# Modular Battery Cabinet

## For Easy UPS 3S Pro

## Installation

**E3SXR8**
**Latest updates are available on the Schneider Electric website**

**05/2026**

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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**

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

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

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

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

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

## ⚠⚠DANGER

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

## ⚠⚠DANGER

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

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

## ⚠⚠DANGER

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

**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 product and do not cover the ventilation openings when the product is in operation.

**Failure to follow these instructions can result in equipment damage.**

## Additional Safety Precautions After Installation

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

## Electrical Safety

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

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

The label below must be added if:

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

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

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

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

# 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.
- Failed batteries can reach temperatures that exceed the burn thresholds for touchable surfaces.
- 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 and burns by high short-circuit current. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance by a skilled person (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.**

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

When replacing batteries, always replace with the same type and number of batteries or battery packs.

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

## ⚠CAUTION

**RISK OF EQUIPMENT DAMAGE**

- Mount the batteries in the UPS system, but do not connect the batteries until the UPS system is ready to be powered up. The time duration from battery connection until the UPS system is powered up must not exceed 72 hours or 3 days.
- Batteries must not be stored more than six months due to the requirement of recharging. If the UPS system remains de-energized for a long period, we recommend that you energize the UPS system for a period of 24 hours at least once every month. This charges the batteries, thus avoiding irreversible damage.

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

# Specifications

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

The modular battery cabinet must only be used with the Easy UPS 3S Pro.

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

***NOTICE***

**HAZARD OF EQUIPMENT DAMAGE**

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

**Failure to follow these instructions can result in equipment damage.**

| Nominal battery voltage (V) | Battery type | Maximum number of battery strings | Number of battery blocks per string | Maximum short-circuit level (Icc) |
|---|---|---|---|---|
| 480 | Lead-acid | 6 strings (24 battery modules) | 40 | Icc = 16 kA |

## Disconnect Device Battery Circuit Breaker Specifications

| | |
|---|---|
| Type | C16S4TM160D |
| Rating (A) | 160 |
| Withstand rating | 100 kA |
| Ir | 114 A (Easy UPS 3S Pro) |
| Im | 1250 A |

## Torque Specifications

| Bolt size | Torque |
|---|---|
| M6 | 5 Nm |
| M8 | 17.5 Nm |
| M10 | 30 Nm |

## Modular Battery Cabinet Shipping Weights and Dimensions

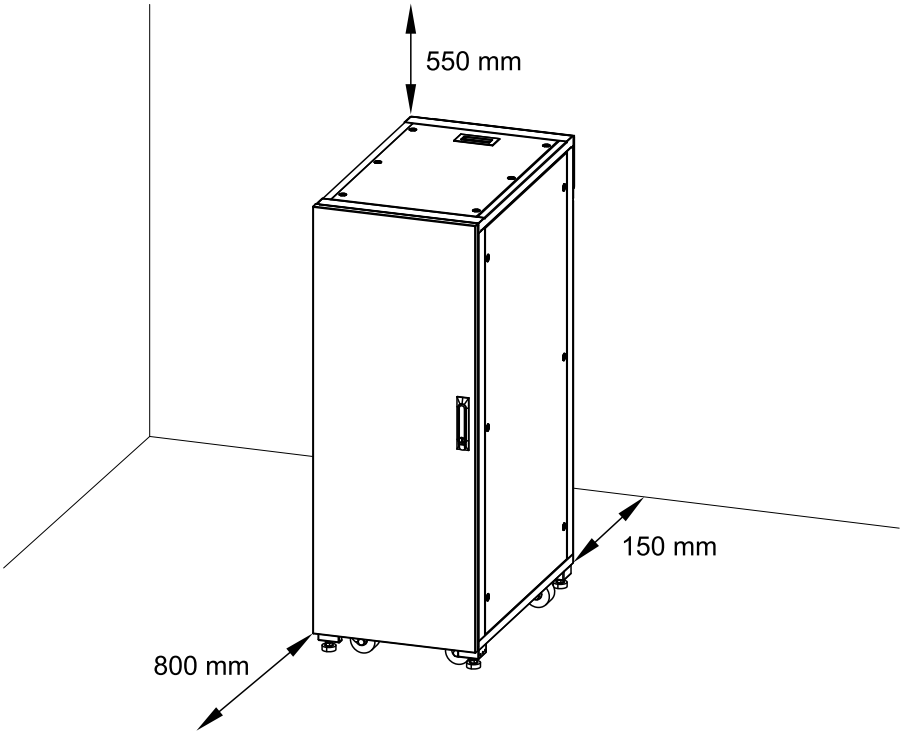
| Commercial reference | Weight kg | Height mm | Width mm | Depth mm |
|---|---|---|---|---|
| E3SXR8<br>– Empty<br>– With 24 battery strings | <br>170<br>992 | 1600 | 670 | 1020 |

# Modular Battery Cabinet Weights and Dimensions

| Commercial reference | Weight kg | Height mm | Width mm | Depth mm |
|---|---|---|---|---|
| E3SXR8<br>– Empty<br>– With 24 battery strings | <br>149<br>797 | 1400 | 500 | 851 |

# 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:** The recommended rear clearance is 500 mm. The required minimum rear clearance is 150 mm for correct air flow.

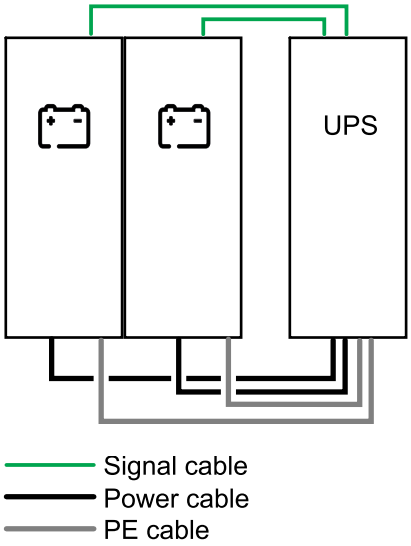
# Environment

| | Operating | Storage |
|---|---|---|
| Temperature | 0 °C to 40 °C | -15 °C to 40 °C |
| Relative humidity | 0-95% non-condensing | 10-80% non-condensing |
| Elevation | 0-3000 m | |
| Protection class | IP20 | |
| Color | RAL 9003, gloss level 85% | |

# Compliance

| | |
|---|---|
| Safety | IEC 62040-1:2017+AMD1:2021+AMD2:2022, Uninterruptible power systems (UPS) - Part 1: Safety requirements |
| Transportation | ISTA 2B |
| Protective class | I |
| Pollution degree | 2 |

# Installation Procedure




1. Connect the Power Cables between the Easy UPS 3S Pro UPS and the Modular Battery Cabinet, page 15.
2. Connect the Signal Cables between the Easy UPS 3S Pro UPS and the Modular Battery Cabinet, page 19.
3. **For parallel connection only**: Connect the Modular Battery Cabinets in Parallel with Easy UPS 3S Pro, page 24.
4. Install Battery Modules in the Modular Battery Cabinet, page 30.

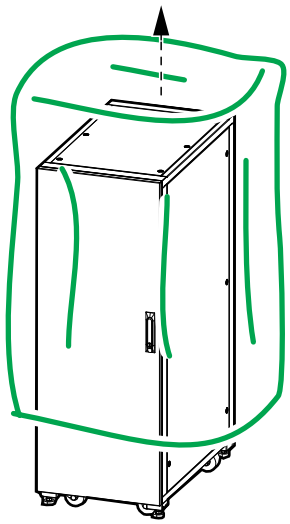
For moving or decommissioning the cabinet after installation has been completed, see Decommission or Move the Modular Battery Cabinet to a New Location, page 34.

# Connect the Power Cables between the Easy UPS 3S Pro UPS and the Modular Battery Cabinet

**NOTE:** Route the signal cables separately from the power cables.

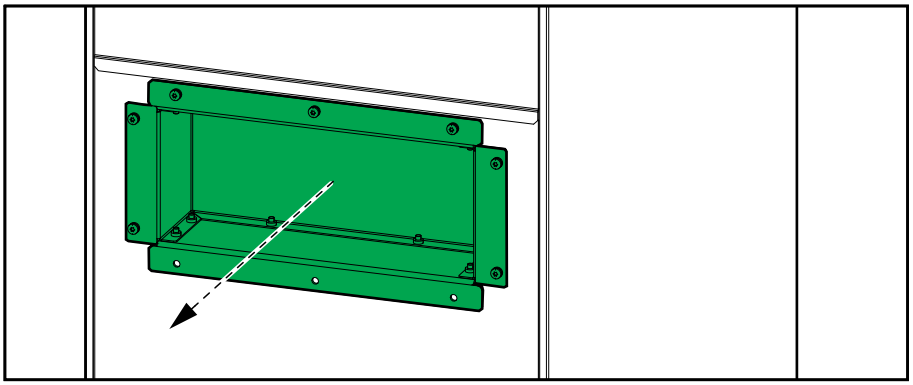
1. Remove the packaging bag without cutting it – save the packaging bag for later use.

**Front View of the Modular Battery Cabinet**



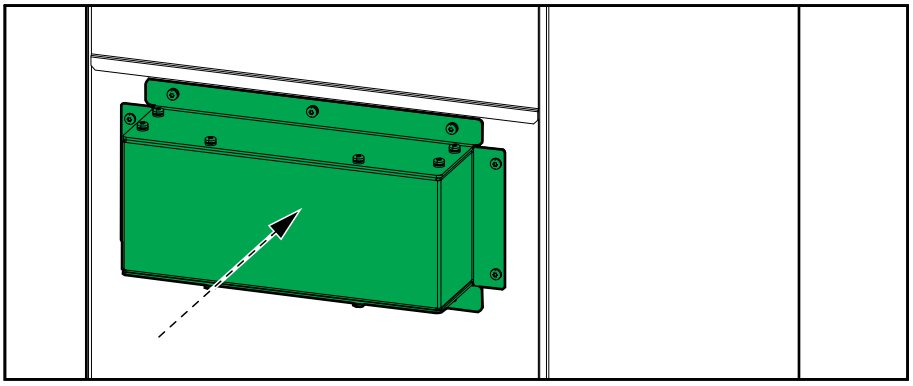
2. Remove the conduit box from the rear of the modular battery cabinet.

**Rear View of the Modular Battery Cabinet**



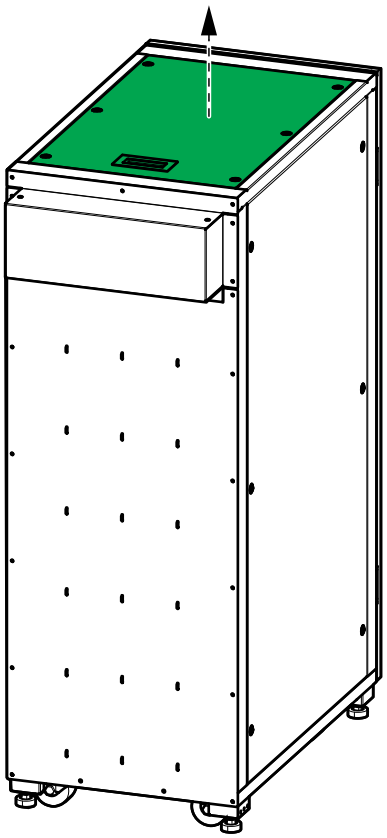
3. Install the conduit box on the modular battery cabinet. Note that the conduit box is installed in the reverse position.

**Rear View of the Modular Battery Cabinet**



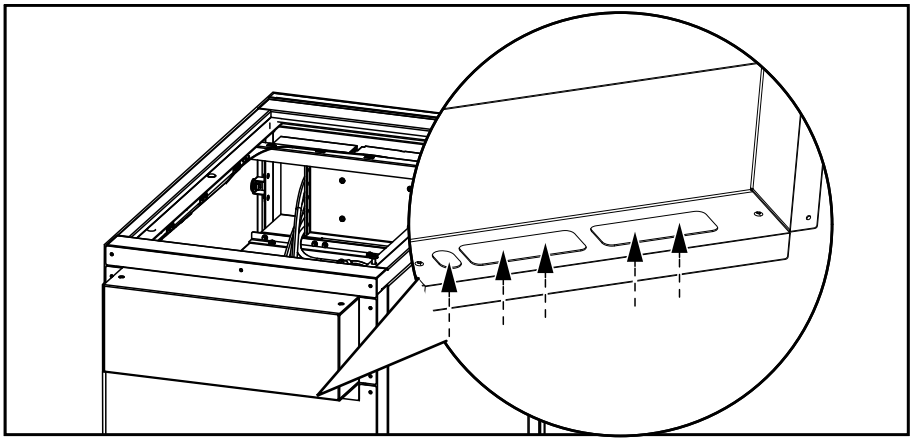
4. Remove the top cover from the modular battery cabinet.

**Rear View of the Modular Battery Cabinet**



5. Remove the installation kit from the top of the modular battery cabinet. The installation kit contains DC cables, hardware, and cable ties for interconnection between the modular battery cabinet and the UPS.
   - DC+ cable WH00141 (red)
   - DC N cable WH00142 (blue)
   - DC- cable WH00143 (white)
   - PE cable WH00146 (yellow and green)
6. Cut holes on the cable brush plate on the conduit box.

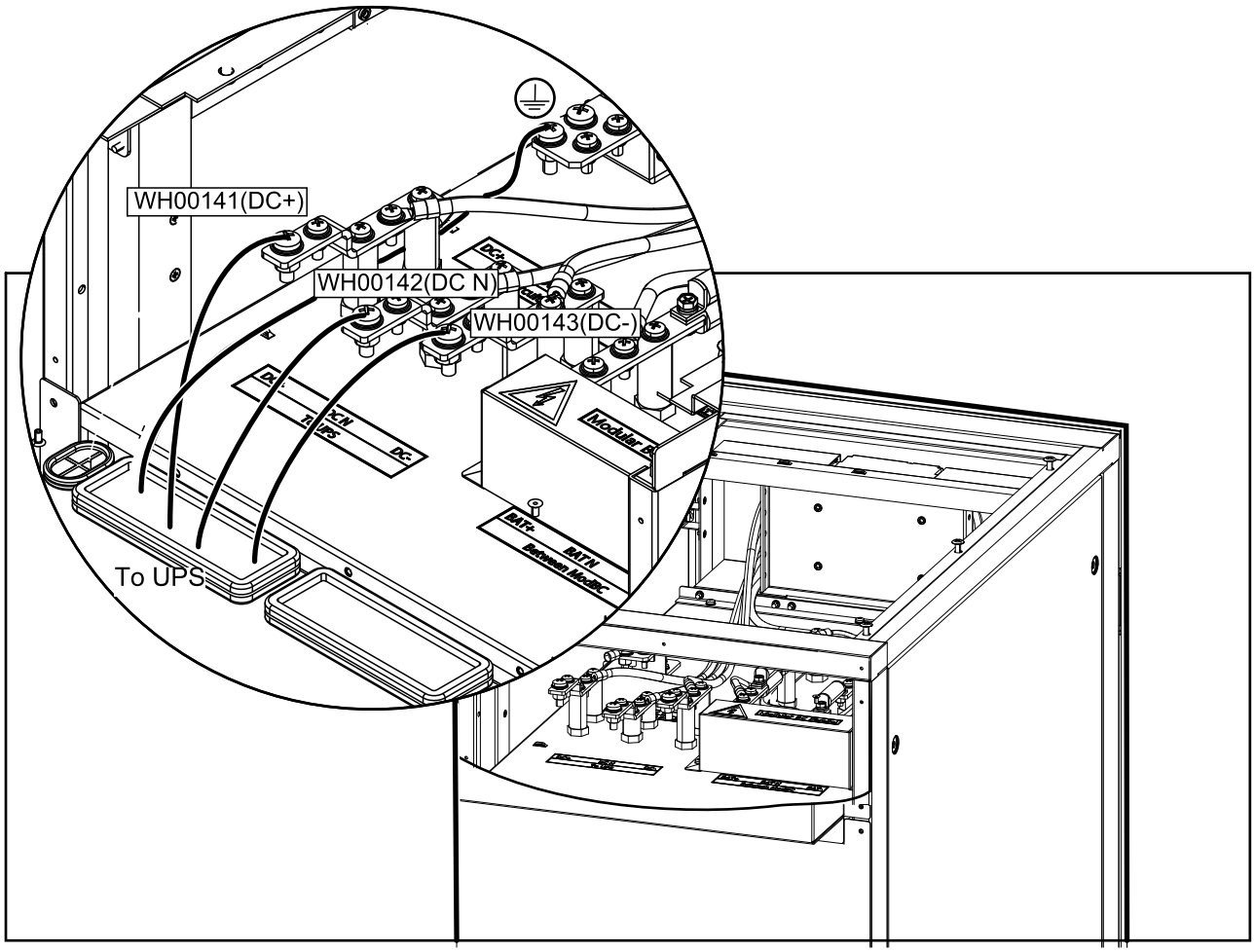
**Rear View of the Modular Battery Cabinet**



7. Connect the supplied DC cables (DC+, DC-, DC N) to the UPS.
   a. Connect the provided PE cable and the DC cables (DC+, DC-, DC N) in the modular battery cabinet.
   b. Route the PE cable and DC cables (DC+, DC-, DC N) out through the conduit box and into the UPS power cabling area.
   c. Follow the UPS installation manual to connect the PE cable and DC cables (DC+, DC-, DC N) in the UPS.

      **NOTE:** The provided DC cables have an M6 connector on one end and an M8 connector on the other end. Select the appropriate connector size based on the UPS commercial reference. See DC Cable Connector Size Selection, page 17 for details.

**Rear View of the Modular Battery Cabinet**

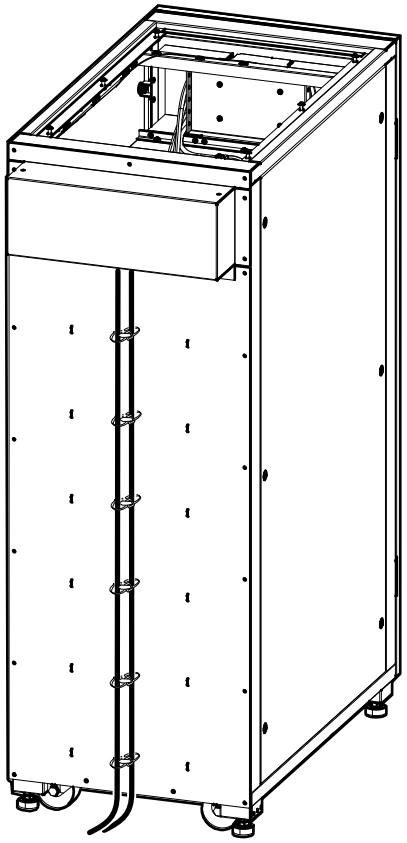



**DC Cable Connector Size Selection**

| UPS commercial reference | DC cable end connector size - in the UPS | DC cable end connector size - in the modular battery cabinet |
|---|---|---|
| E3SP10KH, E3SP15KH<br>E3SP20KH, E3SP30KH, E3SP40KH<br>E3SP15KHIN, E3SP20KHIN<br>E3SP30KHIN, E3SP40KHIN<br>E3SP10K3I, E3SP15K3I<br>E3SP20K3I, E3SP30K3I<br>E3SP15K3IIN, E3SP20K3IIN<br>E3SP30K3IIN<br>E3SP10KHB, E3SP15KHB<br>E3SP20KHB, E3SP30KHB<br>E3SP10K3IB, E3SP15K3IB<br>E3SP20K3IB | M6 | M8 |
| E3SP40KHB<br>E3SP30K3IB | M8 | M6 |

8. Fasten the power cables to the cable reliefs.

**Rear View of the Modular Battery Cabinet**



# Connect the Signal Cables between the Easy UPS 3S Pro UPS and the Modular Battery Cabinet

**NOTE:** Route the signal cables separately from the power cables to ensure sufficient isolation.

**NOTE:** Use double isolated signal cables. The signal cables must have a minimum rating of 600 V.

1. Open the front door of the modular battery cabinet.
2. Install the temperature sensor E3SOPT003 (not provided). Route the signal cables for the temperature sensor along the right side of the cabinet, through the conduit box, and into the UPS signal cabling area.

**⚠WARNING**

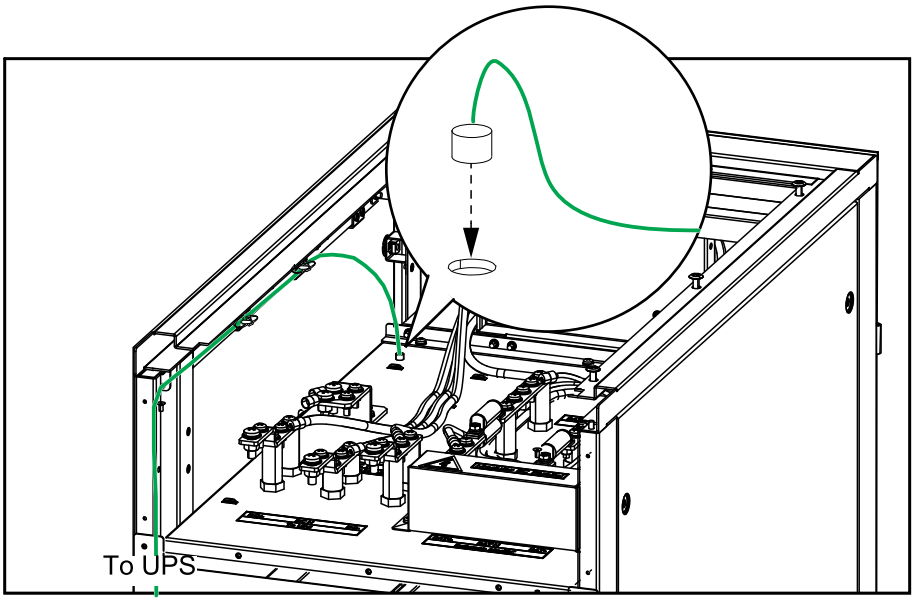
**HAZARD OF FIRE**

Position the temperature sensor as described to ensure correct temperature measurements.

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

**NOTE:** The length of the temperature sensor cable is 5.8 meter.

**Rear View of the Modular Battery Cabinet**

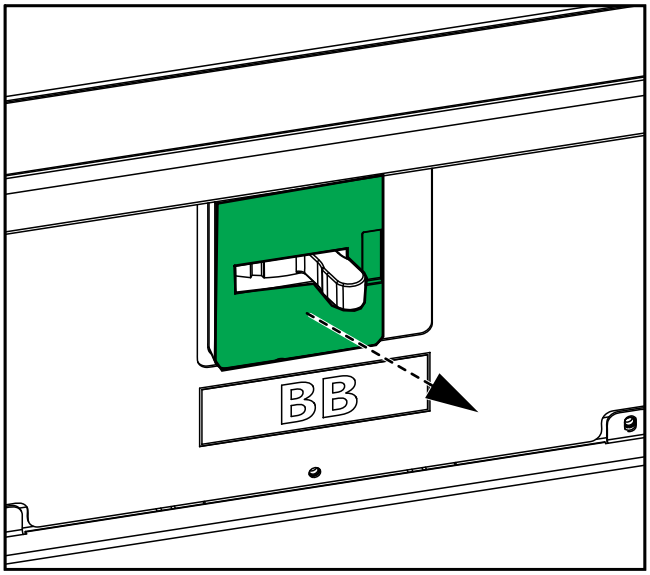



3. Connect the signal cables for the temperature sensor to the UPS dry contact terminal J4-1 (Easy UPS 3S Pro for external batteries) or J3-5 (Easy UPS 3S Pro for internal batteries).
   - **For Easy UPS 3S Pro for external batteries**: Connect to UPS dry contact terminal J4-1.

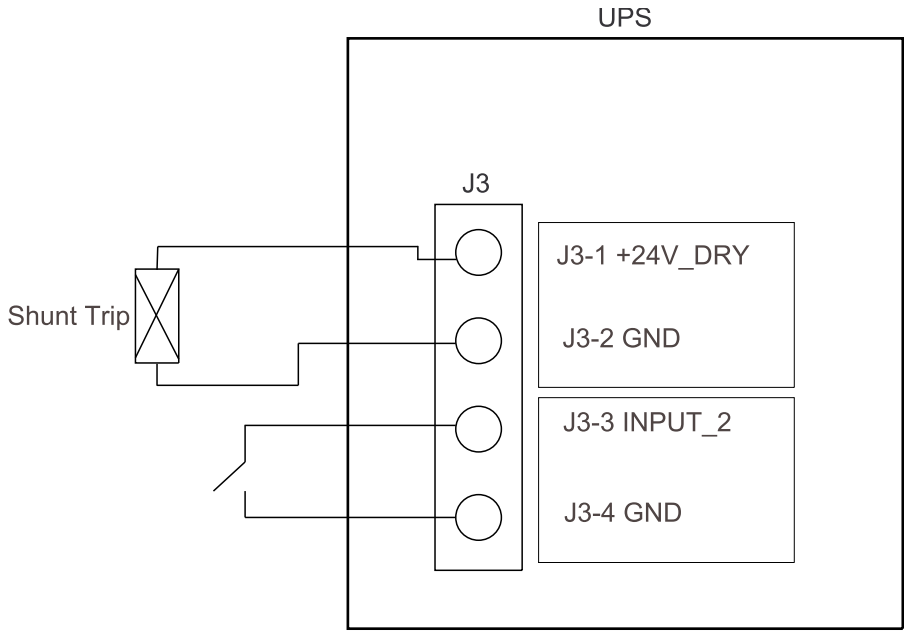

   - **For Easy UPS 3S Pro for internal batteries**: Connect to UPS dry contact terminal J3-5. Configure J3-5 as **Battery temperature sensor** via the UPS display.

4. Remove the cover from the battery circuit breaker.

**Front View of the Battery Circuit Breaker**

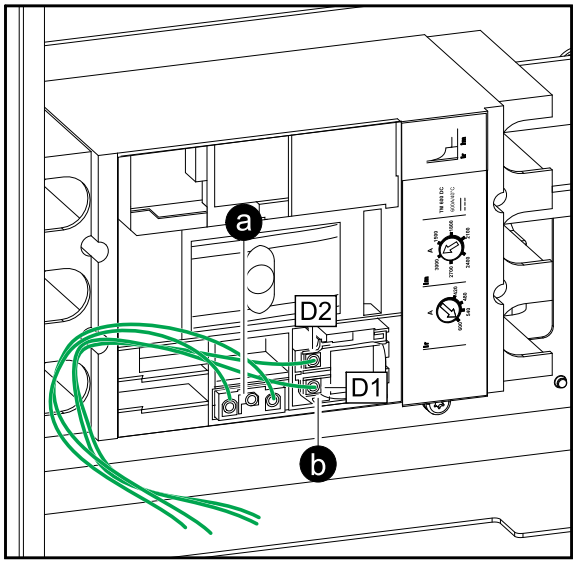


5. Connect the signal cables (not provided) to the UPS:




   a. Connect the Aux switch signal cables from the modular battery cabinet to terminals J3-3 and J3-4 in the UPS. Configure J3-3 (input dry contact 2) as **BB status** via the UPS display.

   **Front View of the Battery Circuit Breaker**



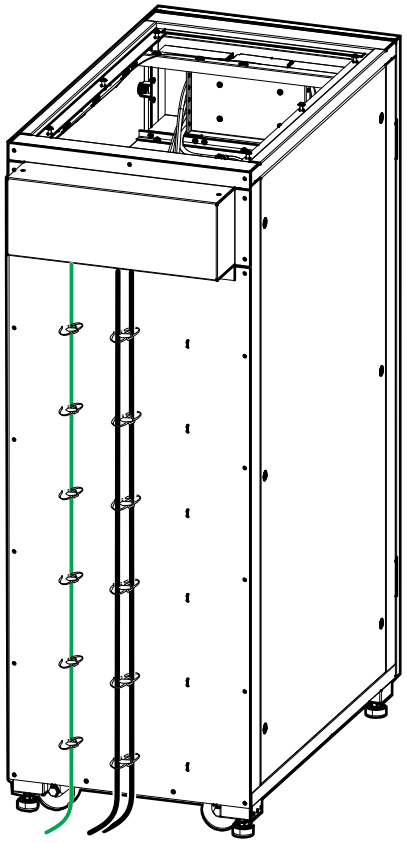

   b. Connect the shunt trip coil signal cables from the modular battery cabinet to terminals J3-1 and J3-2 in the UPS.

6. Route the signal cables from behind the battery circuit breaker and out through the conduit box of the modular battery cabinet.

7. Reinstall the cover on the battery circuit breaker.

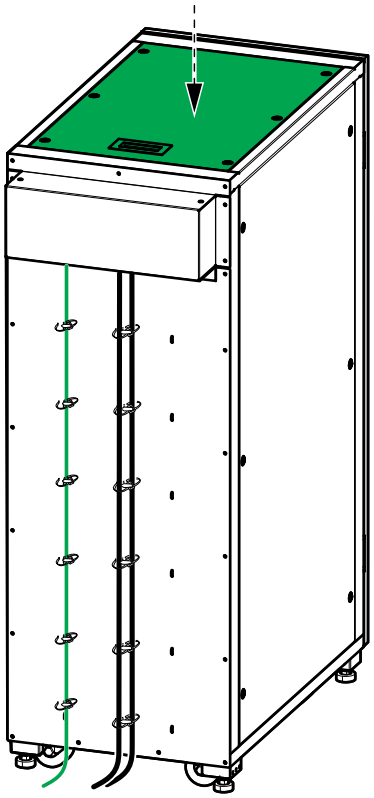
8. Fasten the signal cables to the cable reliefs.

**Rear View of the Modular Battery Cabinet**



9. Perform one of the following:
   - If parallel connection is not needed, reinstall the top cover on the modular battery cabinet.

     **Rear View of the Modular Battery Cabinet**

   - If parallel connection is needed, proceed to Connect the Modular Battery Cabinets in Parallel with Easy UPS 3S Pro, page 24.

# Connect the Modular Battery Cabinets in Parallel with Easy UPS 3S Pro

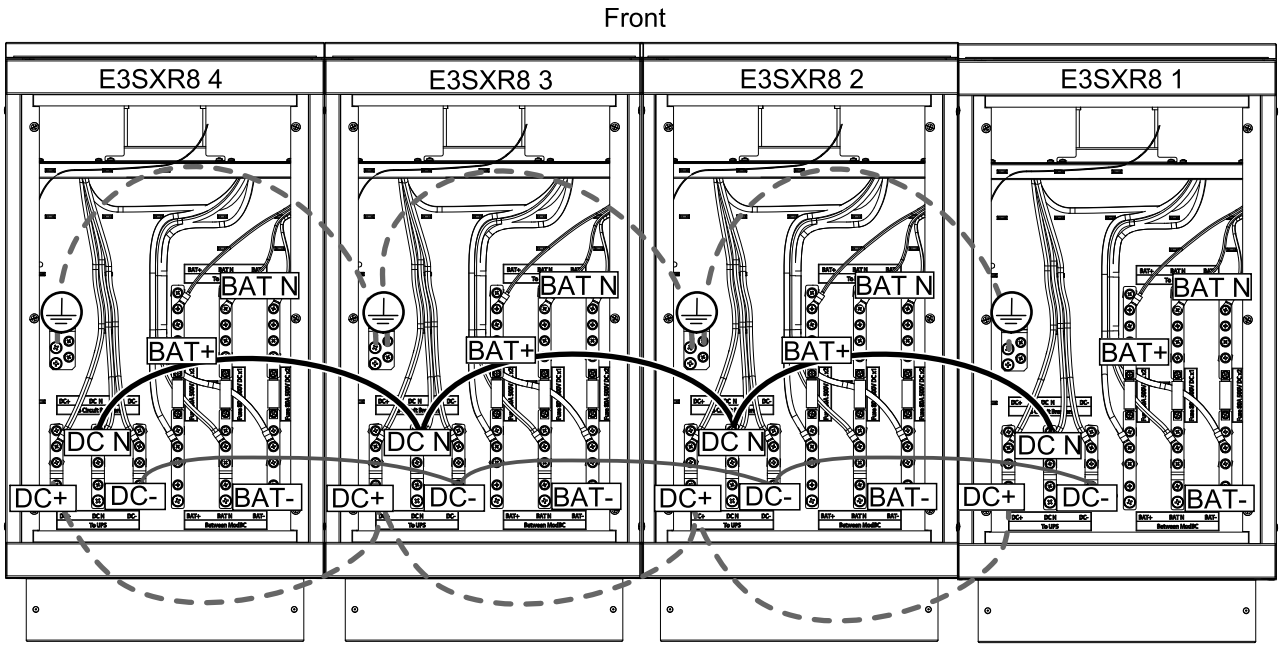
When your battery solution includes more than one E3SXR6 or E3SXR8 unit, connect the modular battery cabinets in parallel to the UPS according to one of the following methods described.

- Four E3SXR8 Units Connected in Parallel to Easy UPS 3S Pro UPS, page 24, OR
- Three E3SXR6 Units and One E3SXR8 Unit Connected in Parallel to UPS, page 26.

# Four E3SXR8 Units Connected in Parallel to Easy UPS 3S Pro UPS

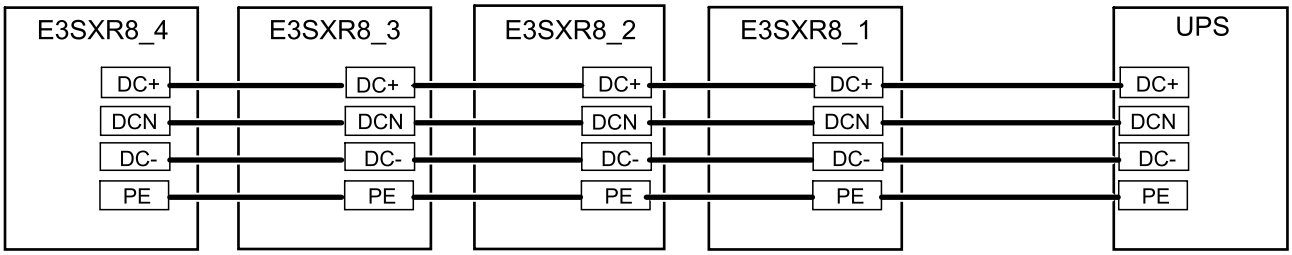
1. Connect battery cables between adjacent modular battery cabinets.
   - DC+ of modular battery cabinet to DC+ of its adjacent modular battery cabinet
   - DC N of modular battery cabinet to DC N of its adjacent modular battery cabinet
   - DC- of modular battery cabinet to DC- of its adjacent modular battery cabinet
   - PE of modular battery cabinet to PE of its adjacent modular battery cabinet

**Top View of the Modular Battery Cabinets**



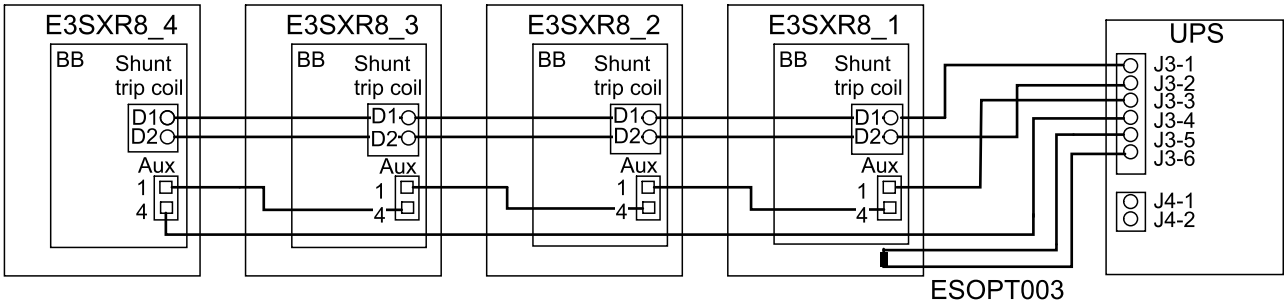
2. Connect the supplied battery cables (+, –, N) of modular battery cabinet 1 to the UPS as shown.

**Overview of Power Connection for Parallel Connection to UPS**




3. Connect the signal cables between the modular battery cabinets. Connect the signal cables for modular battery cabinet 1 to the UPS as shown.

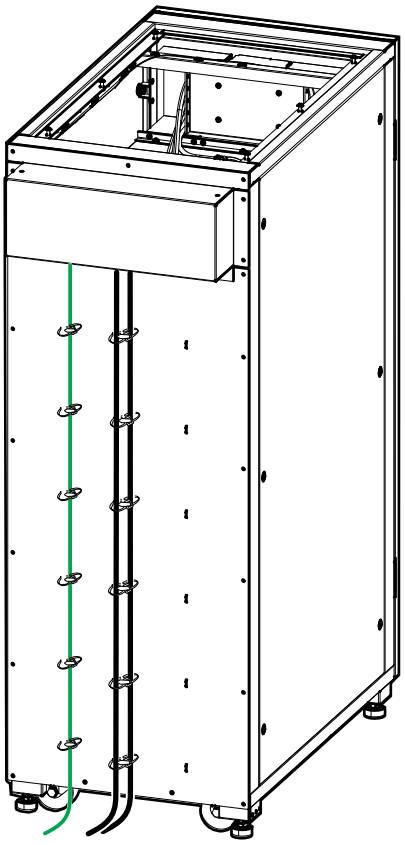
**Overview of Signal Cable Connection for Parallel Connection to UPS**




**NOTE:** For Easy UPS 3S Pro for internal batteries, terminal J4-1 is occupied by the internal temperature sensor. Therefore, it is recommended to configure J3-5 as the battery temperature sensor, as this terminal is set as the ambient temperature sensor by default.

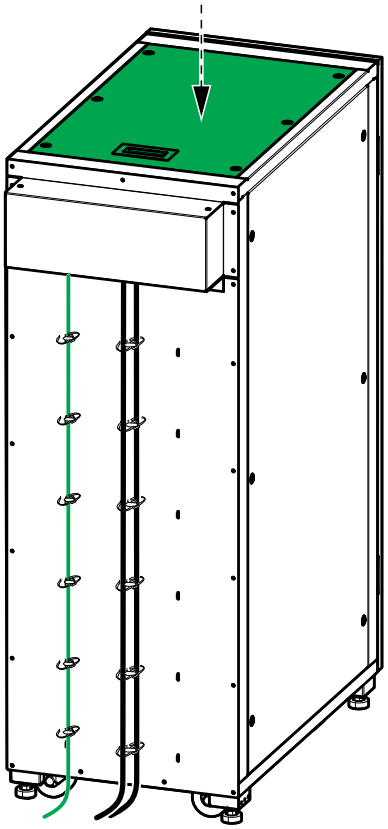
4. Fasten the cables to the cable reliefs for all modular battery cabinets.

**Rear View of Modular Battery Cabinet 1**



5. Reinstall the top cover for all modular battery cabinets.

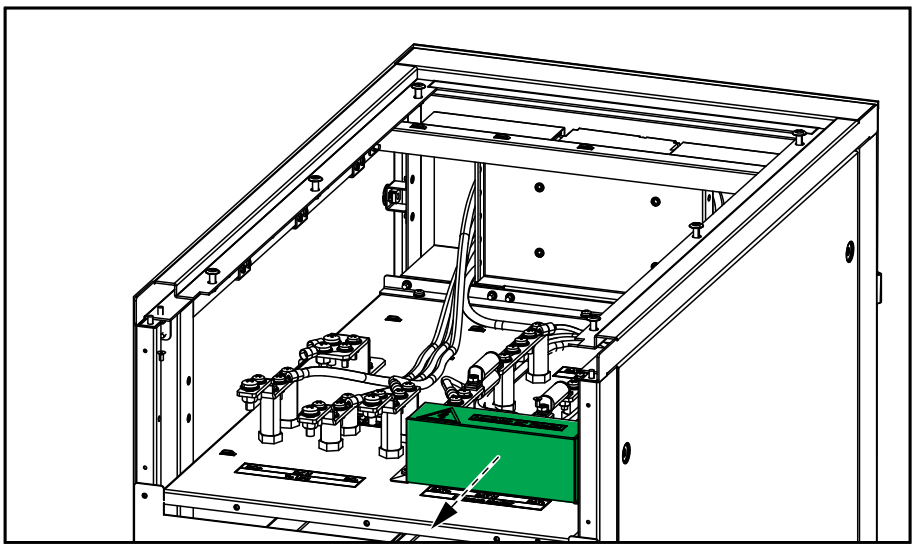
**Rear View of Modular Battery Cabinet 1**



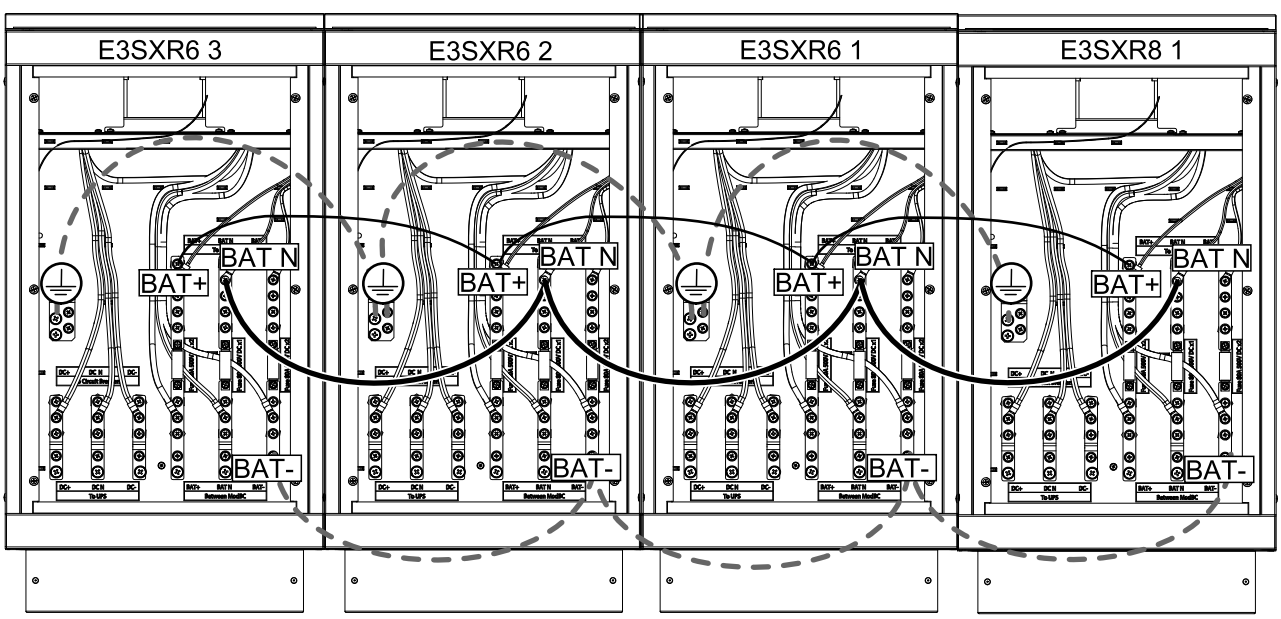
## Three E3SXR6 Units and One E3SXR8 Unit Connected in Parallel to UPS

1. Remove the protective cover from modular battery cabinet 1, 2, 3, and 4.

**Rear View of Modular Battery Cabinet 1**

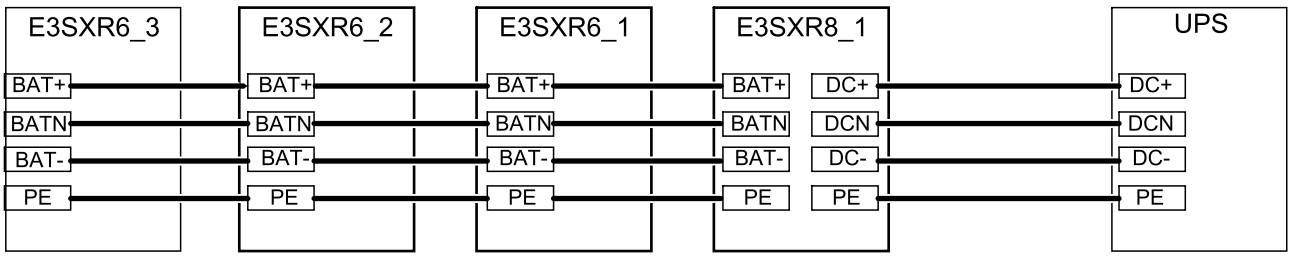


2. Connect the provided DC cables between the modular battery cabinets as shown:
   a. Use the provided PE cables WH00146 (yellow and green) to make the daisy-chain between the PE terminals.
   b. Use the provided DC- cables WH00143 (white) to make the daisy-chain between the BAT- terminals.
   c. Use the provided DC+ cables WH00141 (red) to make the daisy-chain between the BAT+ terminals.
   d. Use the provided DC N cables WH00142 (blue) to make the daisy-chain between the BAT N terminals.



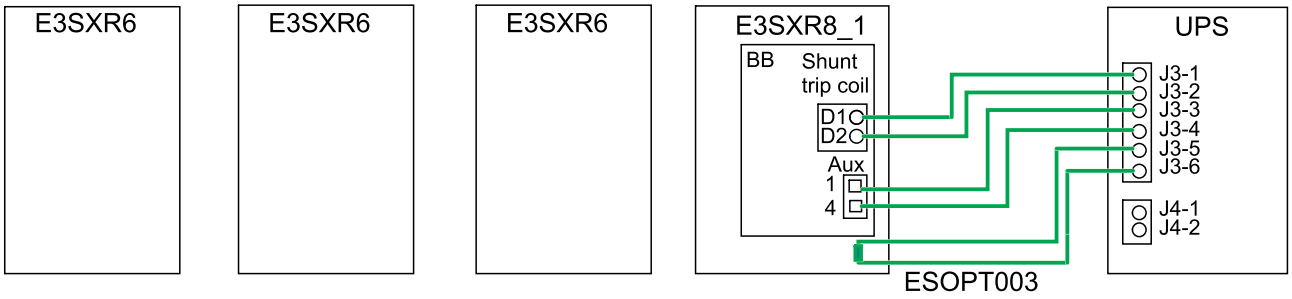

3. Connect the supplied DC cables (DC+, DC-, DC N) between modular battery cabinet 1 and the UPS as shown.

**Overview of Power Connection for Parallel Connection to UPS**



4. Connect the signal cables for modular battery cabinet 1 to the UPS as shown.

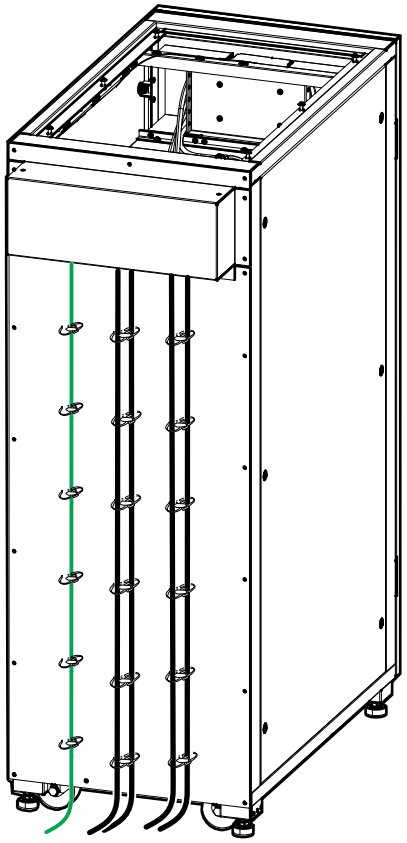
**Overview of Signal Cable Connection for Parallel Connection to UPS**




**NOTE:** For Easy UPS 3S Pro for internal batteries, terminal J4-1 is occupied by the internal temperature sensor. Therefore, it is recommended to configure J3-5 as the battery temperature sensor, as this terminal is set as the ambient temperature sensor by default.

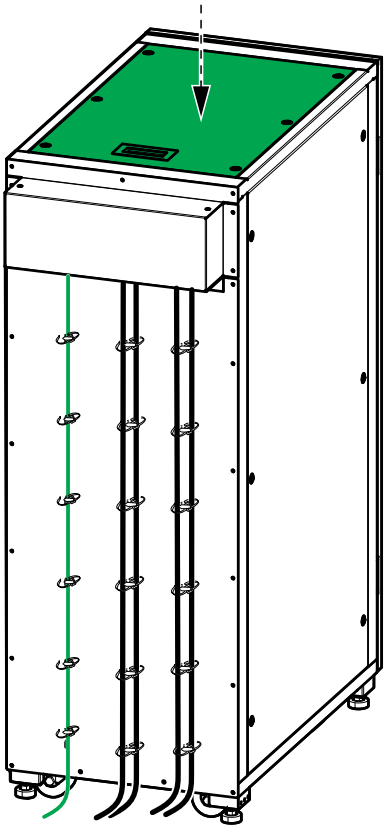
5. Fasten the cables to the cable reliefs for all modular battery cabinets.

**Rear View of Modular Battery Cabinet 1**



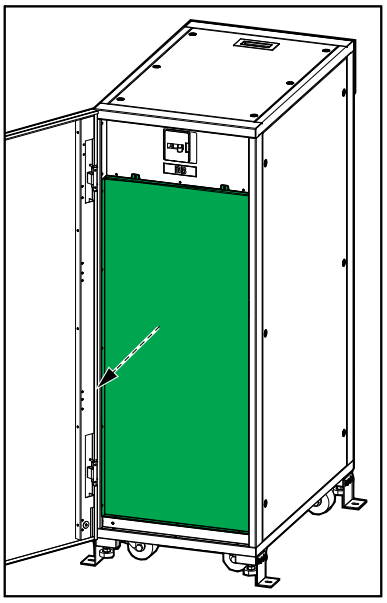
6. Reinstall the top cover for all modular battery cabinets.

**Rear View of Modular Battery Cabinet 1**

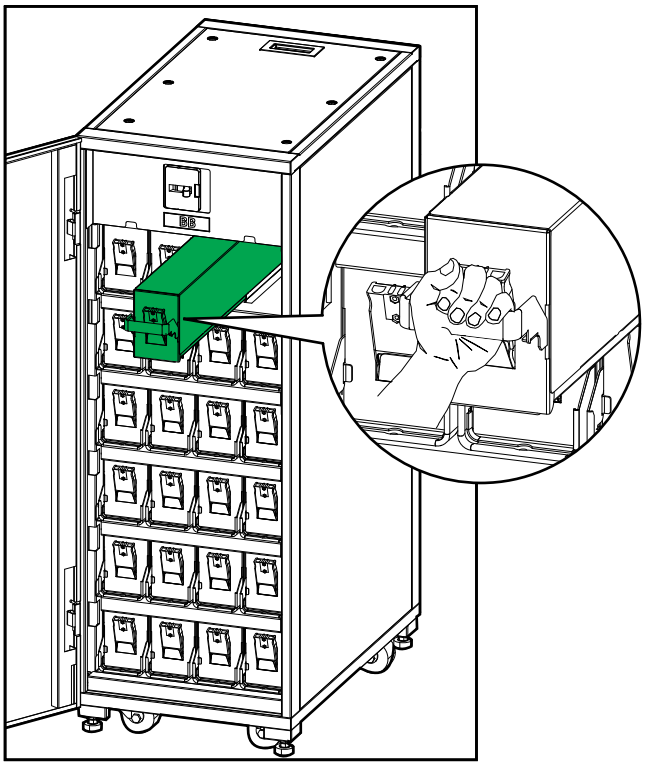


# Install Battery Modules in the Modular Battery Cabinet

1. Remove the plate in front of the battery shelves.



2. Holding the handle, install the battery modules one string at a time from the bottom and up.



**⚠CAUTION**

**HEAVY LOAD**

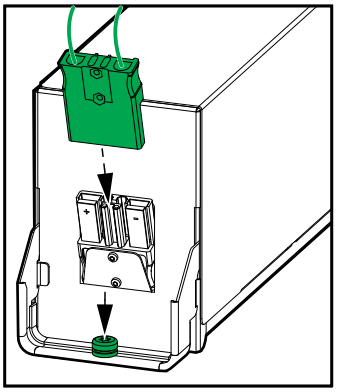
Battery modules are heavy and require two persons to lift.

- The battery module weighs 27 kg.

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

3. Push down the handle of each battery module and fasten it to the shelf with the provided screw in front of the battery module.

**Front View of Battery Module**



4. Remove the shrink tubes from the battery terminals and connect the battery terminals to the batteries.
5. Reinstall the plate in front of the battery shelves.

For battery string configuration for different UPS rating, see Battery String Configuration for Easy UPS 3S Pro, page 31 for details.

# Battery String Configuration for Easy UPS 3S Pro

| UPS rating | Minimum battery string quantity required by UPS(1) | Maximum battery string quantity supported by UPS (2) | UPS internal space for strings | Minimum battery string quantity for internal if present (3) | Minimum battery string quantity for MBC if present(4) |
|---|---|---|---|---|---|
| 10 KVA | 1 | 27 | 3 | 1 | 3 |
| 15 KVA | 1 | 27 | 3 | 1 | 3 |
| 20 KVA | 2 | 27 | 3 | 2 | 3 |
| 30 KVA | 2 | 28 | 4 | 2 | 3 |
| 40 KVA | 3 | 28 | 4 | 3 | 3 |

### 10-20 kVA UPS Battery String Configuration

| Total battery string quantity | Battery string quantity inside the UPS | Battery string quantity installed in modular battery cabinet 1 | Battery string quantity installed in modular battery cabinet 2 | Battery string quantity installed in modular battery cabinet 3 | Battery string quantity installed in modular battery cabinet 4 |
|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 0 | 0 | 0 |
| 3 | 3 | 0 | 0 | 0 | 0 |
| 4 | 0 | 4 | 0 | 0 | 0 |
| 5 | 0 | 5 | 0 | 0 | 0 |
| 6 | 0 | 6 | 0 | 0 | 0 |
| 7 | 3 | 4 | 0 | 0 | 0 |
| 8 | 3 | 5 | 0 | 0 | 0 |
| 9 | 3 | 6 | 0 | 0 | 0 |

(1) The minimum battery string quantity is based on a minimum 5-minute runtime at UPS full load.
(2) The maximum battery string quantity is defined by the UPS DC terminal short-circuit withstand capacity (Icc = 16 kA). The charging capacity shall be sufficient to recharge the batteries and prevent battery damage caused by self-discharge and irreversible plate sulfation.
(3) From a fault protection perspective, the internal battery string quantity can be 0 or meet the specified minimum requirement.
(4) From a fault protection perspective, the modular battery string quantity can be 0 or meet the specified minimum requirement.

### 10-20 kVA UPS Battery String Configuration (Continued)

| | | | | | |
|---|---|---|---|---|---|
| 10 | 3 | 3 | 4 | 0 | 0 |
| 11 | 3 | 4 | 4 | 0 | 0 |
| 12 | 3 | 5 | 4 | 0 | 0 |
| 13 | 3 | 6 | 4 | 0 | 0 |
| 14 | 3 | 6 | 5 | 0 | 0 |
| 15 | 3 | 6 | 6 | 0 | 0 |
| 16 | 3 | 4 | 4 | 5 | 0 |
| 17 | 3 | 5 | 4 | 5 | 0 |
| 18 | 3 | 5 | 5 | 5 | 0 |
| 19 | 3 | 6 | 5 | 5 | 0 |
| 20 | 3 | 6 | 6 | 5 | 0 |
| 21 | 3 | 6 | 6 | 6 | 0 |
| 22 | 3 | 5 | 5 | 5 | 4 |
| 23 | 3 | 5 | 5 | 5 | 5 |
| 24 | 3 | 6 | 5 | 5 | 5 |
| 25 | 3 | 6 | 6 | 5 | 5 |
| 26 | 3 | 6 | 6 | 6 | 5 |
| 27 | 3 | 6 | 6 | 6 | 6 |

### 30-40 kVA UPS Battery String Configuration

| Total battery string quantity | Battery string quantity inside the UPS | Battery string quantity installed in modular battery cabinet 1 | Battery string quantity installed in modular battery cabinet 2 | Battery string quantity installed in modular battery cabinet 3 | Battery string quantity installed in modular battery cabinet 4 |
|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0 | 0 | 0 | 0 |
| 3 | 3 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 0 | 0 |
| 5 | 0 | 5 | 0 | 0 | 0 |
| 6 | 0 | 6 | 0 | 0 | 0 |
| 7 | 3 | 4 | 0 | 0 | 0 |
| 8 | 4 | 4 | 0 | 0 | 0 |
| 9 | 4 | 5 | 0 | 0 | 0 |
| 10 | 4 | 3 | 3 | 0 | 0 |
| 11 | 4 | 4 | 3 | 0 | 0 |
| 12 | 4 | 5 | 3 | 0 | 0 |
| 13 | 4 | 6 | 3 | 0 | 0 |
| 14 | 4 | 6 | 4 | 0 | 0 |
| 15 | 4 | 6 | 5 | 0 | 0 |
| 16 | 4 | 4 | 4 | 4 | 0 |
| 17 | 4 | 5 | 4 | 4 | 0 |
| 18 | 4 | 5 | 5 | 4 | 0 |
| 19 | 4 | 6 | 5 | 4 | 0 |
| 20 | 4 | 6 | 6 | 4 | 0 |
| 21 | 4 | 6 | 6 | 5 | 0 |
| 22 | 4 | 5 | 5 | 5 | 3 |
| 23 | 4 | 5 | 5 | 5 | 5 |

**30-40 kVA UPS Battery String Configuration (Continued)**

| | | | | | |
|---|---|---|---|---|---|
| 24 | 4 | 6 | 5 | 5 | 4 |
| 25 | 4 | 6 | 6 | 5 | 4 |
| 26 | 4 | 6 | 6 | 6 | 4 |
| 27 | 4 | 6 | 6 | 6 | 5 |
| 28 | 4 | 6 | 6 | 6 | 6 |

# Decommission or Move the Modular Battery Cabinet to a New Location

1. Lockout/Tagout the battery disconnect devices in the OFF (open) position.
2. Remove the plate in front of the battery shelves.
3. Disconnect the battery terminals from the front of all the battery modules.

**⚠⚠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:

- 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.
- 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.
- 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.
- Set the battery disconnect device BB to the open (OFF) position before starting this procedure.

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

4. Remove the battery modules from the shelves. Recycle or reuse the battery modules as appropriate.

**⚠CAUTION**

**HEAVY LOAD**

Battery modules are heavy and require two persons to lift.

- The battery module weighs 27 kg.

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

**⚠⚠DANGER**

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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.

- Recycle lead-acid batteries correctly. Batteries contain lead and dilute sulfuric acid.
- Dispose of the batteries in accordance with local and national regulations.

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

**⚠WARNING**

**RISK OF EQUIPMENT DAMAGE**

- Store the battery modules at an ambient temperature of -15 to 40 °C.
- Store the battery modules in their original protective packaging.
- Battery modules stored at -15 to 25 °C must be recharged every six months to avoid damages from deep discharging. Battery modules stored at over 25 °C must be recharged at shorter intervals.

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

5. Reinstall the plate in front of the battery shelves.
6. Disconnect and remove the DC cables and PE cables from the modular battery cabinet. See Connect the Power Cables between the Easy UPS 3S Pro UPS and the Modular Battery Cabinet, page 15 for details.
7. Disconnect the signal cables from the modular battery cabinet. See Connect the Signal Cables between the Easy UPS 3S Pro UPS and the Modular Battery Cabinet, page 19 for details.
8. **For parallel connection only**: Disconnect and remove the DC cables and PE cables between the modular battery cabinets. Disconnect and remove the signal cables between the UPS and modular battery cabinet 1. See Connect the Modular Battery Cabinets in Parallel with Easy UPS 3S Pro, page 24 for details.

9. You can now move the modular battery cabinet by rolling it over the floor on the casters.

**⚠WARNING**

**TIPPING HAZARD**

- The casters of the cabinet are exclusively for transport on flat, even, hard, and horizontal surfaces.
- The casters of the 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 cabinet.

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

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

**⚠WARNING**

**TIPPING HAZARD**

For transport over longer distances or in conditions that are not suitable for the casters of the 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 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:

- Schneider Electric recommends to reuse the original shipping pallet in combination with the original transportation brackets for long-distance transportation, if in undamaged condition. If the original shipping pallet is not available or is damaged, use an appropriate pallet suitable for the weight of the UPS with appropriate dimensions.
  - Weight for the modular battery cabinet: 149 kg
  - Appropriate pallet dimension for modular battery cabinet: minimum 1020 mm x 670 mm
- Use appropriate means of fixation to mount the cabinet to the pallet. Follow the procedures in the receiving and unpacking manual to fix the cabinet to the pallet when using the original pallet and transportation brackets.

**⚠DANGER**

**TIPPING HAZARD**

- The 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 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.**

11. Perform one of the following:
    - Decommission the modular battery cabinet, OR
    - Move the modular battery cabinet to a new location to install it.
12. **Only for installing the modular battery cabinet in new a location**: Reinstall the batteries in the modular battery cabinet after moving it to the new location. Follow the installation manual to install battery interconnections, signal cables, power cables, etc. See Installation Procedure, page 14 for installation overview.

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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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