

# Easy UPS 3S Glanding Box — E3SOPT011, E3SOPT012, E3SOPT013, E3SOPT017, E3SOPT019

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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 product must be installed according to the specifications and requirements as defined by Schneider Electric. It concerns in particular the external and internal protections (upstream breakers, battery breakers, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- After the UPS system has been electrically wired, do not start up the system. Start-up must only be performed by Schneider Electric.

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

## DANGER

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

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

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

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

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

## DANGER

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

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

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

## DANGER

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

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

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

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

## DANGER

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

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

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

## 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.**

## NOTICE

### RISK OF EQUIPMENT DAMAGE

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

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

## 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.**

## ⚠ DANGER

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

In systems where backfeed protection is not part of the standard design, an automatic isolation device (backfeed protection option or other device meeting the requirements of IEC/EN 62040–1 or UL1778 5th Edition – depending on which of the two standards apply to your local area) must be installed to prevent hazardous voltage or energy at the input terminals of the isolation device. The device must open within 15 seconds after the upstream power supply fails and must be rated according to the specifications.

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

When the UPS input is connected through external isolators that, when opened, isolate the neutral or when the automatic backfeed isolation is provided external to the equipment or is connected to an IT power distribution system, a label must be fitted at the UPS input terminals, and on all primary power isolators installed remote from the UPS area and on external access points between such isolators and the UPS, by the user, displaying the following text (or equivalent in a language which is acceptable in the country in which the UPS system is installed):

## **⚠ 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.**

## **⚠ DANGER**

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

- Always perform correct Lockout/Tagout before working on the UPS.
- A UPS with autostart enabled will automatically restart when the mains supply returns.
- If autostart is enabled on the UPS, a label must be added on the UPS to warn about this functionality.

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

Add the label below on the UPS if autostart has been enabled:

## **⚠ DANGER**

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

Autostart is enabled. The UPS will automatically restart when the mains supply returns.

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

## **⚠ DANGER**

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

This product can cause a DC current in the PE conductor. If a residual current-operated protective device (RCD) is used for protection against electrical shock, only an RCD of Type B is allowed on the supply side of this product.

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

## Model List

Commercial reference	Description
E3SOPT011	Easy UPS 3S glanding box for 10 – 15 kVA 3:1 and 3:3 UPS for external batteries
E3SOPT012	Easy UPS 3S glanding box for 20 – 30 kVA 3:3 UPS for external batteries
E3SOPT013	Easy UPS 3S glanding box for 20 – 30 kVA 3:1 UPS for external batteries
E3SOPT017	Easy UPS 3S glanding box for 40 kVA 3:3 UPS for external batteries
E3SOPT019	Easy UPS 3S glanding box for 30 – 40 kVA 3:1 and 3:3 UPS for internal batteries

## Applicable Products

Glanding box commercial reference	Applicable UPS commercial reference	UPS dimensions Height x Weight x Depth (mm)
E3SOPT011	E3SUPS10KH	531 x 250 x 664
	E3SUPS15KH	531 x 250 x 664
	E3SUPS10K31	531 x 250 x 664
	E3SUPS15K31	531 x 250 x 664
E3SOPT012	E3SUPS20KH	769 x 250 x 694
	E3SUPS30KH	769 x 250 x 694
E3SOPT013	E3SUPS20K31	769 x 250 x 694
	E3SUPS30K31	769 x 250 x 694
E3SOPT017	E3SUPS40KH	769 x 250 x 843
E3SOPT019	E3SUPS30K31B	1400 x 380 x 940
	E3SUPS40KHB	1400 x 380 x 940
	E3SUPS30KHB	1400 x 380 x 940

## Glanding Box Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3SOPT011	1.1	91	92	250
E3SOPT012	2.0	335	147	132
E3SOPT013	1.4	228	200	128
E3SOPT017	1.2	169	215	114
E3SOPT019	1.3	500	298	40

## Glanding Box Shipping Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3SOPT011	1.8	385	250	180
E3SOPT012	2.7	385	250	180
E3SOPT013	2.1	385	250	180
E3SOPT017	1.9	385	250	180
E3SOPT019	2.3	552	337	107

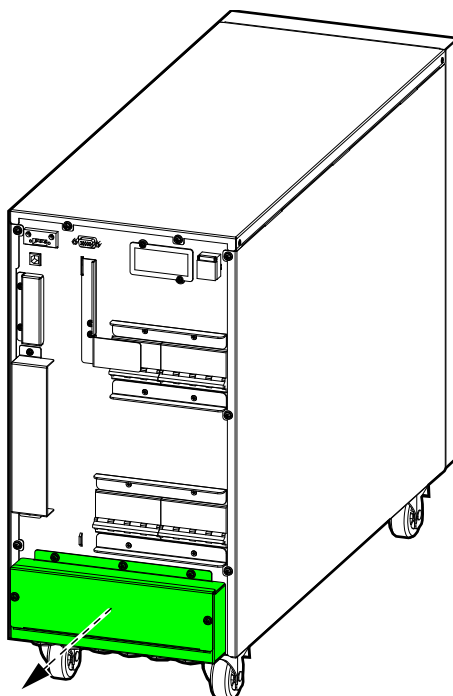
## Torque Specifications

Bolt size	Torque
M4	1.2 Nm
M5	2.3 Nm
M6	4.5 Nm



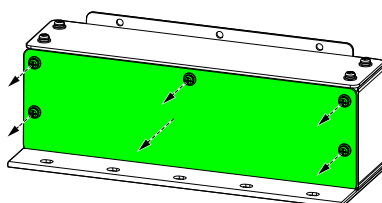
# Install E3SOPT011 on Easy 3S UPS E3SUPS10KH, E3SUPS15KH, E3SUPS10K31, E3SUPS15K31

1. Remove the existing conduit box from the UPS.



2. Remove the front gland plate from the glanding box E3SOPT011.

## Front View of Glanding Box E3SOPT011



3. Drill/punch holes for power cables/conduits in the front gland plate. Install conduits (not provided), if applicable.

## ⚡⚠ DANGER

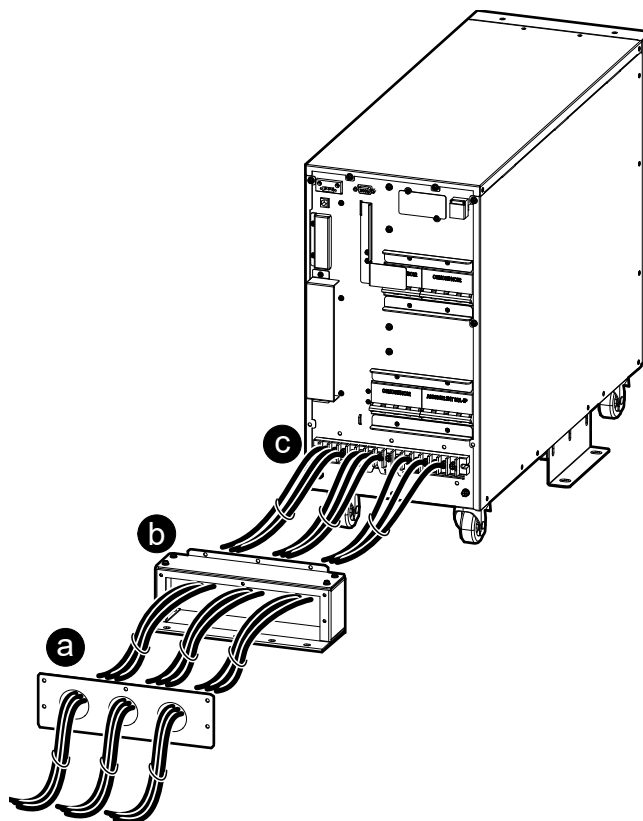
### HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

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

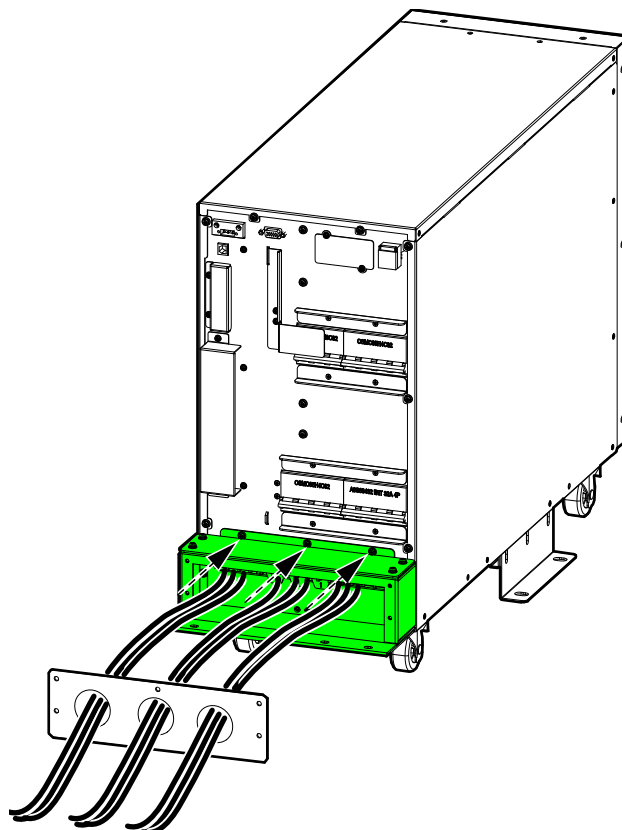
**Failure to follow these instructions will result in death or serious injury.**

4. Connect the power cables:

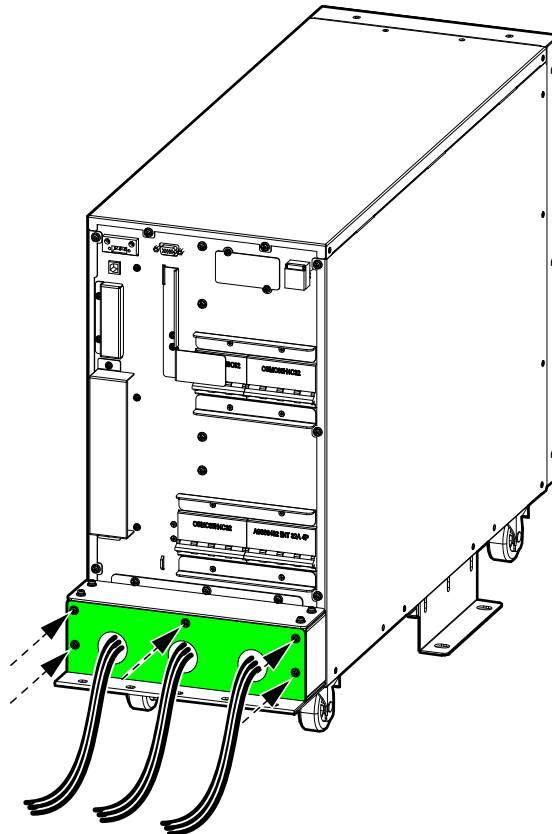
- a. Route the power cables through the front gland plate.
- b. Route the power cables through the glanding box.
- c. Connect the power cables to the power terminals on the UPS according to the UPS installation manual.



5. Install the glanding box on the UPS. Torque to 1.2 Nm.

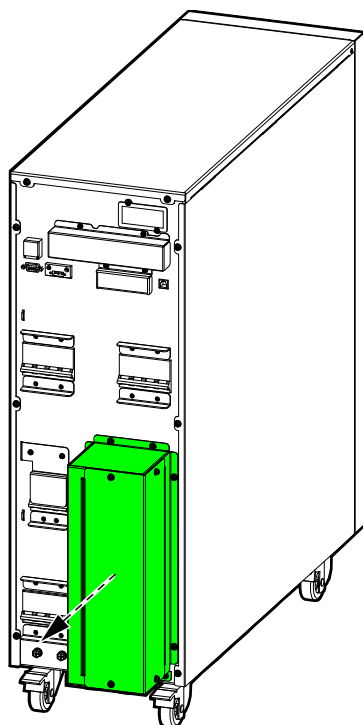


6. Reinstall the front gland plate on the glanding box.



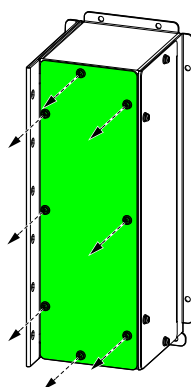
# Install E3SOPT012 on Easy UPS 3S E3SUPS20KH, E3SUPS30KH

1. Remove the existing conduit box from the UPS.



2. Remove the front gland plate from the glanding box E3SOPT012.

## Front View of Glanding Box E3SOPT012



3. Drill/punch holes for power cables/conduits in the front gland plate. Install conduits (not provided), if applicable.

## **⚠️⚠️ DANGER**

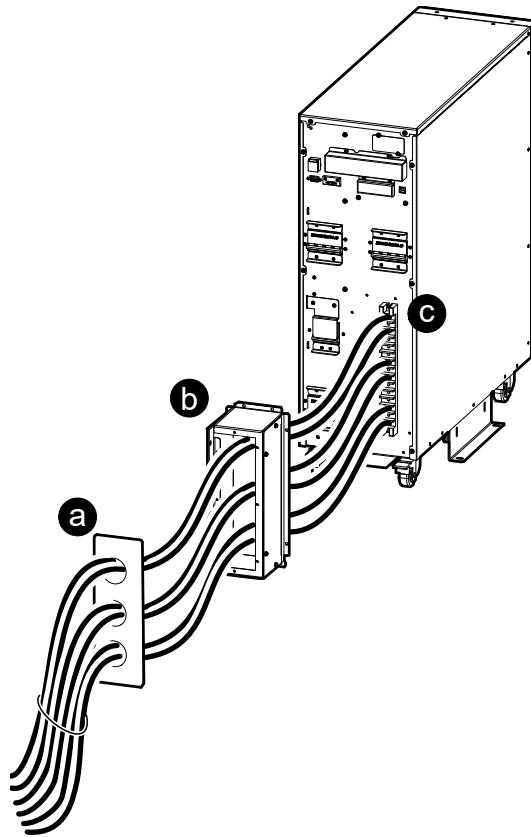
### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

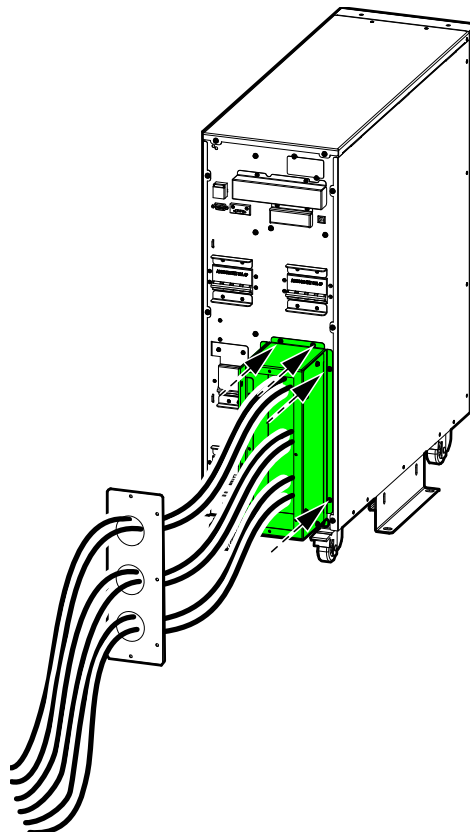
**Failure to follow these instructions will result in death or serious injury.**

4. Connect the power cables:

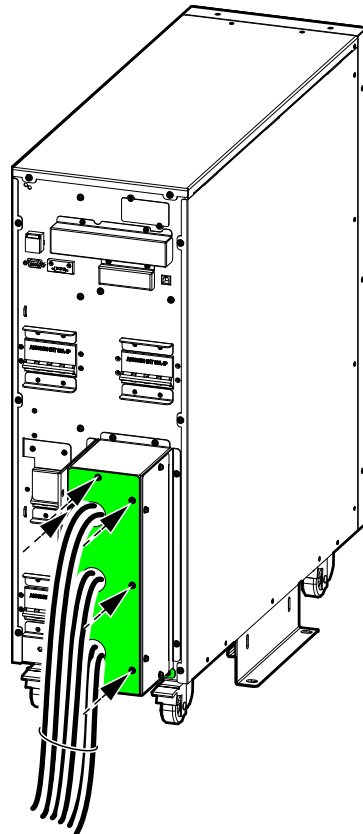
- a. Route the power cables through the front gland plate.
- b. Route the power cables through the glanding box.
- c. Connect the power cables to the power terminals on the UPS according to the UPS installation manual.



5. Install the glanding box on the UPS. Torque to 1.2 Nm.

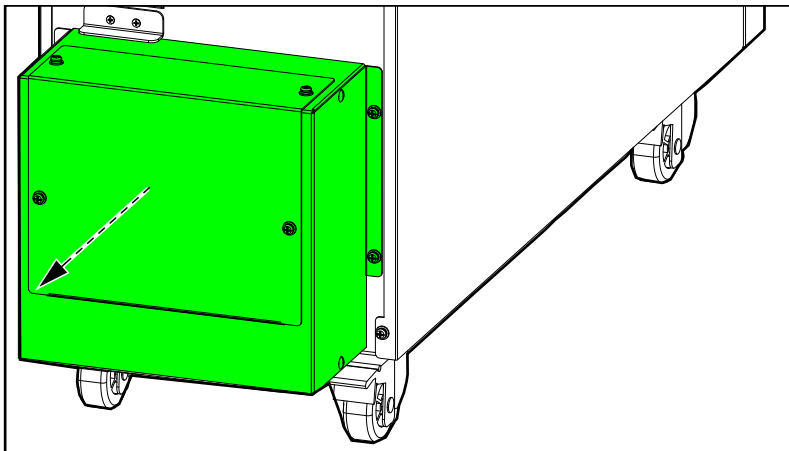


6. Reinstall the front gland plate on the glanding box.



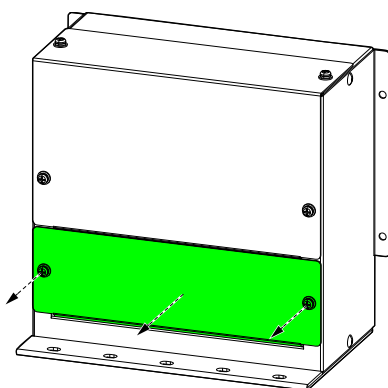
# Install E3SOPT013 on Easy UPS 3S E3SUPS20K31, E3SUPS30K31

1. Remove the existing conduit box from the UPS.



2. Remove the front gland plate from the glanding box E3SOPT013.

## Front View of Glanding Box E3SOPT013



3. Drill/punch holes for power cables/conduits in the front gland plate. Install conduits (not provided), if applicable.

## **⚡ ⚠ DANGER**

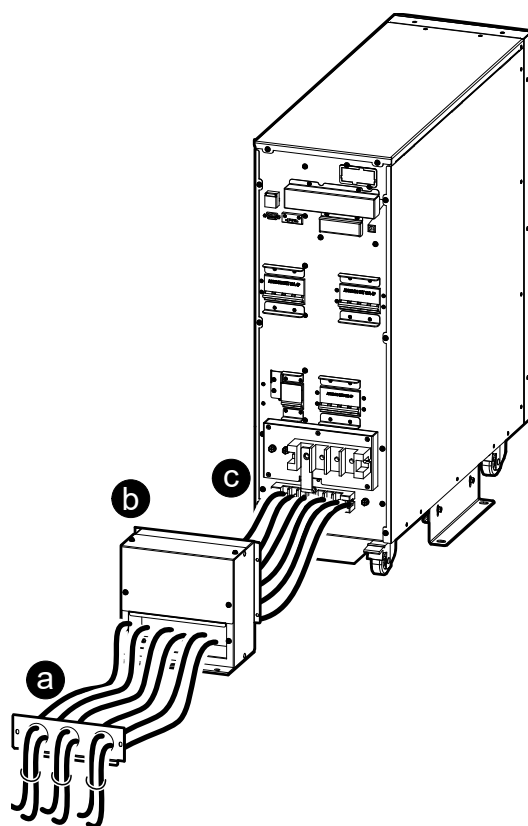
### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

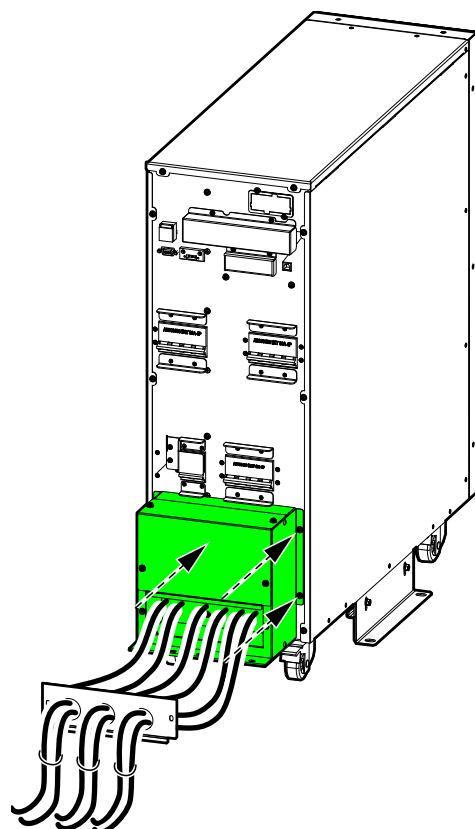
**Failure to follow these instructions will result in death or serious injury.**

4. Connect the power cables:

- a. Route the power cables through the front gland plate.
- b. Route the power cables through the glanding box.
- c. Connect the power cables to the power terminals on the UPS according to the UPS installation manual.

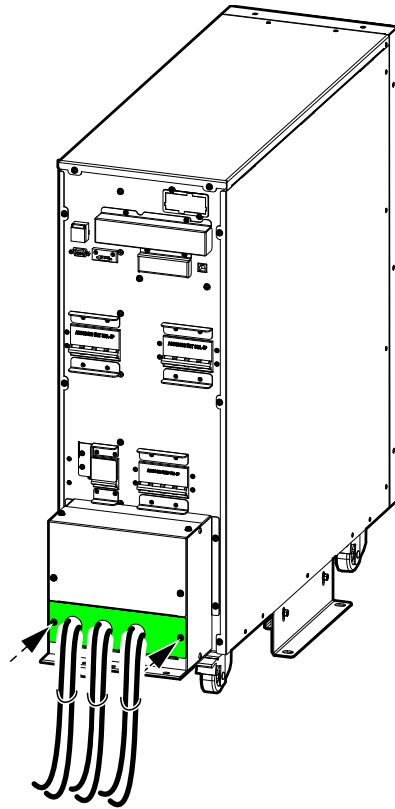


5. Install the glanding box on the UPS. Torque to 1.2 Nm.



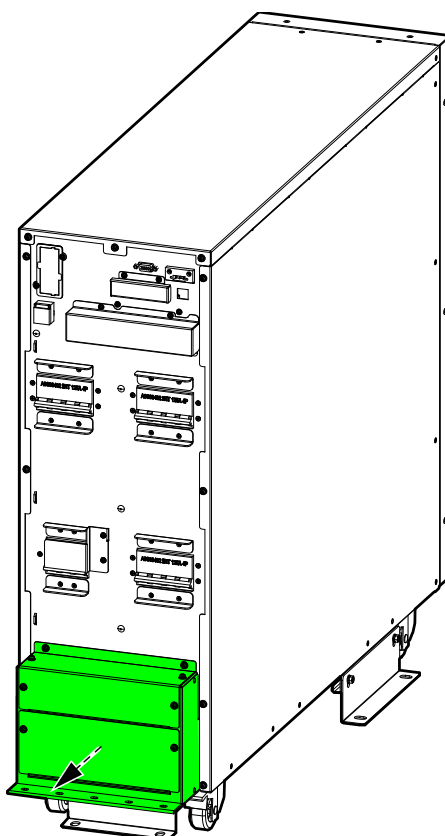


6. Reinstall the front gland plate on the glanding box.



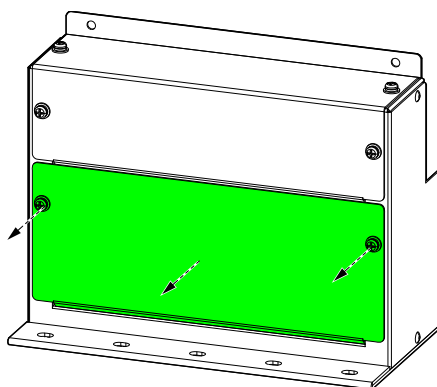
## Install E3SOPT017 on Easy UPS 3S E3SUPS40KH

1. Remove the existing conduit box from the UPS.



2. Remove the front gland plate from the glanding box E3SOPT017.

### Front View of Glanding Box E3SOPT017



3. Drill/punch holes for power cables/conduits in the front gland plate. Install conduits (not provided), if applicable.

### **⚠️⚠️ DANGER**

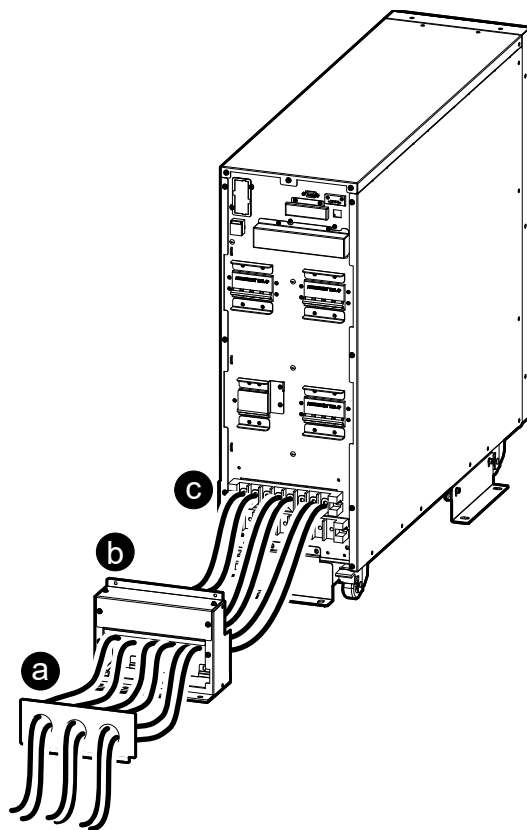
#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

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

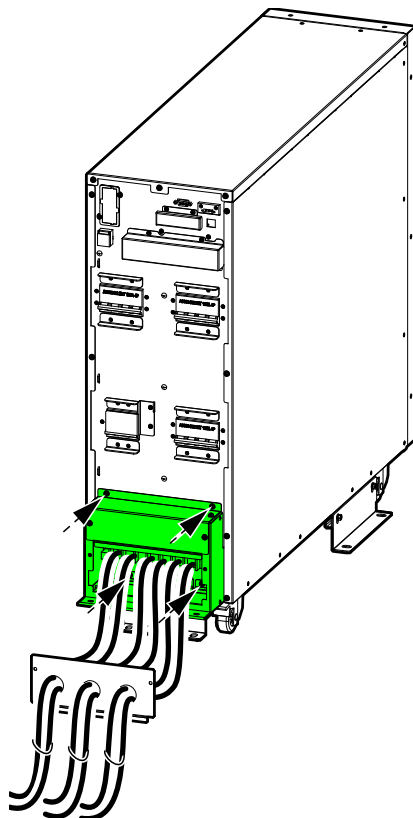
**Failure to follow these instructions will result in death or serious injury.**

4. Connect the power cables:

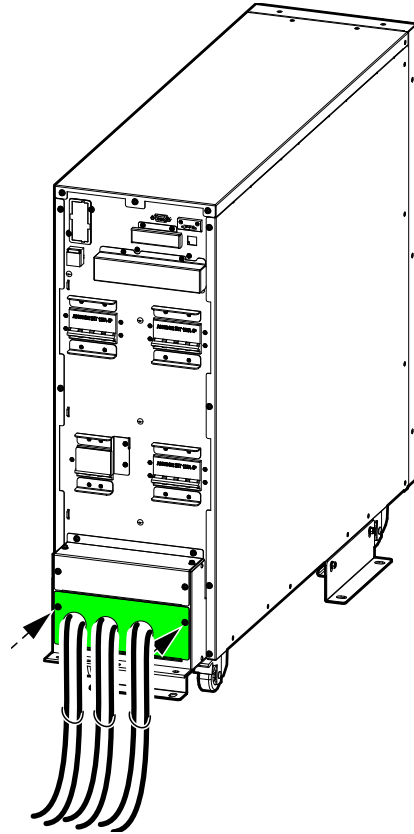
- a. Route the power cables through the front gland plate.
- b. Route the power cables through the glanding box.
- c. Connect the power cables to the power terminals on the UPS according to the UPS installation manual.



5. Install the glanding box on the UPS. Torque to 1.2 Nm.

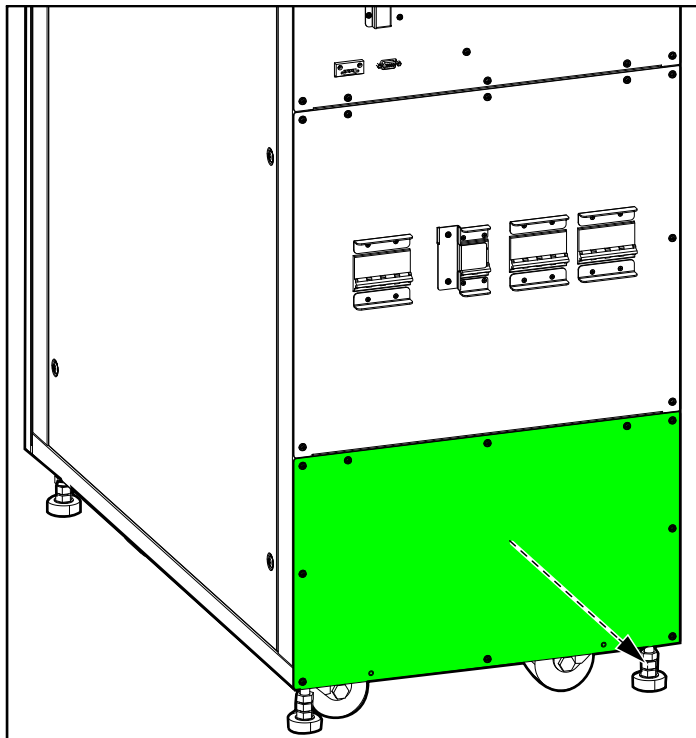


6. Reinstall the front gland plate on the glanding box.



## Install E3SOPT019 on Easy UPS 3S E3SUPS30K31B, E3SUPS40KHB, E3SUPS30KHB

1. Remove the existing lower plate from the UPS.



2. Drill/punch holes for power cables/conduits in the lower part of the gland plate E3SOPT019. Install conduits (not provided), if applicable.

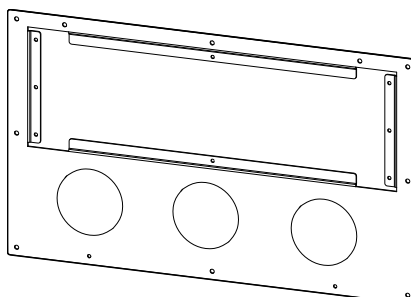
### **⚡⚠ DANGER**

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

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

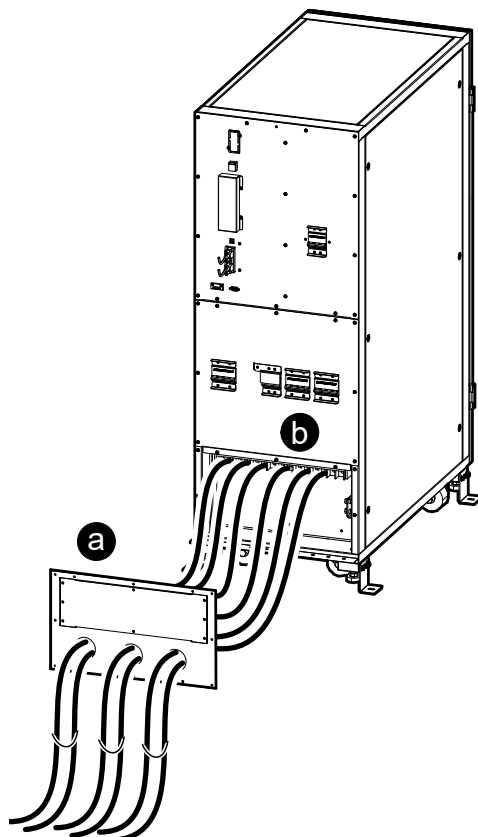
**Failure to follow these instructions will result in death or serious injury.**

#### **Front View of Glanding Box E3SOPT019**



3. Connect the power cables:

- a. Route the power cables through the gland plate.
- b. Connect the power cables to the power terminals on the UPS according to the UPS installation manual.



4. Install the gland plate on the UPS. Torque to 1.2 Nm.

