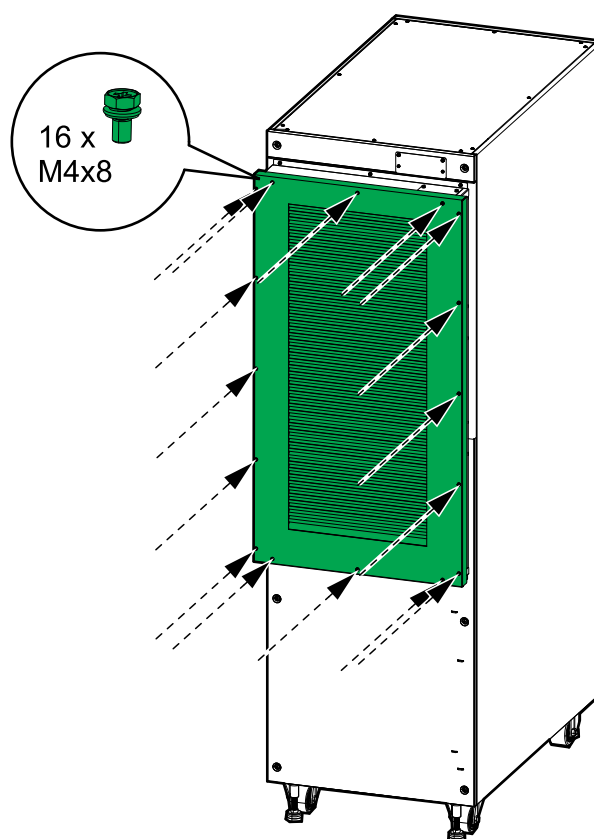
6. Install the provided IP40 gland plates with M4 screws.

Rear View of the UPS



7. Install the provided IP40 cover with M4 screws.

Rear View of the UPS

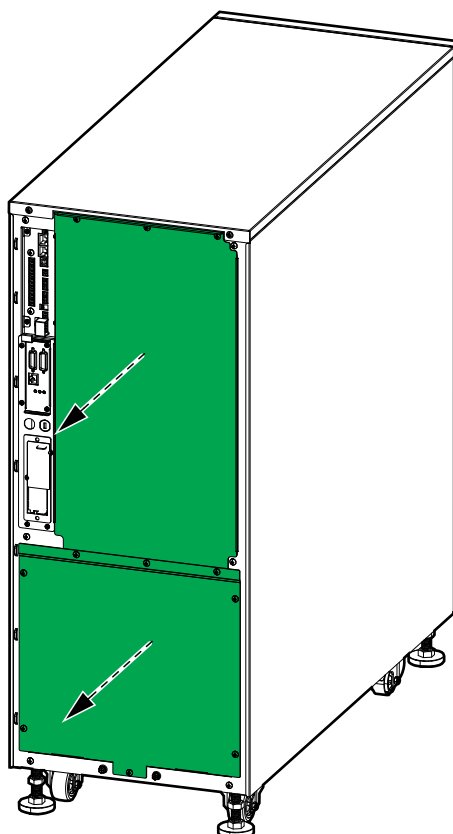


Install the IP40 Kit (E3MOPT018) on a 60-100 kVA 400 V UPS for external batteries

NOTE: Rear access is required to install the IP40 kit on the UPS.

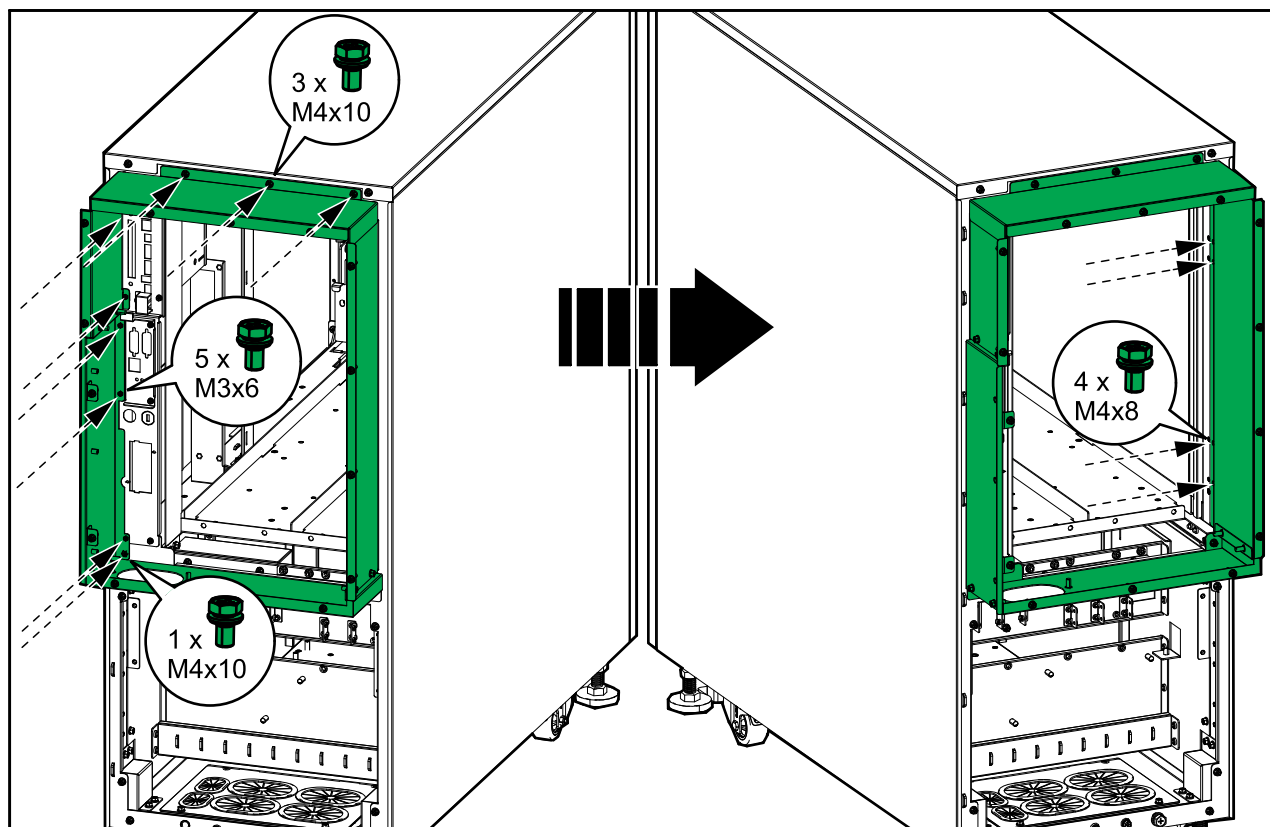
1. Follow the UPS installation manual to install the UPS.
2. Remove the upper and lower rear plates. Save the lower rear plate for reinstallation.

Rear View of the UPS



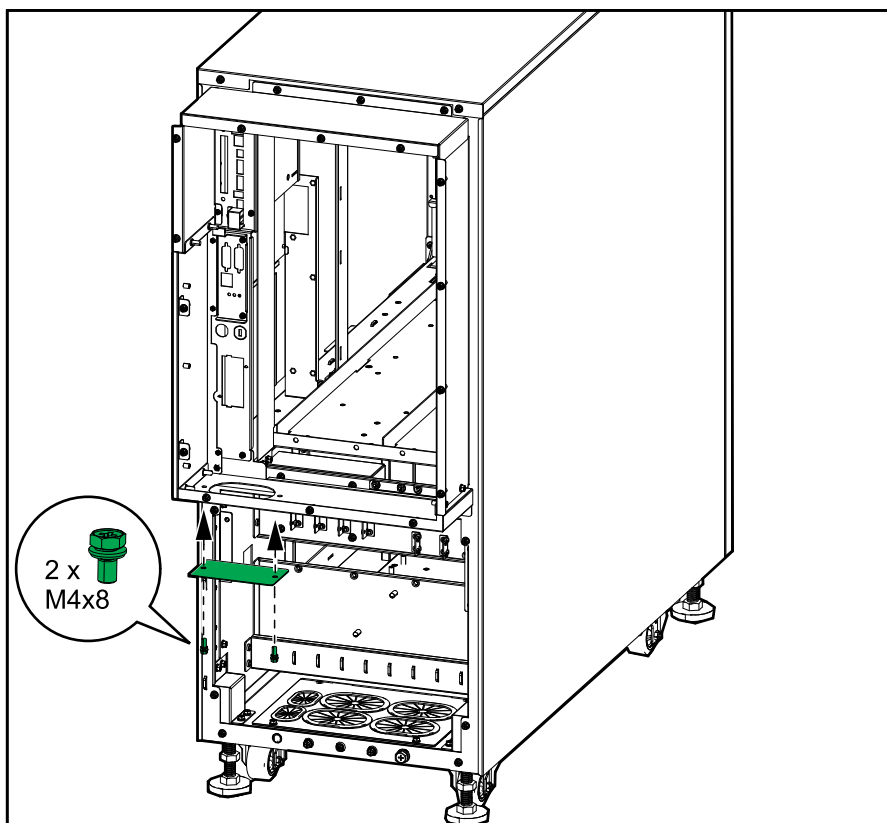
3. Install the provided IP40 frame from the IP40 kit.

Rear View of the UPS



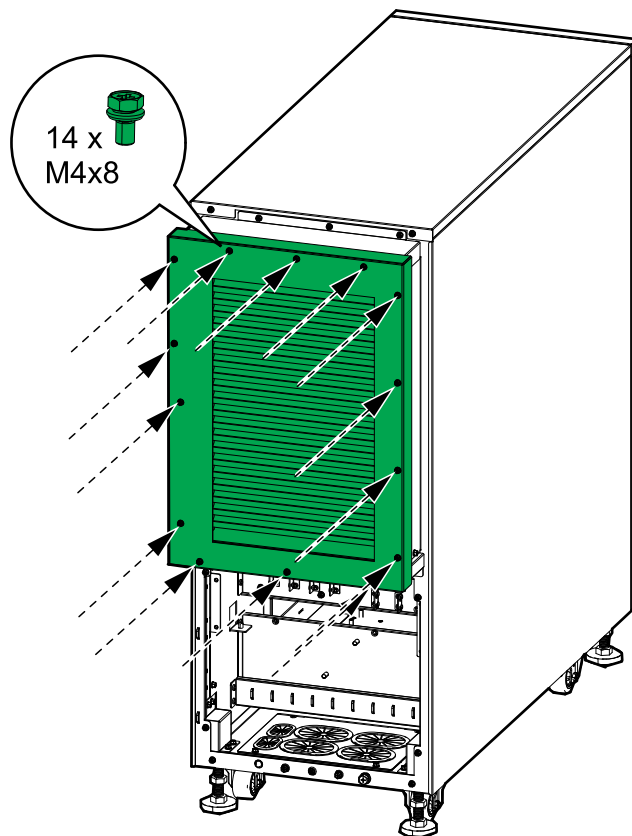
4. Install the provided IP40 gland plate with M4 screws.

Rear View of the UPS



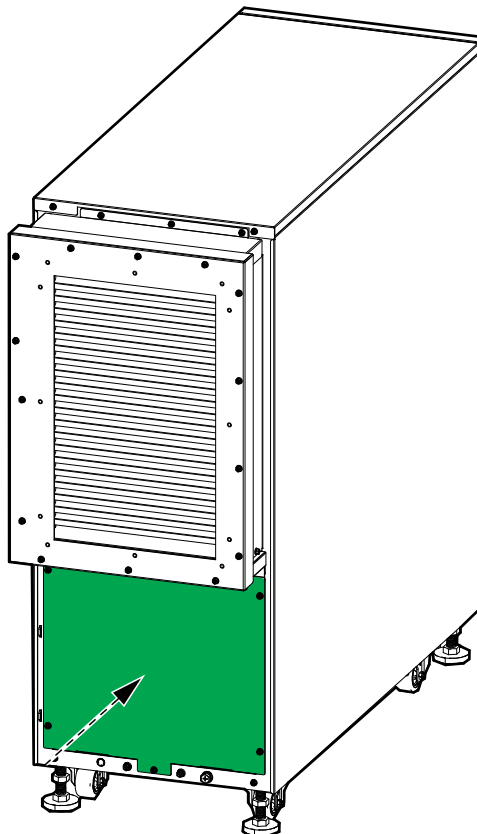
5. Install the provided IP40 cover with M4 screws.

Rear View of the UPS



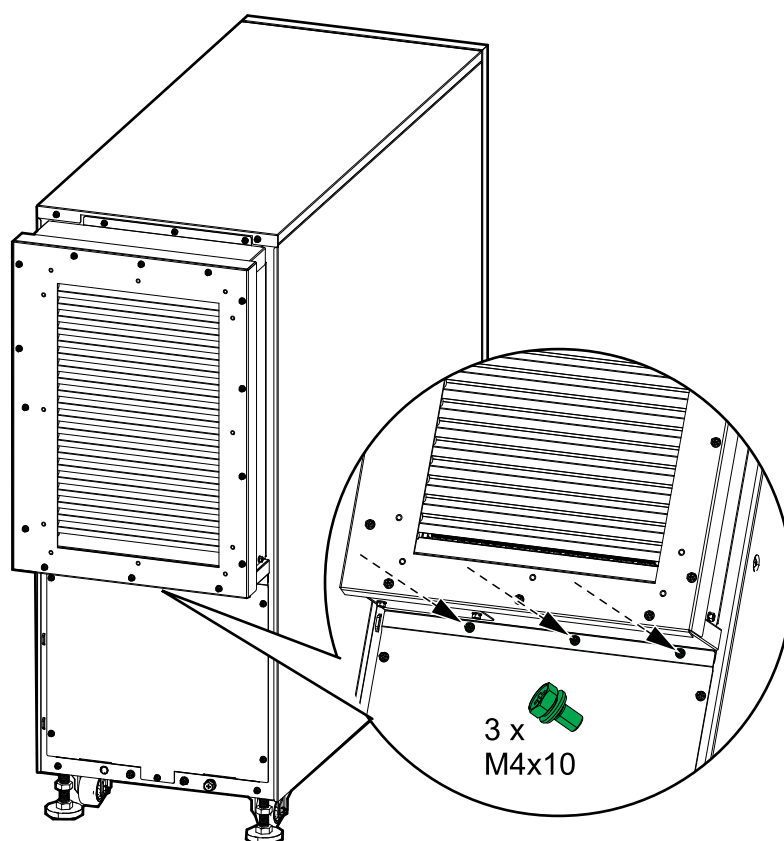
6. Reinstall the lower rear plate on the UPS. Alternatively, the lower rear plate can be reinstalled after the power cables have been connected.

Rear View of the UPS



7. Install M4 screws at the bottom of the IP40 frame.

Rear View of the UPS

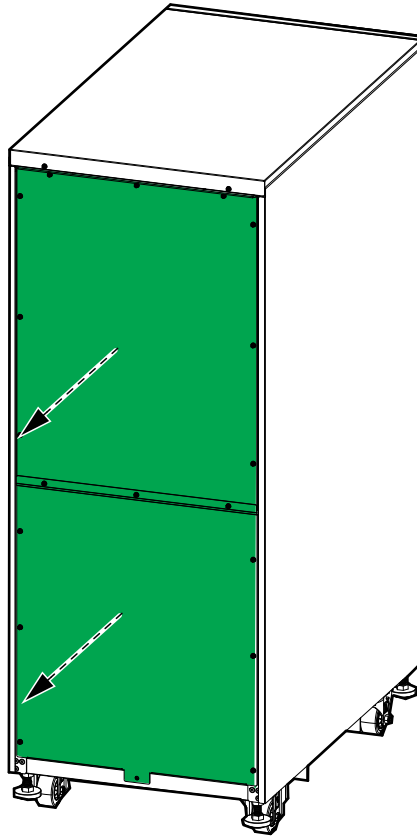


Install the IP40 Kit (E3MOPT019) on a 120-160 kVA 400 V UPS for external batteries

NOTE: Rear access is required to install the IP40 kit on the UPS.

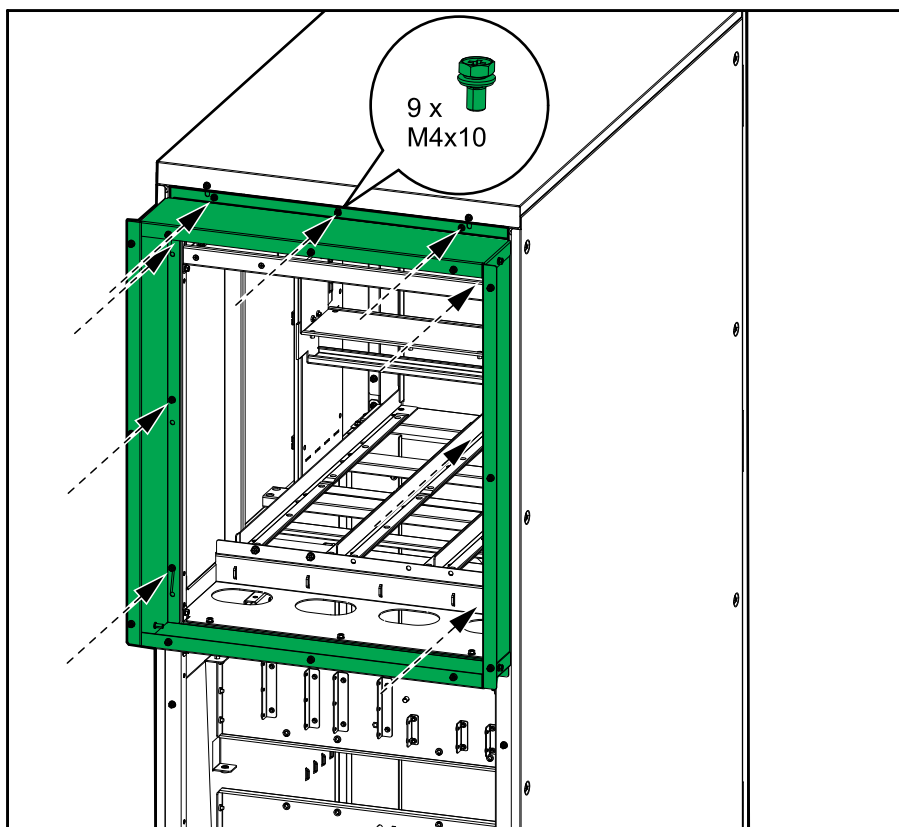
1. Follow the UPS installation manual to install the UPS.
2. Remove the upper and lower rear plates.

Rear View of the UPS



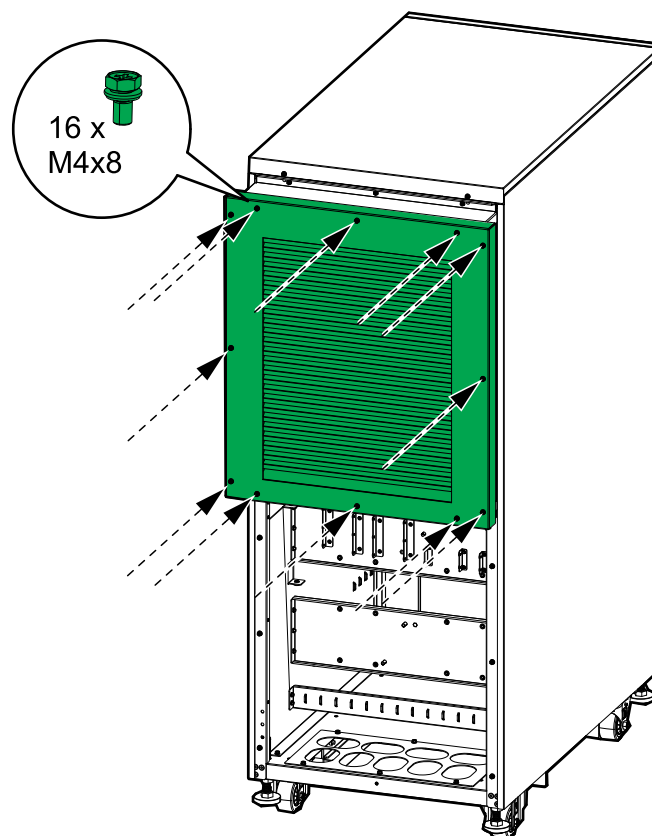
3. Install the provided IP40 frame from the IP40 kit with M4 screws.

Rear View of the UPS



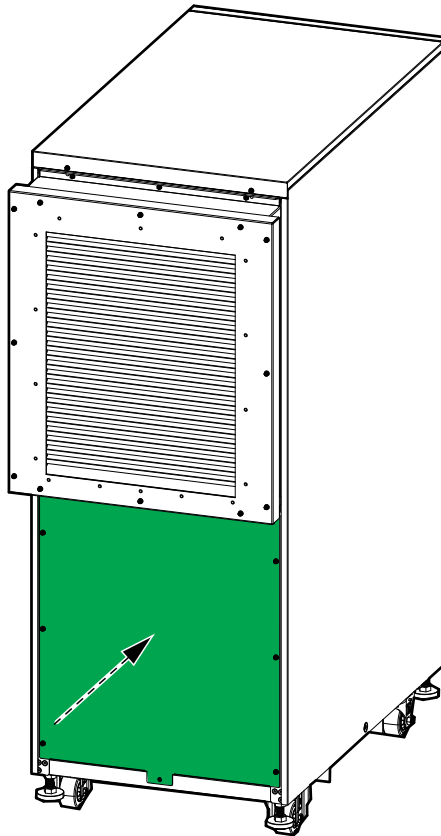
4. Install the provided IP40 cover with M4 screws.

Rear View of the UPS



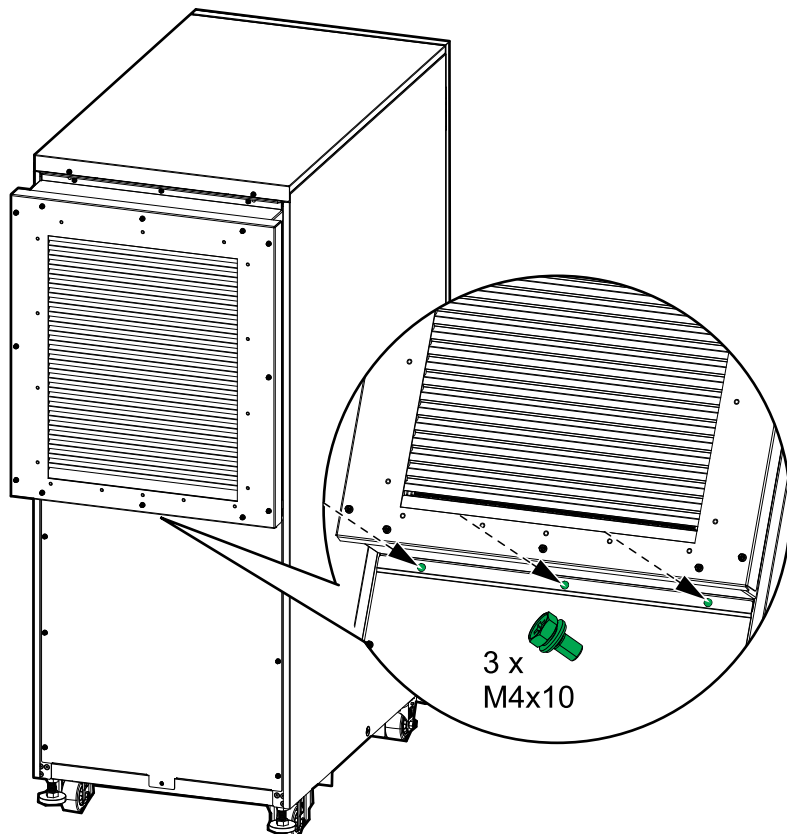
5. Reinstall the lower rear plate on the UPS. Alternatively, the lower rear plate can be reinstalled after the power cables have been connected.

Rear View of the UPS



6. Install M4 screws at the bottom of the IP40 frame.

Rear View of the UPS

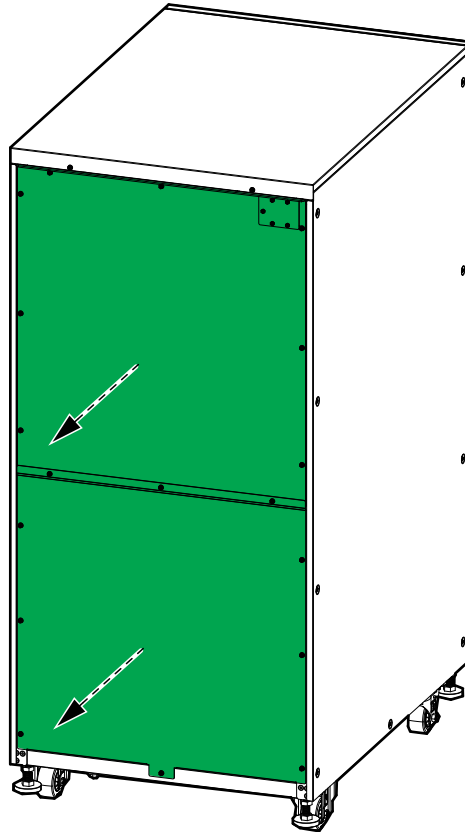


Install the IP40 Kit (E3MOPT020) on a 200 kVA 400 V UPS for external batteries

NOTE: Rear access is required to install the IP40 kit on the UPS.

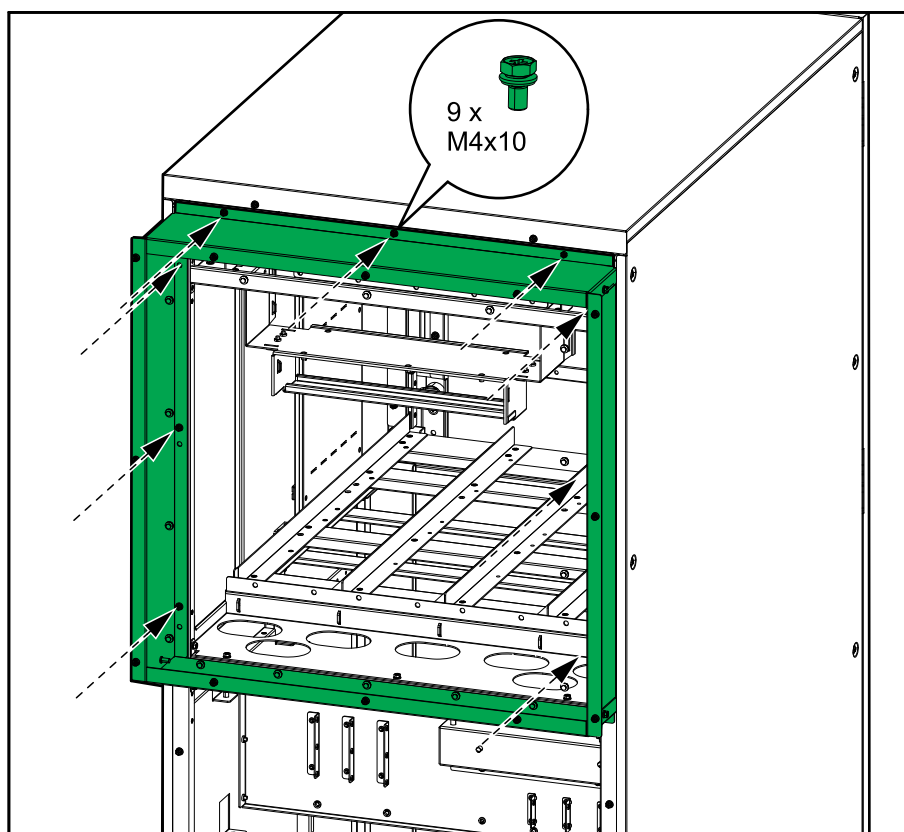
1. Follow the UPS installation manual to install the UPS.
2. Remove the upper and lower rear plates.

Rear View of the UPS



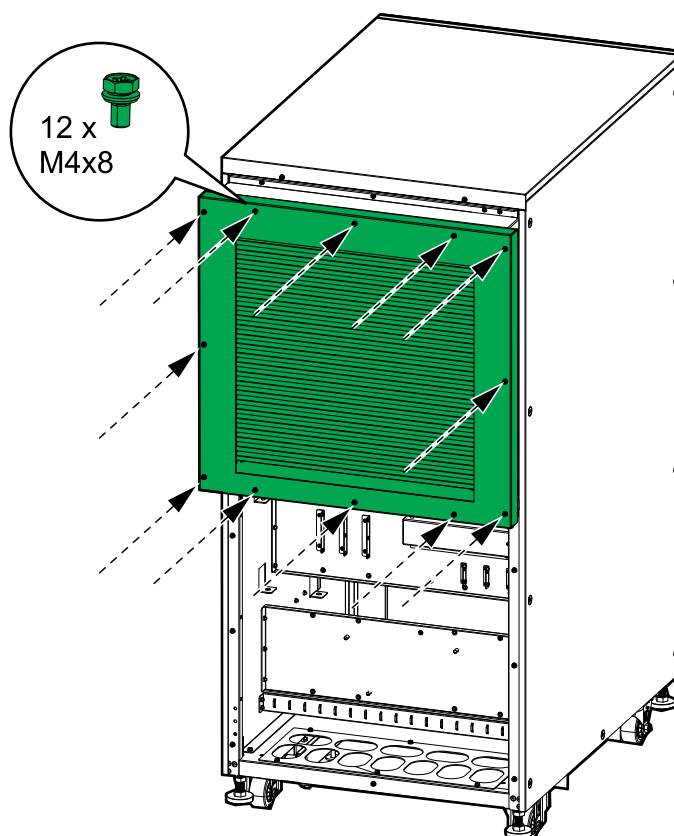
3. Install the provided IP40 frame from the IP40 kit with M4 screws.

Rear View of the UPS



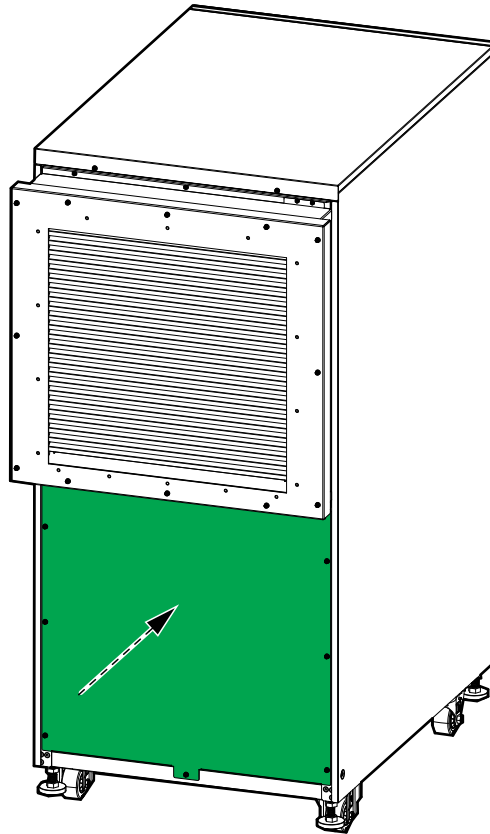
4. Install the provided IP40 cover with M4 screws.

Rear View of the UPS



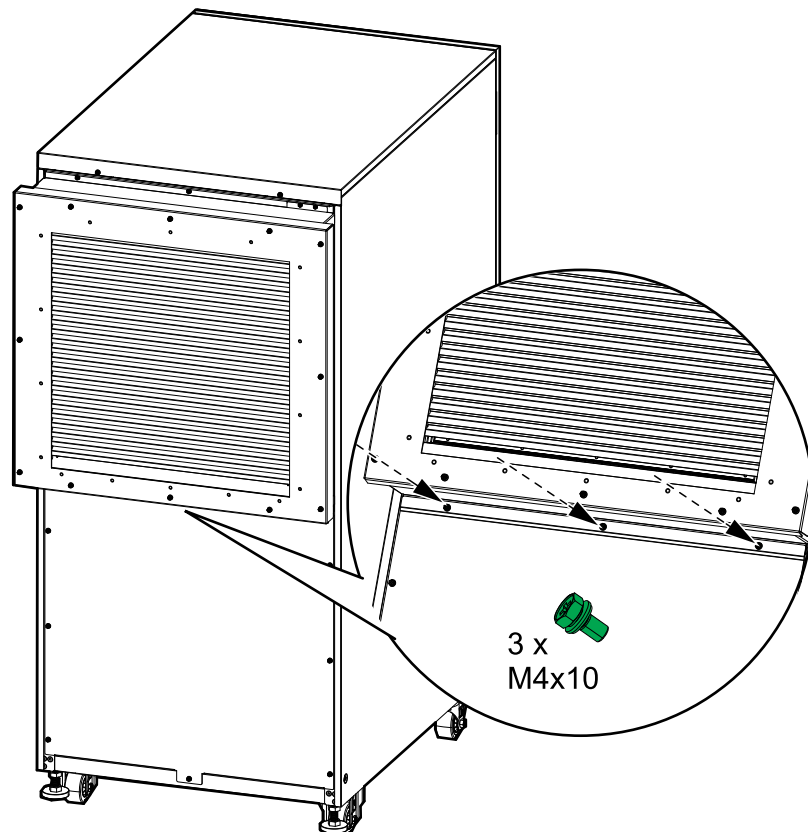
5. Reinstall the lower rear plate on the UPS. Alternatively, the lower rear plate can be reinstalled after the power cables have been connected.

Rear View of the UPS



6. Install M4 screws at the bottom of the IP40 frame.

Rear View of the UPS



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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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