

DCB-8- Installation Manual

Safety Instructions

Please read this manual carefully before installing and using the combiner box. Failure to follow the safety precautions in this manual may result in personal injury or equipment damage.

DANGER

Battery strings may carry hazardous voltage and current. Accidental contact can cause fatal electric shock or severe burns. When wiring the combiner box, observe the following safety precautions:

- Before wiring, disconnect the battery string from the system.
- Before wiring, make sure the positive and negative battery terminals are correctly identified. It is recommended to use a multimeter to measure and confirm the positive and negative terminals. Otherwise, equipment damage or personal injury may occur.
- Follow all safety instructions provided by the equipment manufacturer.

Damaged equipment or system malfunctions may cause electric shock or fire.

- Before operation, visually inspect the equipment for damage or other hazardous conditions.
- Check that all external devices and circuit connections are in a safe condition.

Ensure that the device is in a safe condition before operation.

Touching the internal wiring terminals may result in electric shock, serious injury, or fire.

- Do not touch terminals or conductors connected to the inverter or battery string.
- Observe all instructions and safety documentation related to combiner box connections.

Danger of electric shock inside the product.

- Observe all warning labels on the product.
- Follow the safety precautions in this manual and in other related documents for this equipment.

The battery polarity must be connected correctly. Otherwise, operators may be exposed to the risk of fatal electric shock in the event of a malfunction, and the equipment may be damaged if the polarity is reversed.

After operation, ensure that the enclosure door is locked.

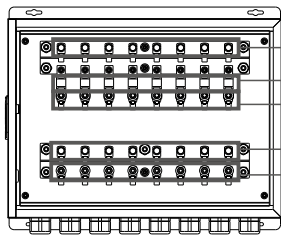
WARNING

Incorrect cable connections can cause damage to battery strings, the combiner box, and the inverter. When wiring, the following precautions must be observed:

- Wire according to the wiring diagram.
- Before wiring, check the battery polarity to ensure it matches the combiner box requirements.
- Before wiring, identify the positive and negative terminals of each battery string.
- Only qualified personnel are permitted to install, operate, and connect this product.
- All operations and connections must comply with the relevant national and local standards.
- Warning labels must remain clearly visible. Replace any damaged labels immediately.
- When wiring, ensure that all terminal screws in the combiner box are securely tightened. If the conductor is not fully inserted and clamped securely, prolonged operation may cause terminal overheating or burning. Use flame-retardant stranded copper conductors only.
- The sealing nut of each cable gland must be fully tightened; otherwise, water ingress may occur and damage the combiner box.

Before inspecting or replacing fuses, ensure that the circuit is not under load. Fuses must be installed or removed only when the circuit is not under load, to avoid arcing, equipment damage, or personal injury.

Product Overview



- Battery Positive Terminal Output
- Fuse
- Battery Positive Terminal Input
- Battery Negative Terminal Output
- Battery Negative Terminal Input

Terminal Connections

Terminal Tightening Torque Requirements.
All terminals must be tightened using a torque wrench.

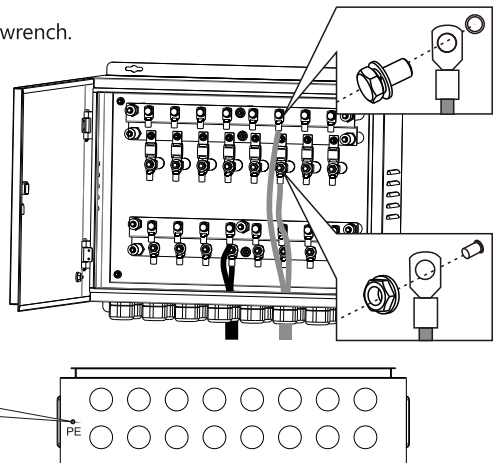
Terminal Type	Bolt Size	Torque
Input/Output Power Terminal	M8	12 N·m
Ground Terminal	M5	4 N·m
Fuse Holder Terminal	M6	6 N·m

⚠ Important:

- Insufficient torque may cause overheating or burning.
- Excessive torque may damage the terminal.
- The equipment must be properly grounded.

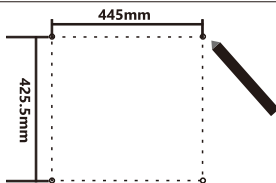
Ground Terminal (PE)

The equipment must be properly grounded.



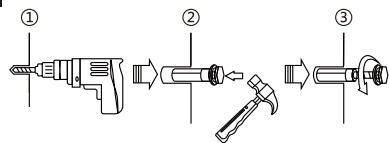
Installation

1



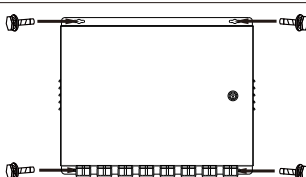
Mark the mounting hole positions on the wall according to the dimensions shown in the diagram.

2



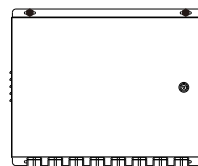
Use a hammer drill to make four mounting holes in the wall, then insert four M6 × 60 expansion bolts.

3



Remove the screw from the expansion anchor, pass it through the mounting lug of the combiner box, and then tighten it into the anchor.

4



Final installation view.