



Support Kit manual

SolarEdge CSS-OD Replacement of Fire Extinguishing Controller

Version 1.0

February 2026

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Version	Date	Description
Version 1.0	February 2026	Initial release

Required tools and materials

- Insulated small (M2) Phillips head screwdriver
- Insulated Voltmeter
- Insulated and anti-static gloves
- Insulated shoes

Before you begin

The system has two versions: the On-grid and the Backup Interface (BUI). The procedure for shutting down the system differs depending on the installed system.



WARNING

Danger due to electric shock or fire hazard! Installation, commissioning, or maintenance of battery cabinets must be performed by authorized personnel responsible for compliance with existing electrical standards and regulations. Follow all safety instructions before installing, commissioning, or maintaining the battery cabinet to avoid the risk of death, injury, or damage to the equipment! The SolarEdge assumes no liability for resulting claims!

On-grid system

Turn off all AC circuit breakers supplying the battery cabinet and the air conditioner.

Shut down the Battery inverter

At the bottom of the battery inverter, turn OFF (counterclockwise) the two (2) black PCS DC switches.



Shut down the Battery cabinet

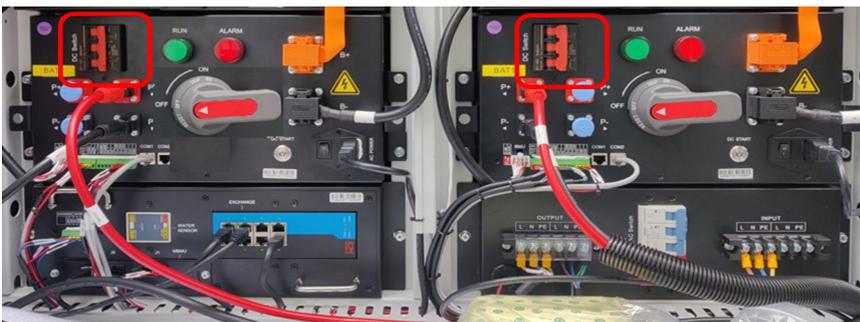
1. Open the battery cabinet door and keep it open using the support bar located inside the cabinet.
2. Turn off the two red and grey high voltage switches.



3. Turn off the blue AC switch (move it to the right).



4. Turn OFF both red DC switches by moving them to the right.



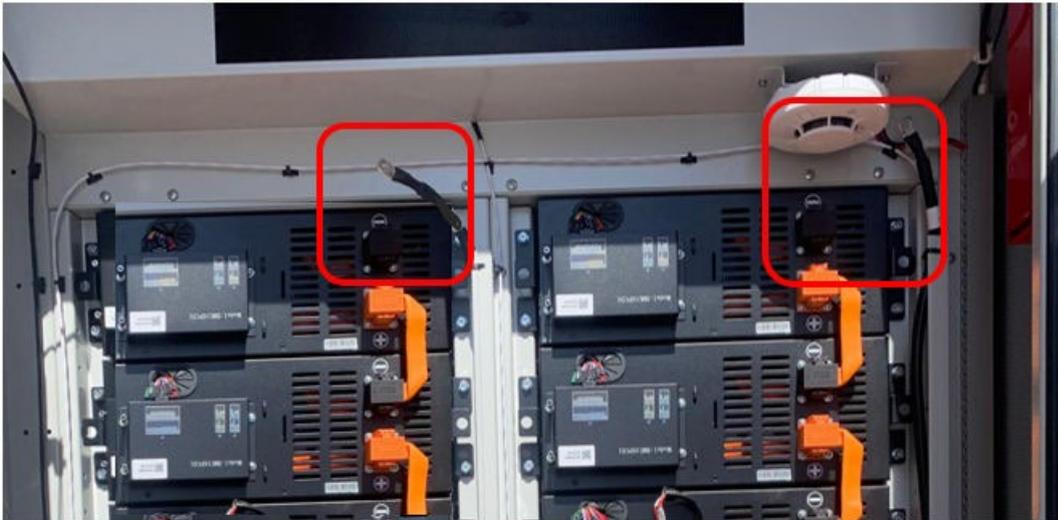
When the circuit breakers are OFF, the Cluster management unit indicator light is OFF.



- 5. Check that the inverter indicator lights are OFF.



- 6. Disconnect the black cables from the top of the battery strings on both sides of the battery cabinet, as shown below.



7. Disconnect the black cables from the bottom of the battery strings on both sides of the battery cabinet.



WARNING

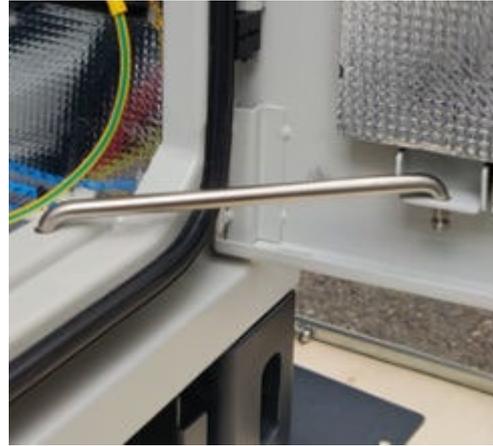
Be aware that each individual battery is still "live" at 52V.

BUI system

There are additional steps for shutting down a BUI system, as shown below.

Shut down the BUI

1. Turn off the AC circuit breakers supplying the BUI.
2. Open the Backup Interface (BUI) door and keep it open using the support bar located inside as shown in the pictures below.



3. Turn off the circuit breaker switches labeled QAC1, QAC2, QPCS1, QPCS2.



- 4. Close the BUI door and turn the door handle 90° clockwise.
- 5. Lock the door using the key provided.

Shut down the Battery inverter

At the bottom of the battery inverter, turn OFF (counterclockwise) the two (2) black PCS DC switches.



Shut down the Battery cabinet

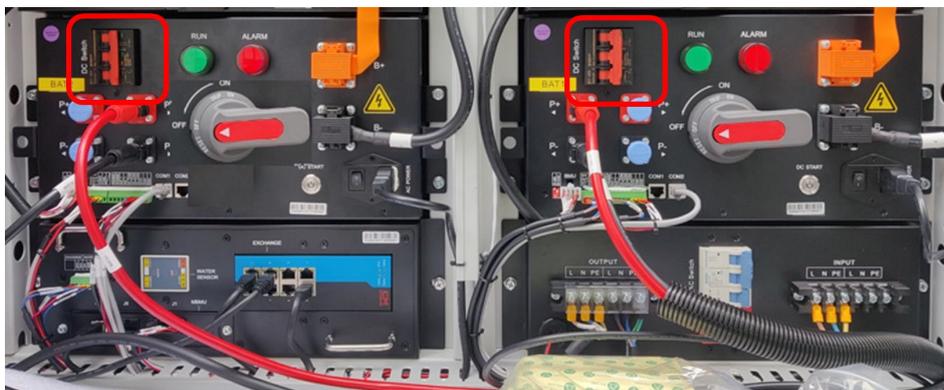
1. Open the battery cabinet door and keep it open using the support bar located inside the cabinet.
2. Turn off the two red and grey high voltage switches.



3. Turn off the blue AC switch (move it to the right).



4. Turn OFF both red DC switches by moving them to the right.



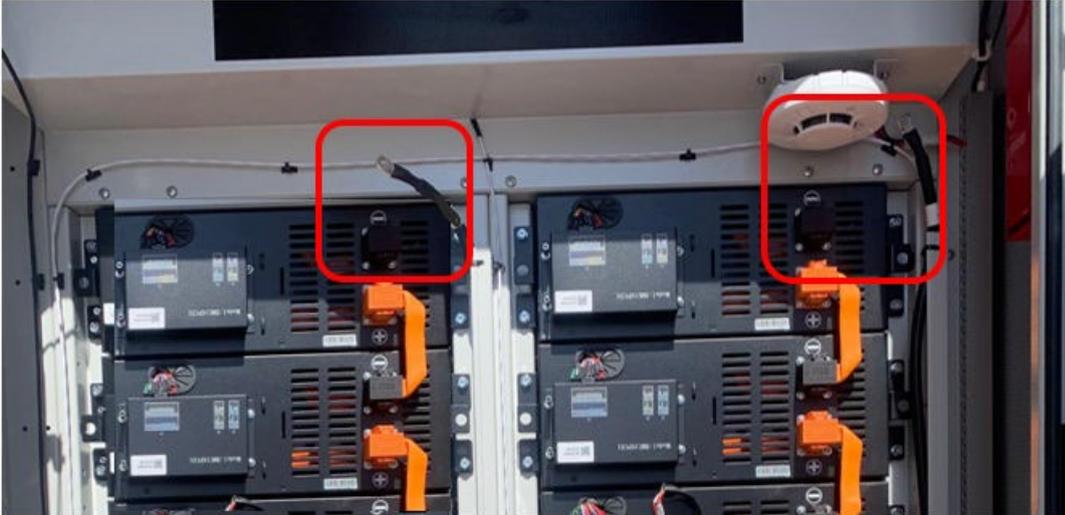
When the circuit breakers are OFF, the Cluster management unit indicator light is OFF.



5. Check that the inverter indicator lights are OFF.



6. Disconnect the black cables from the top of the battery strings on both sides of the battery cabinet, as shown below.



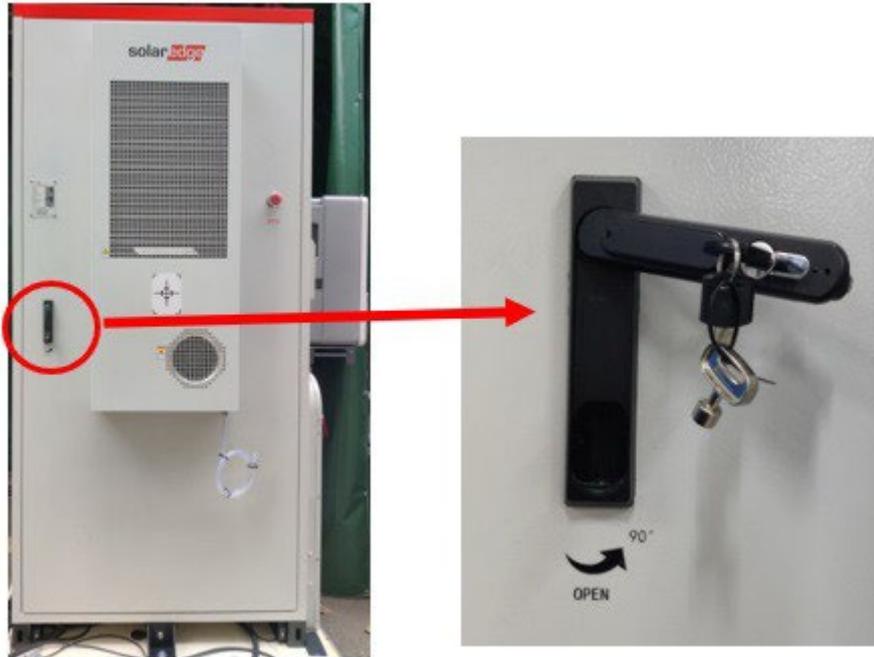
7. Disconnect the black cables from the bottom of the battery strings on both sides of the battery cabinet.



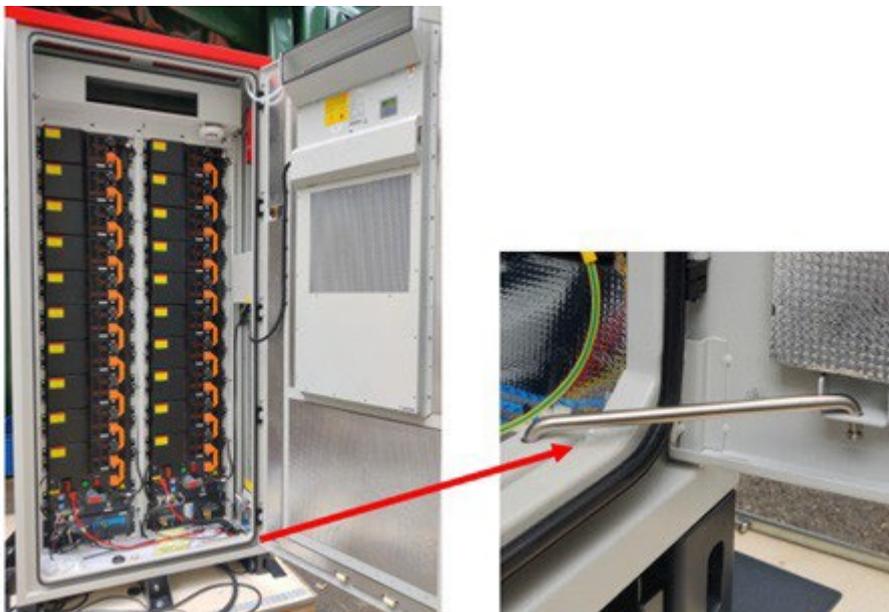
 **WARNING**
Be aware that each individual battery is still "live" at 52V.

Remove the Fire Extinguishing Controller

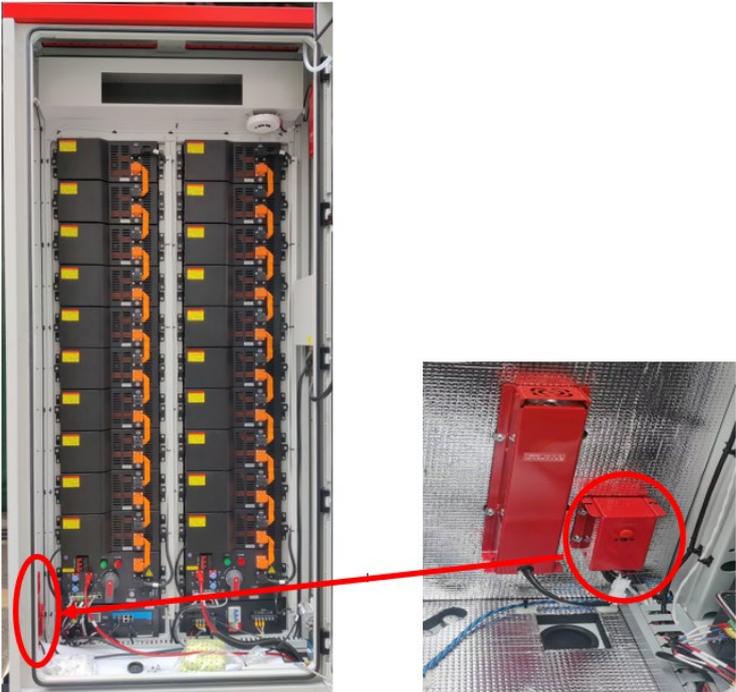
1. Use the provided key for the door handle and turn the handle up to open the cabinet's door.



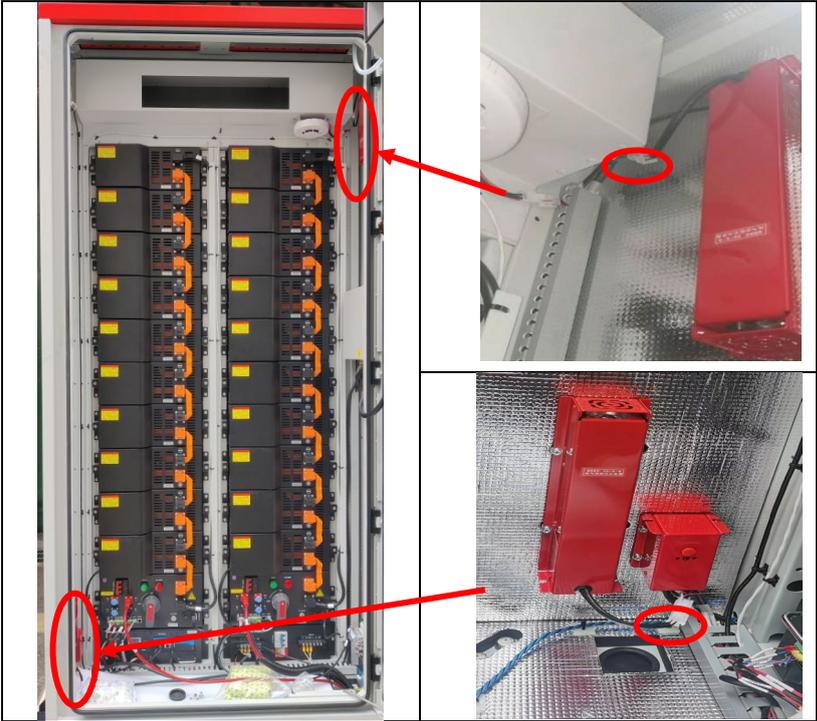
2. Fix the battery cabinet door with the support bar.



3. Locate the fire extinguishing controller inside the battery cabinet.



- 4. Wear antistatic gloves and remove the starter and feedback signal lines of the fire protection unit.



- 5. Using a Phillips screwdriver, dismantle the screws securing the fire starter unit.

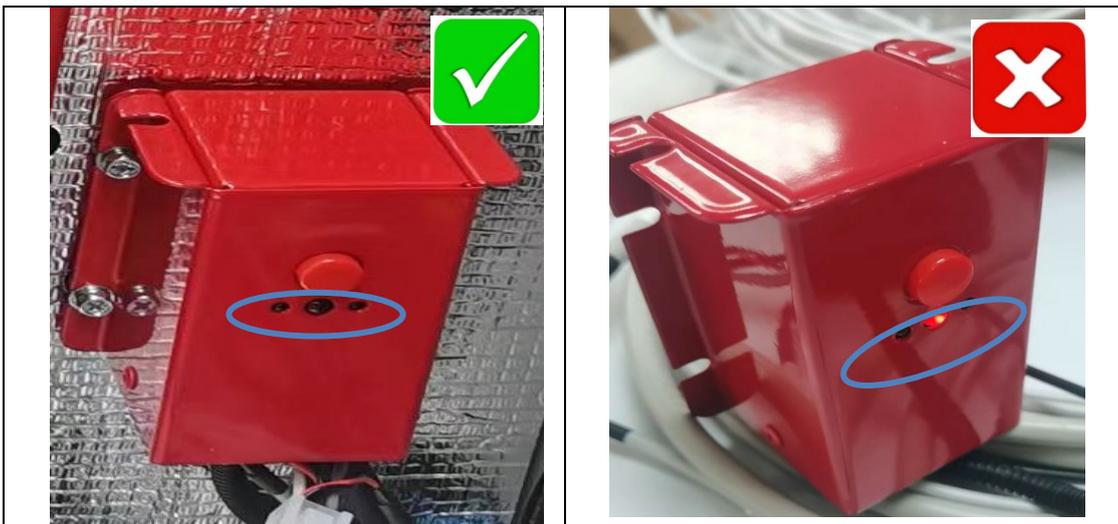


Install Fire Protection Unit

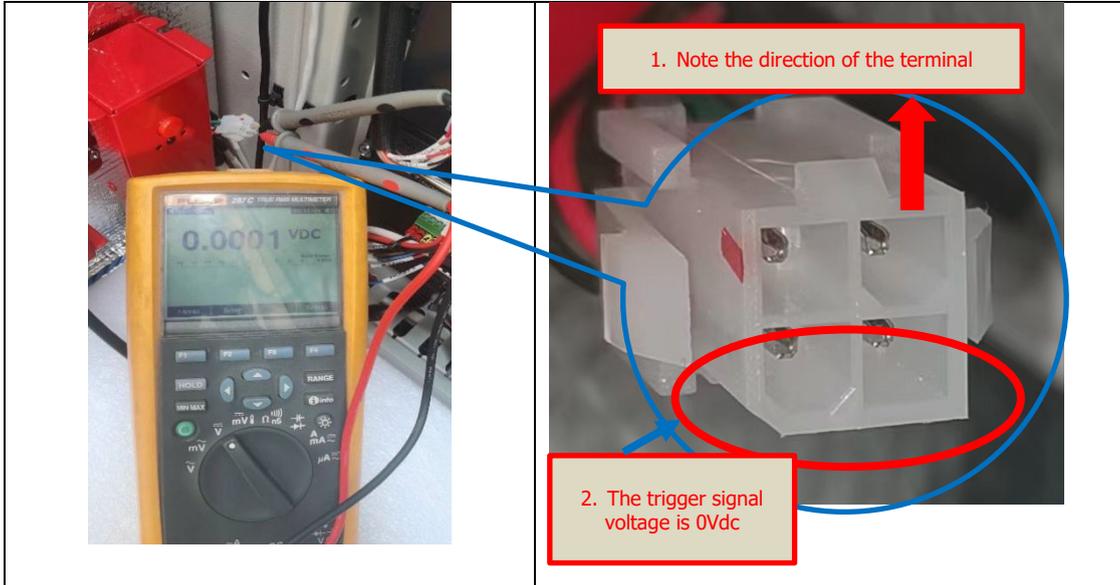
1. Place the spare fire starter unit in the appropriate position and secure the screws of the fire starter unit with a Phillips screwdriver.



2. Before connecting the start and feedback wires of the fire protection unit, verify that the fire starter indicator light of the fire starter device is off.



- 3. Measure the trigger signal line using a multimeter in DC voltage mode; there should be no trigger signal voltage.



- 4. When connecting the start and feedback cables of the fire protection unit, note the direction of the terminals. An incorrect connection will cause the device to spurious trigger.

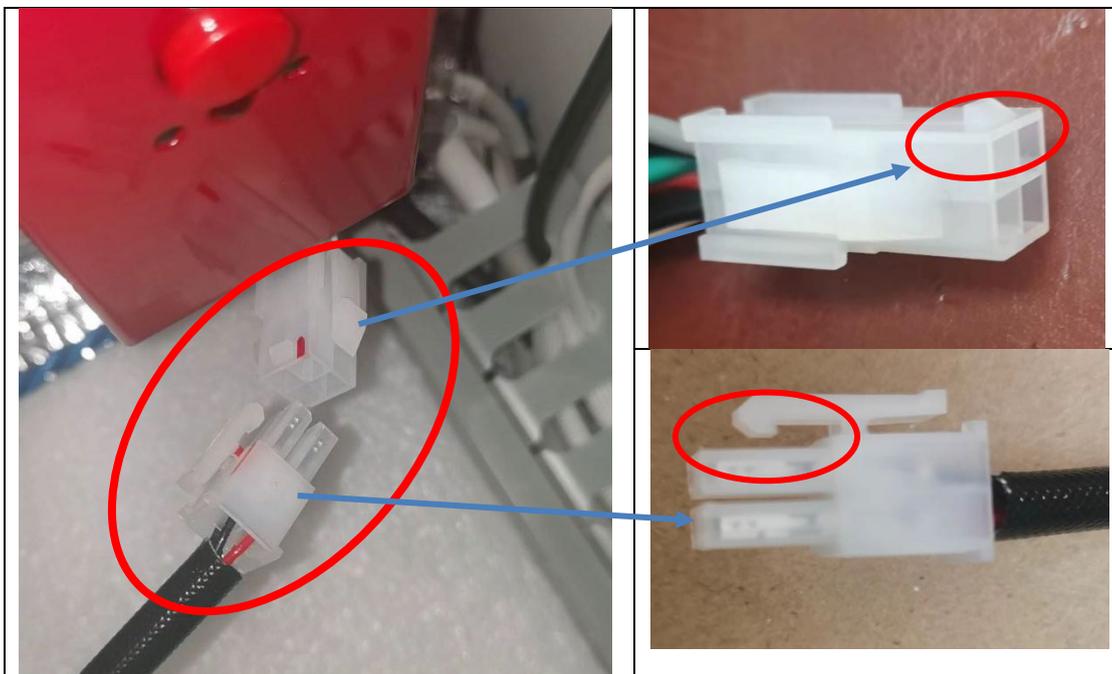
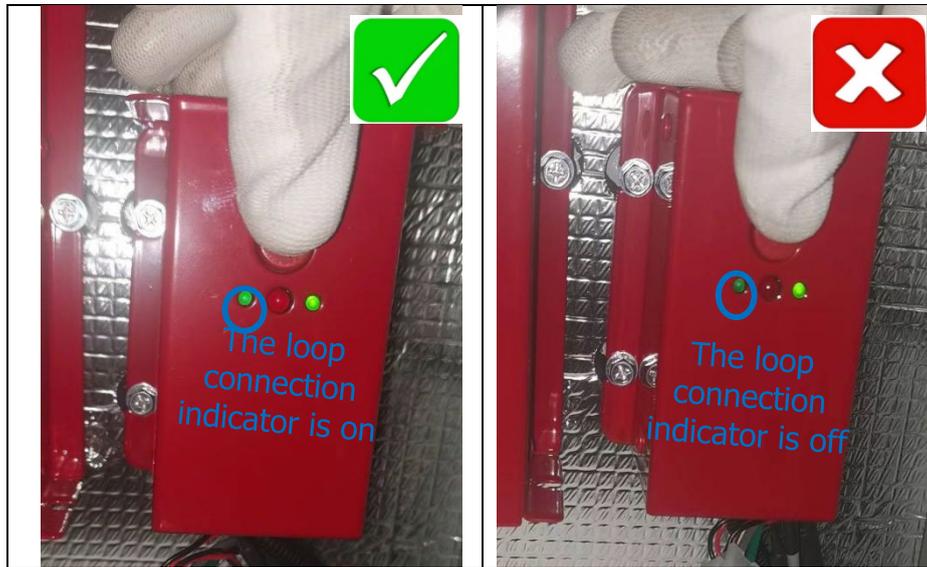


Fig 5.4

5. Check that the terminal connection is normal: Press the test button, then the power indicator on the right and the loop test indicator on the left will light up.



6. Press the terminal block up and pull it out of the terminal block.

Power ON the system

The procedure to power on the system once again depends on whether it is an on-grid system or a BUI system.

Power ON (on-grid system)

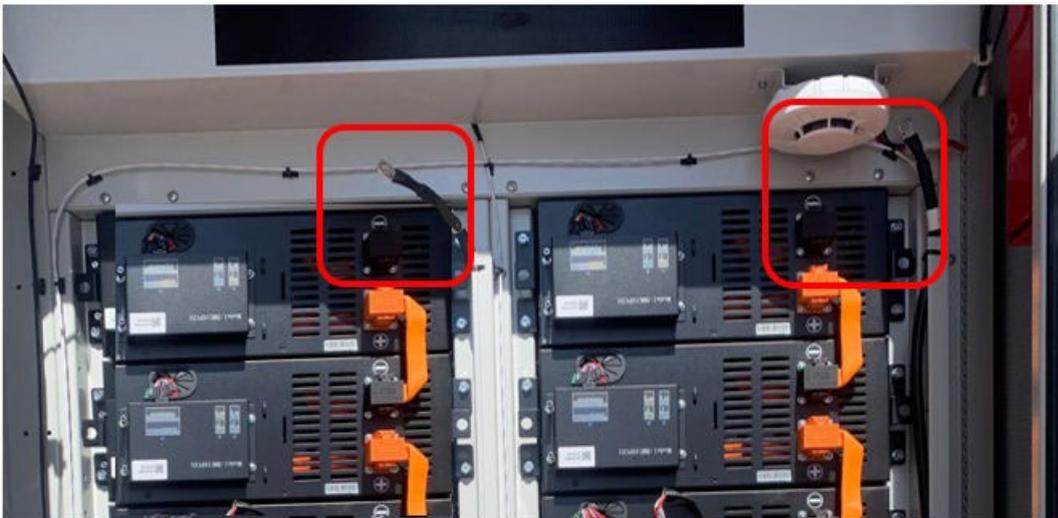
The first step is to power ON the Battery cabinet.

Power on the Battery cabinet

1. Connect the black cables at the bottom of the battery strings on both sides of the battery cabinet.



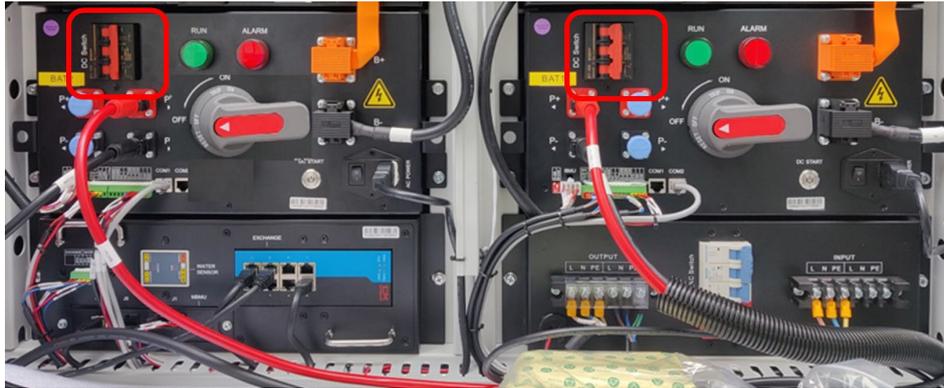
2. Reconnect the black cables at the top of the battery strings on both sides of the battery cabinet, as shown below.



WARNING

Be aware that each individual battery is still "live" at 52V.

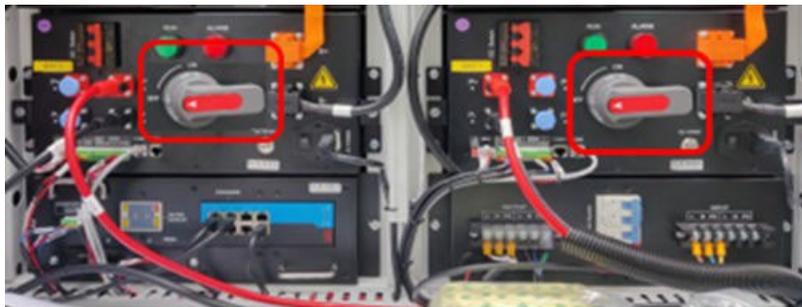
3. Turn ON the two red circuit breakers. The Cluster Management Unit indicator lights turn ON.



4. Turn ON the blue AC switch. Move it to the left.



5. Turn ON the two red and grey high voltage switches.



6. Remove the support bar, keeping the door open, and close the battery cabinet door.

Power ON the Battery inverter

1. At the bottom of the battery inverter, turn ON the two (2) black PCS DC switches. Make sure that the inverter indicator lights turn ON.
2. Power on all AC circuit breakers supplying the battery cabinet and the air conditioner.

Power ON (BUI system)

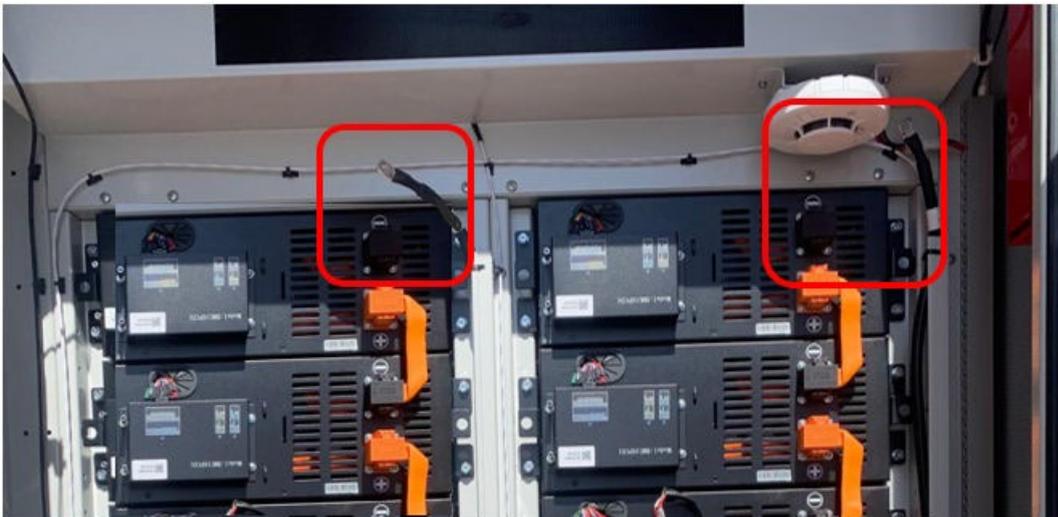
The first step is to power ON the Battery cabinet.

Power on the Battery cabinet

1. Connect the black cables at the bottom of the battery strings on both sides of the battery cabinet.



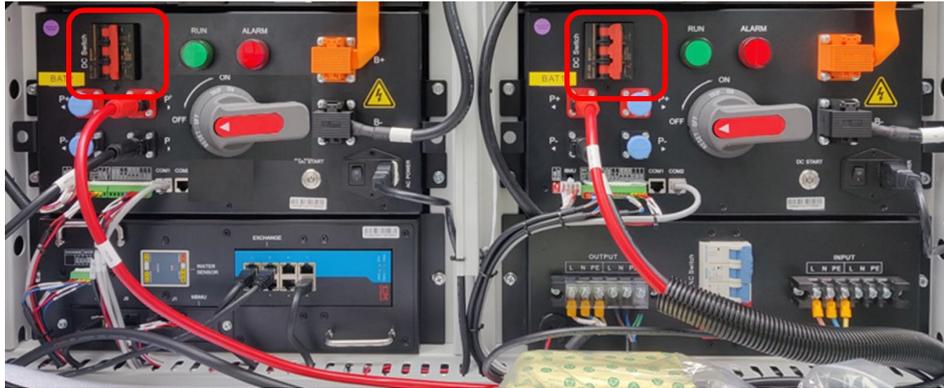
2. Reconnect the black cables at the top of the battery strings on both sides of the battery cabinet, as shown below.



WARNING

Be aware that each individual battery is still "live" at 52V.

3. Turn ON the two red circuit breakers. The Cluster Management Unit indicator lights turn ON.



4. Turn ON the blue AC switch. Move it to the left.



5. Turn ON the two red and grey high voltage switches.



6. Remove the support bar, keeping the door open, and close the battery cabinet door.

Power ON the Battery inverter

1. At the bottom of the battery inverter, turn ON the two (2) black PCS DC switches. Make sure that the inverter indicator lights turn ON.
2. Power on all AC circuit breakers supplying the battery cabinet and the air conditioner.

Power on the BUI

1. Unlock the BUI door using the key provided.
2. Open the door and turn the door handle 90° counterclockwise.
3. Turn on the circuit breaker switches labeled QAC1, QAC2, QPCS1, QPCS2.
4. Remove the support bar, keeping the door open, and close the BUI door.
5. Turn on the AC circuit breakers supplying the BUI.