solaredge BI-EU3P Home Backup Interface Three Phase Installation Guide

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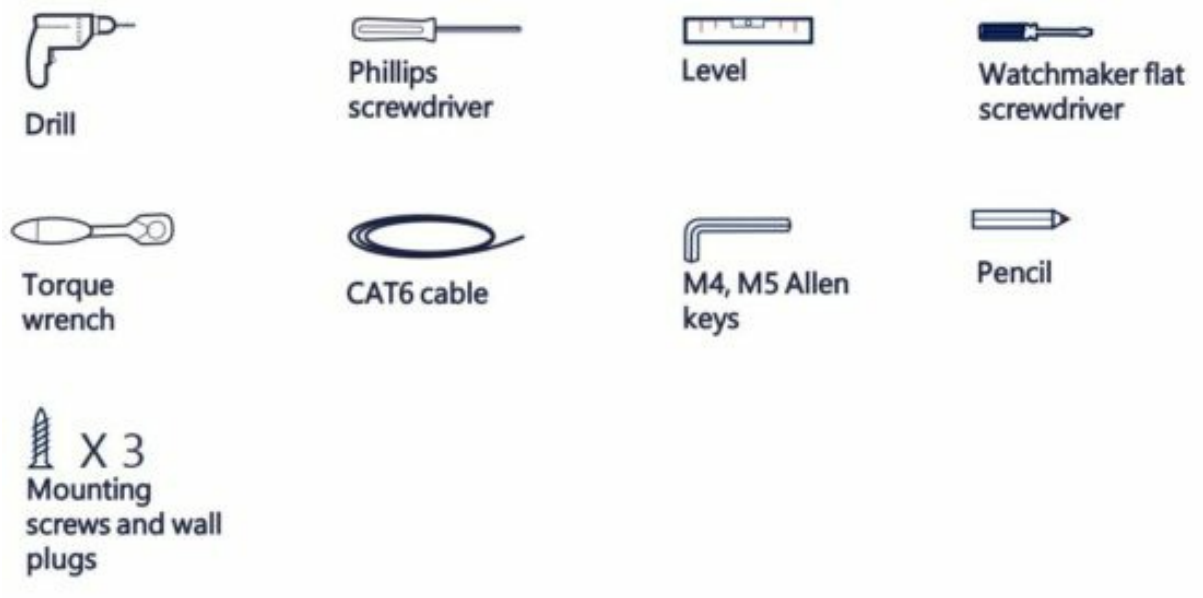
Support Contact Information
In case of any technical issues with SolarEdge products, please contact us at:
https://www.solaredge.com/service/support

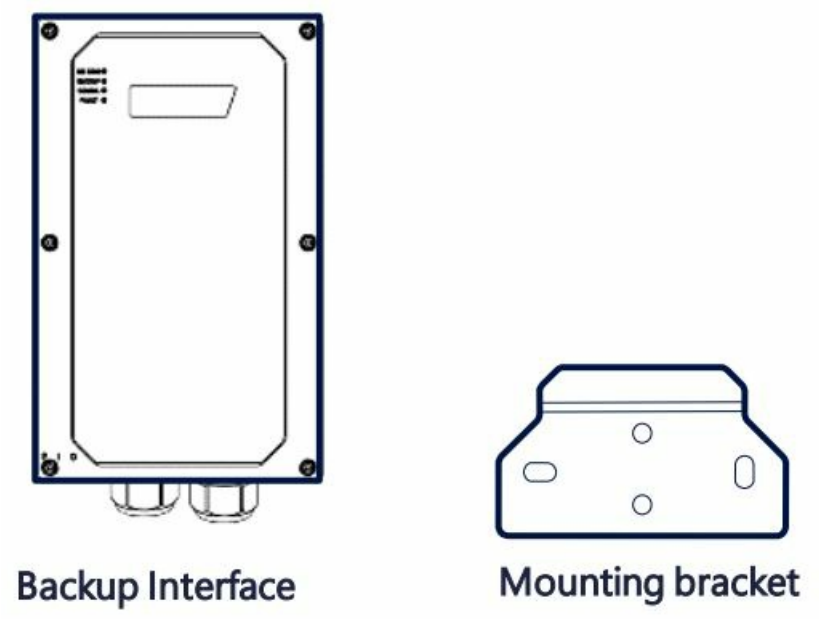
Version: 1.0, December 2022 Subject to change without notice.

For use with the SolarEdge Home Hub Inverter, Three Phase

Required Tools



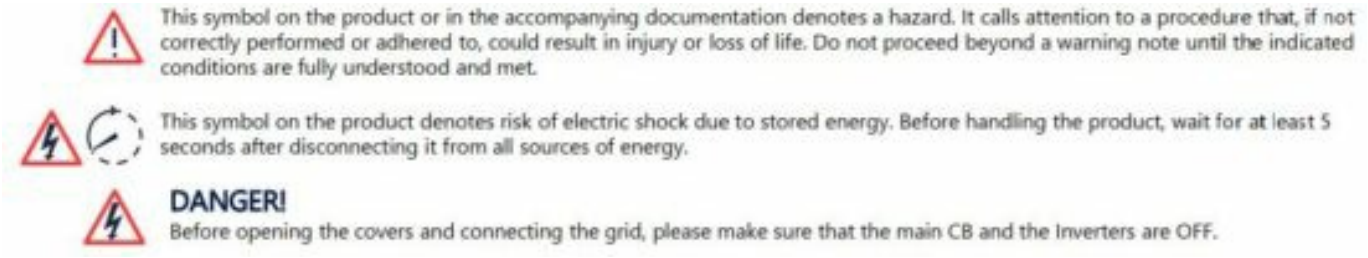
What's in the Package



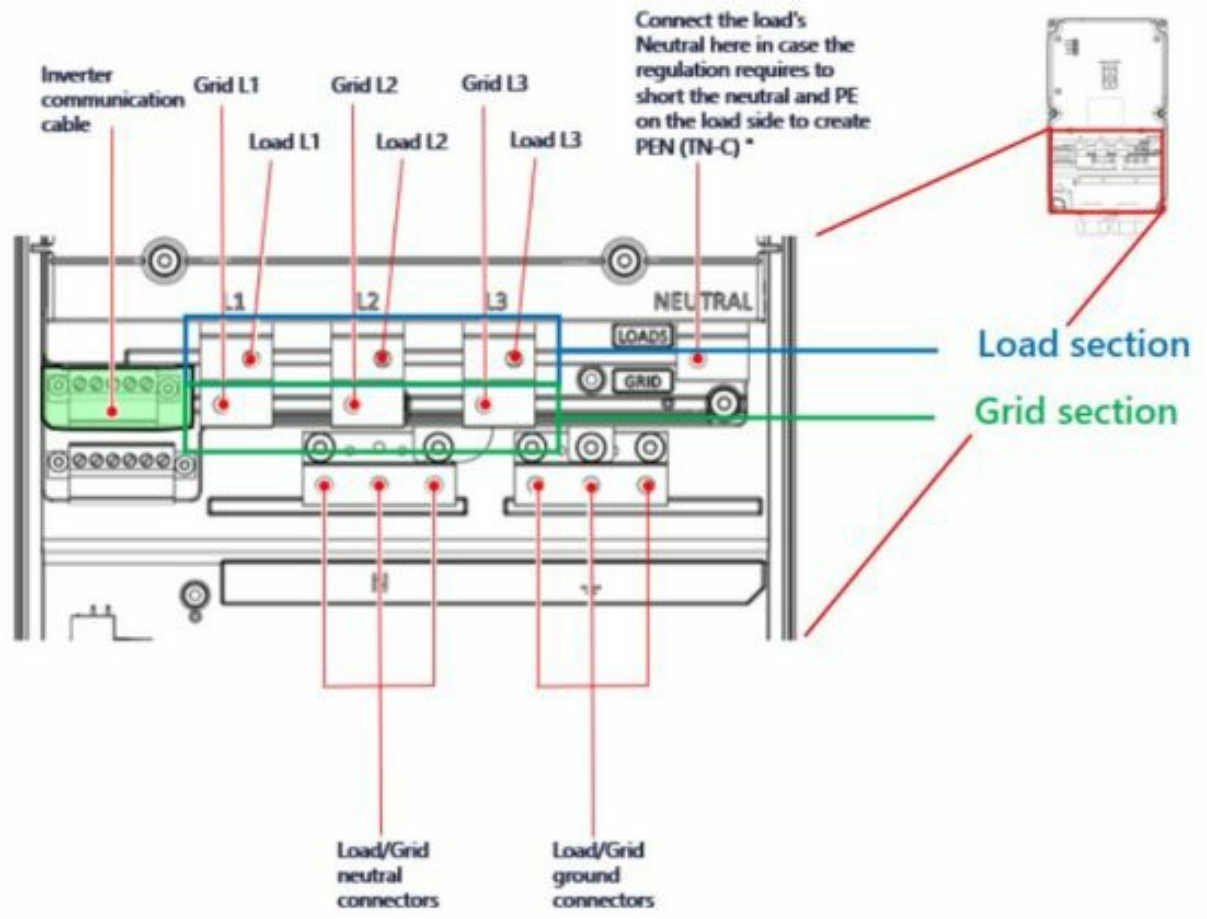
SAFETY AND HANDLING INSTRUCTIONS

- Read this entire document before installing or operating the Backup Interface (also referred to as BUI). Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or may damage the Backup Interface and other property, it can also lead to warranty void.
- Do not discard this document! After installation, keep it adjacent to the Backup Interface for future reference!
- Before operating the Backup Interface and inverter, ensure that they are properly grounded. The Backup Interface and inverter must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead.

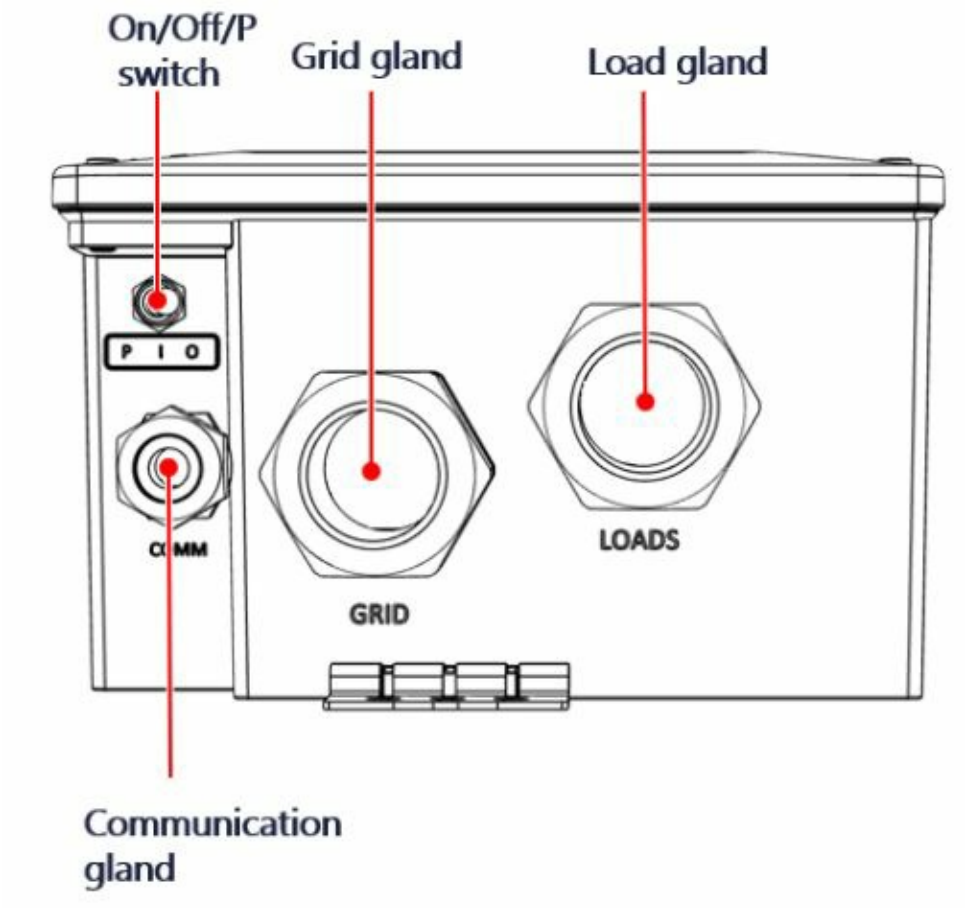
- Opening the Backup Interface and repairing or testing under power must be performed only by qualified service personnel familiar with the Backup Interface.



Main connection scheme

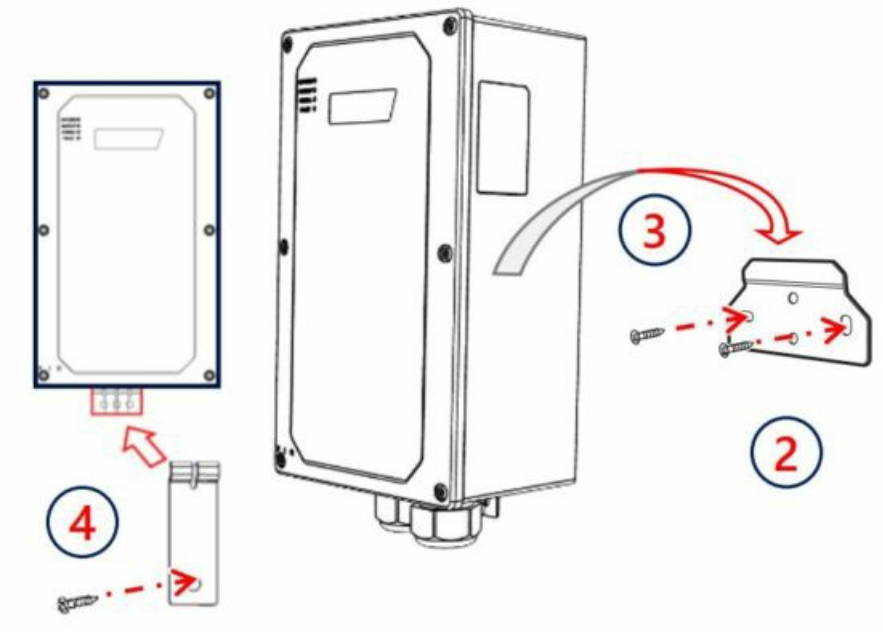


Bottom interface of the Backup Interface

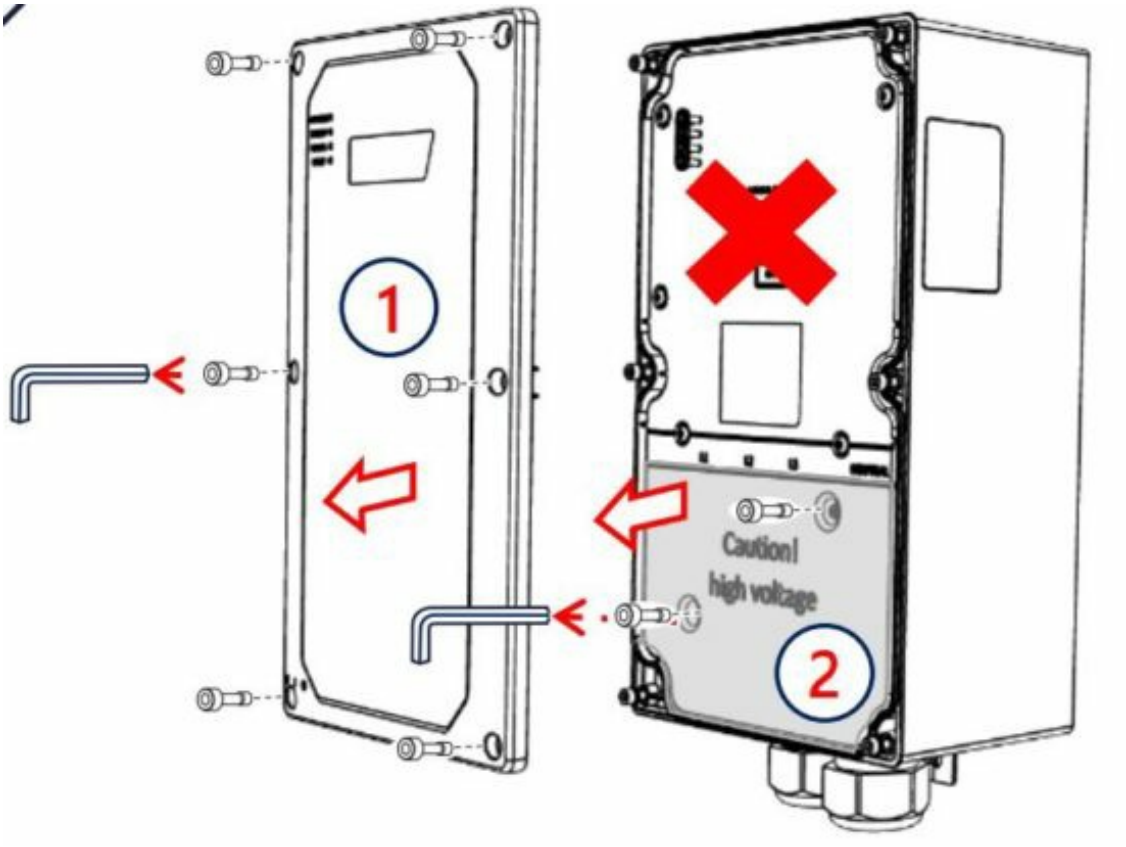


1. Mounting the Backup Interface

1. Select an installation location. Make sure you have enough space between the Backup Interface and other objects to securely access all its interfaces.
2. Install the mounting bracket to the wall and secure it with
3. screws. If using only 2 screws, use left and right ones.
4. Hang the Backup Interface on the mounting bracket.
5. Hang the lower bracket on the hook behind the bottom glands, secure it to the wall with a screw.



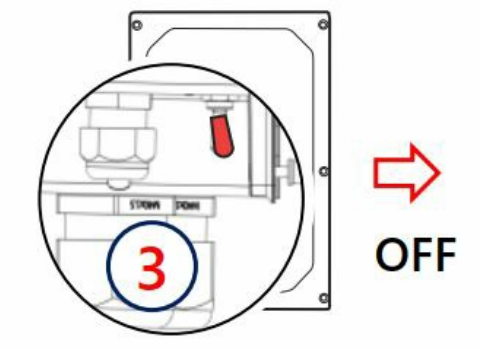
2. Removing the covers

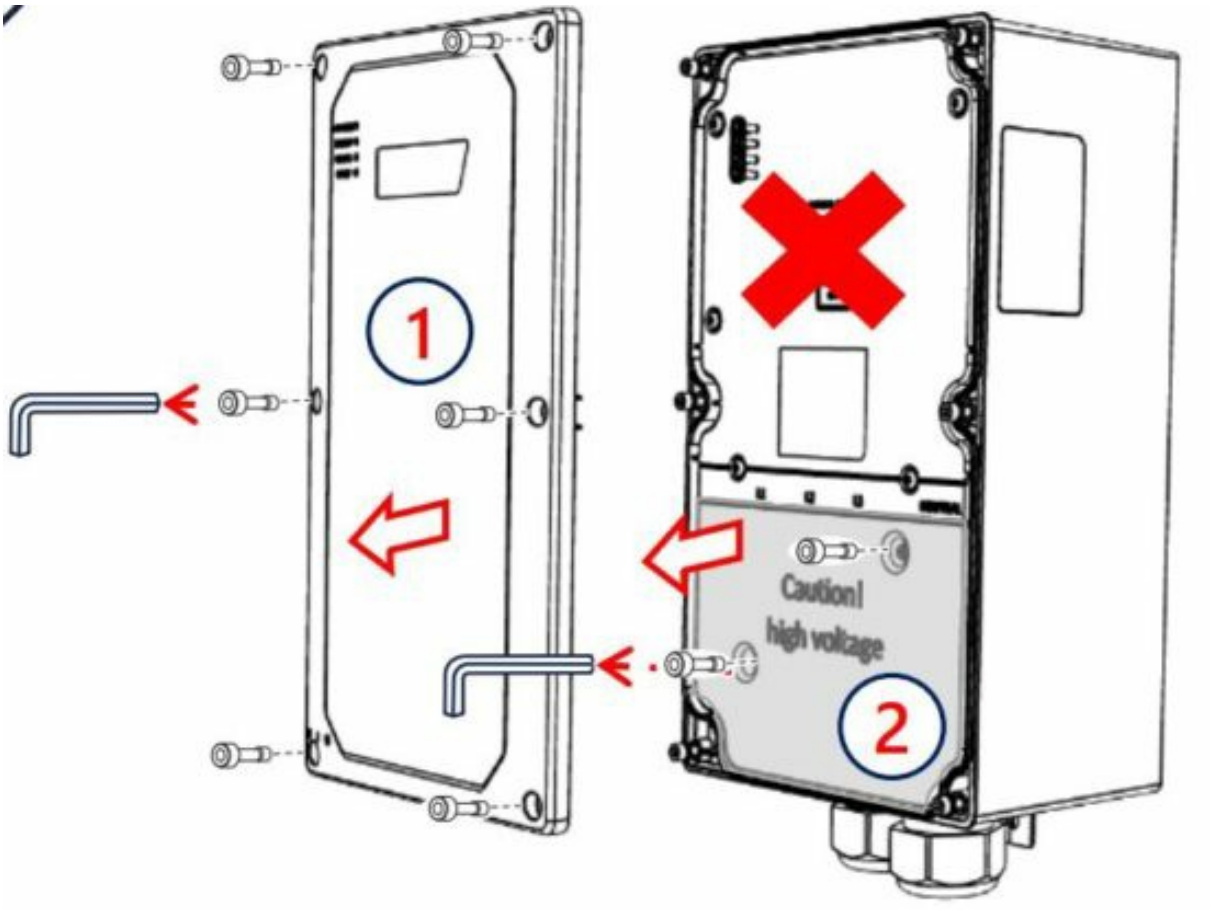


⚠ WARNING!

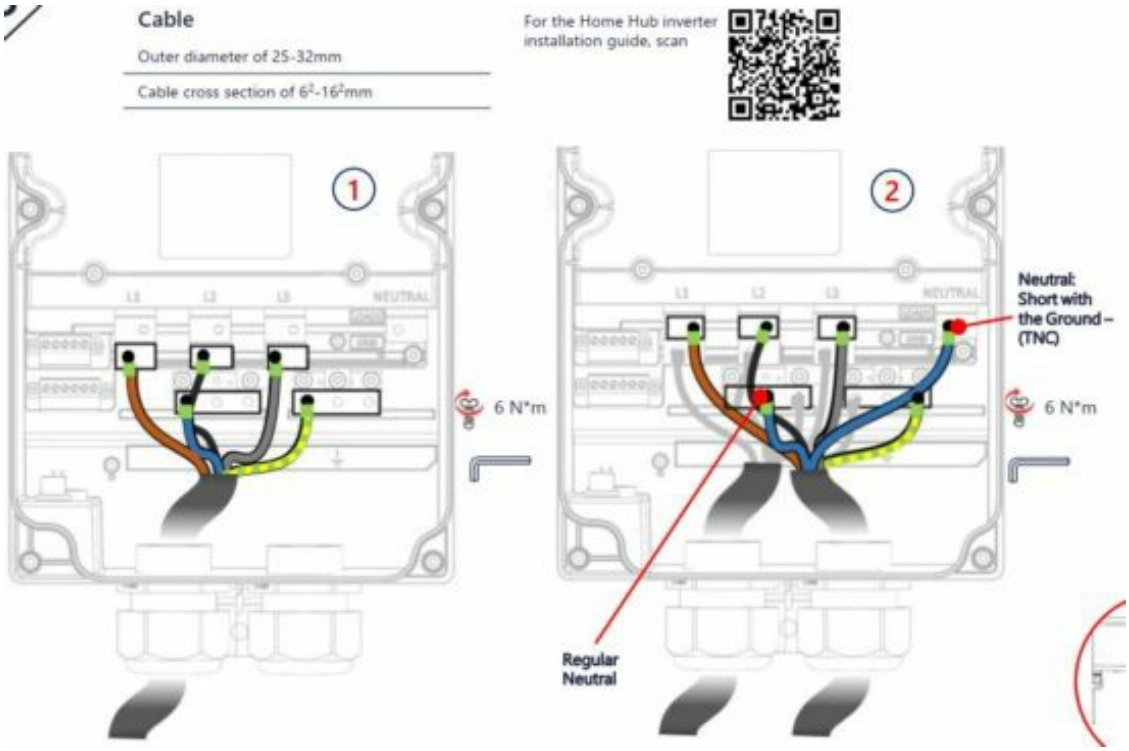
It is forbidden and dangerous to open the upper section. Only the lower section is for user interface usage.

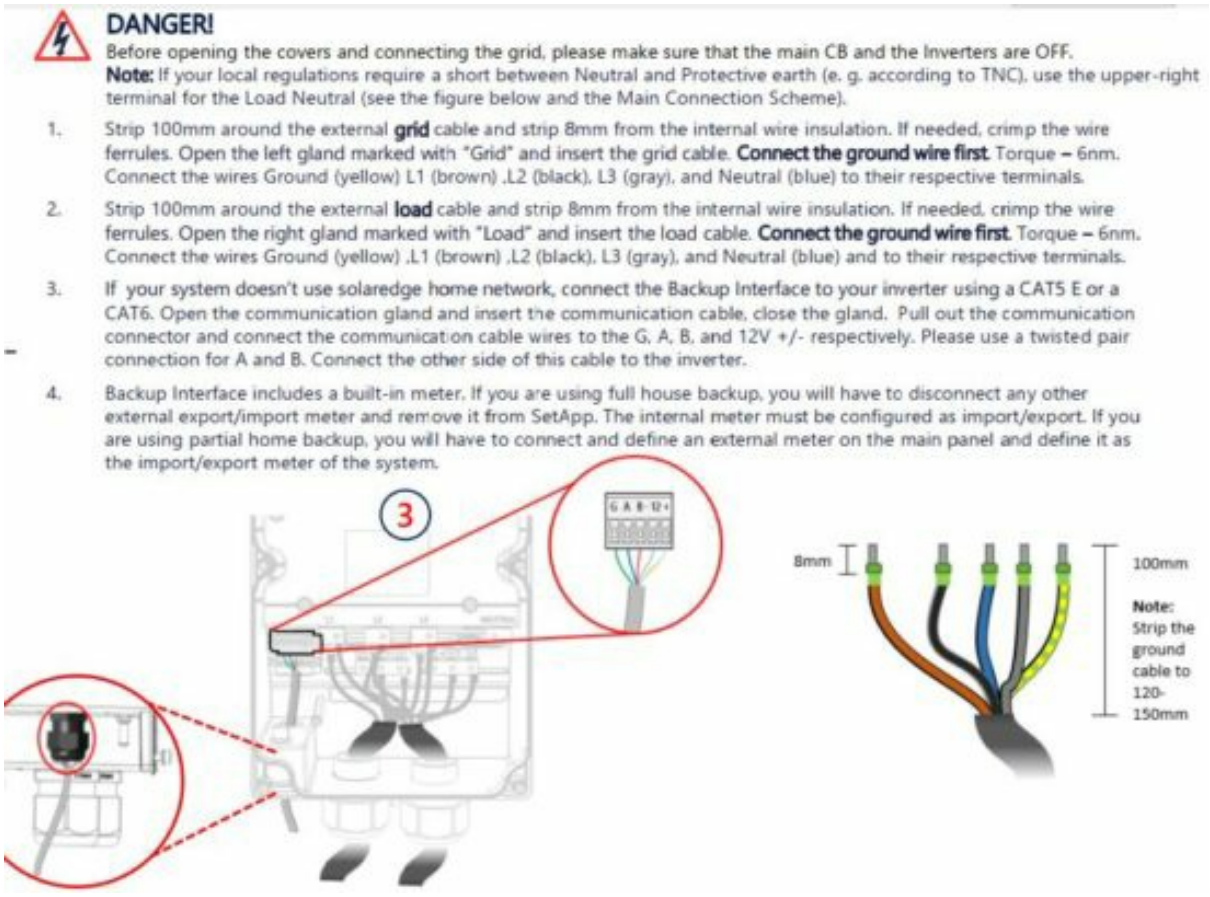
1. Using M5 Allen key, release six screws and remove the Backup Interface front cover.
2. Using M4 Allen key, release two screws and remove the Backup Interface internal lower cover.
3. Make sure the ON/OFF switch is in the OFF position.





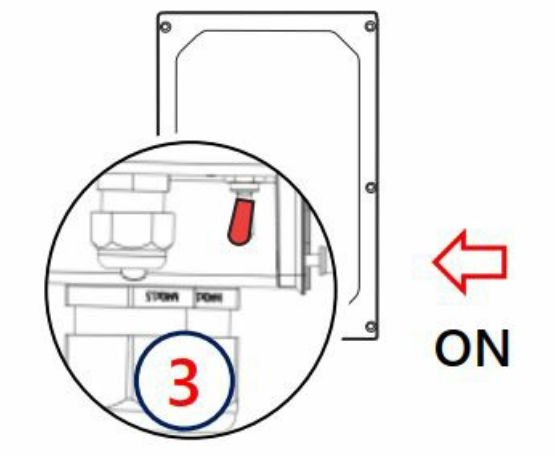
3. Connecting the Backup Interface

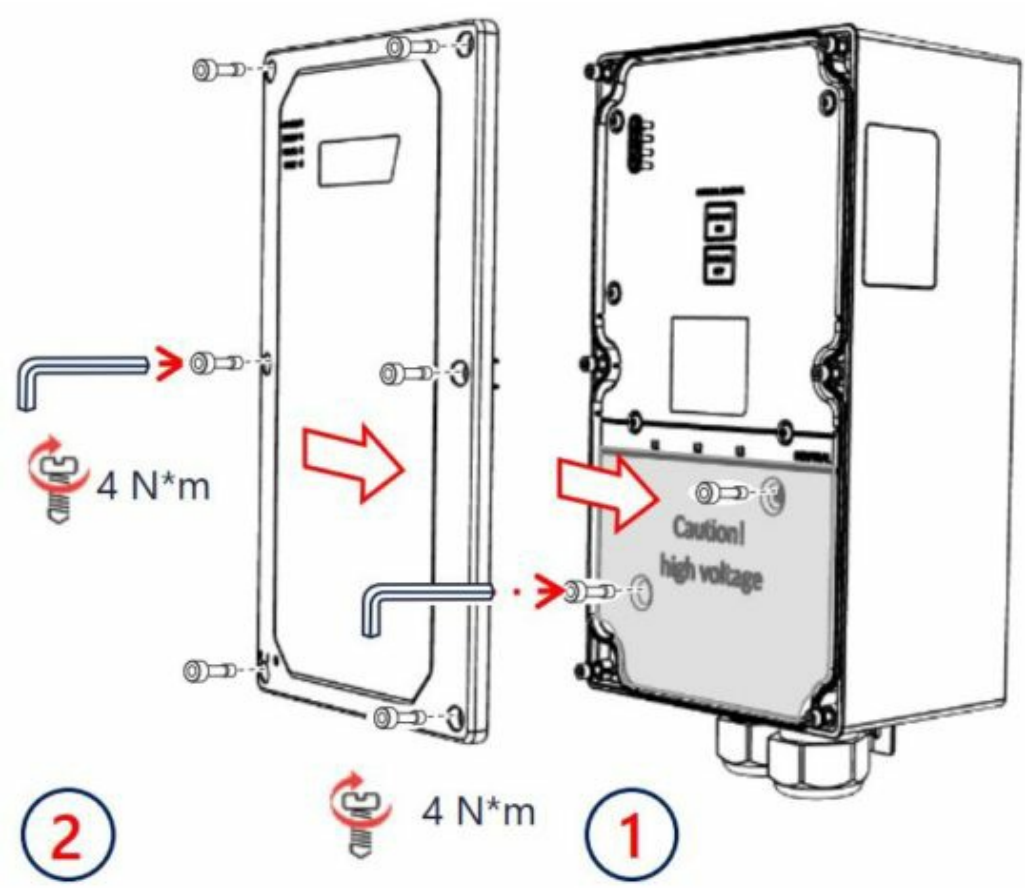




4. Closing the Backup Interface

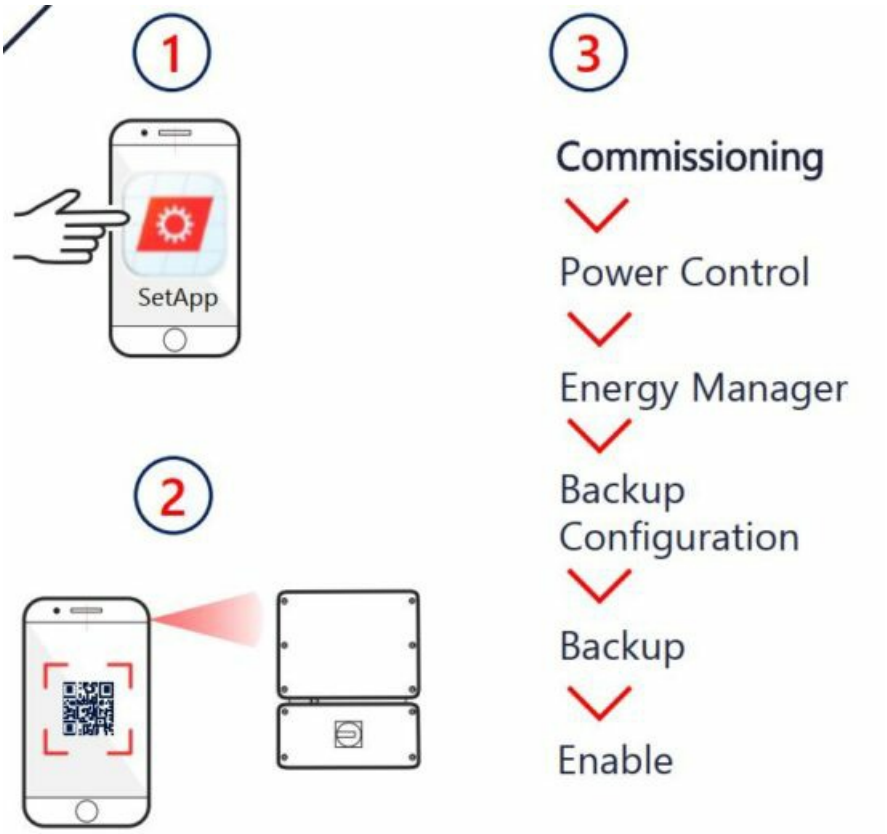
1. Using M4 Allen key, secure Backup Interface internal lower cover with two screws.
2. Using M5 Allen key, secure Backup Interface external front cover with six screws.
3. Now you can turn on the main CB and the inverter.





5. Configuring Installation

1. Run Set App.
2. Scan the QR code on the inverter.
3. Follow the on-screen instructions.
4. Configure the import/ export meter on SetApp.



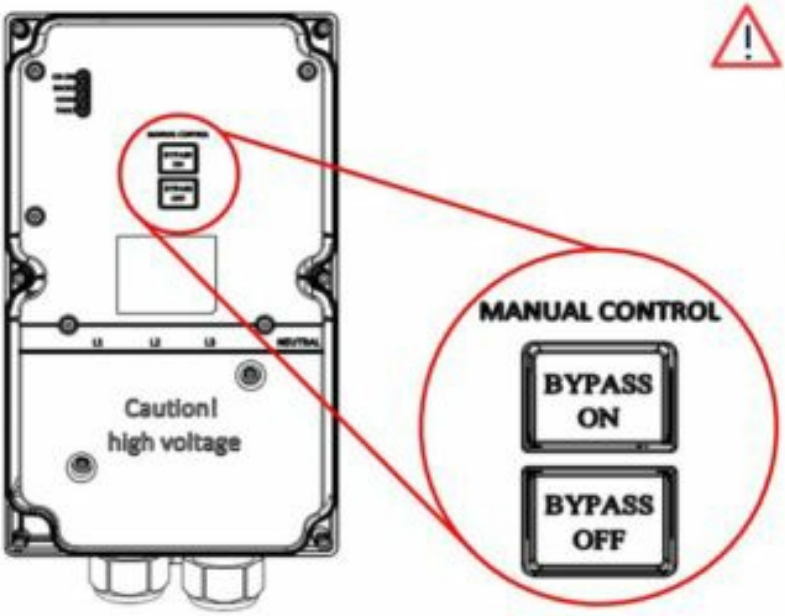
6. Backup system checkup

Note: Before you start, make sure you have the Inverter system operating and producing with battery at above 20%.
Checking the backup operation may cause 2-3 seconds of electricity supply failure to the loads before they are powered up again; if you have a load sensitive to such interruption, please disconnect it from the load backup section.

Make sure the loads are evenly distributed between phases and do not exceed your inverter rating per phase.

1. Make sure you have power from the grid and your inverter is working.
2. Before you start, check that the Battery SoC level is above 20%.
3. Make sure the Grid LED is ON and there is no fault detected. Turn OFF the main CB coming from the grid. Immediately after that, all home loads should shut down and the “On grid” LED should turn OFF.
4. Wait for a few seconds till all the home loads are powered up again, the LED marked as “Backup” should turn ON.
5. After a few minutes of stable operation, turn ON the main CB again.
6. “Backup” LED should turn OFF and the “On grid” LED should turn on again.

Manually Switching to Grid-Connected Mode



WARNING!
Only a certified installer is permitted to perform this operation

In case the grid is back to operation, but, for some reason, the "Backup Interface" LED shows that backup is ON, you can manually connect the grid back to the loads by following the below procedure.

When the system is manually switched to the grid-connected mode, no backup of the loads is possible.

To switch to the grid-connected mode:

1. Remove the Backup Interface front cover as shown above.
2. Press "Bypass On" on Manual Control panel.
3. Close the external cover.

LED Indications

Grid

ON
On grid or boot

OFF
Backup mode

Blinking
Firmware upgrade

Fast blinking
Backup interface received request to identify itself

Backup

ON
In backup or boot

OFF
On grid

Blinking
Firmware upgrade

Fast blinking
Backup interface received request to identify itself

Comm

ON
Connected to the network/ received modbus packet/ boot

Blinking
There is no communication over RF or RS485

- On RF – not connected or temporarily disconnected
- On RS485 – no packet received for 30 seconds

Flickering
Bootloader is upgrading software

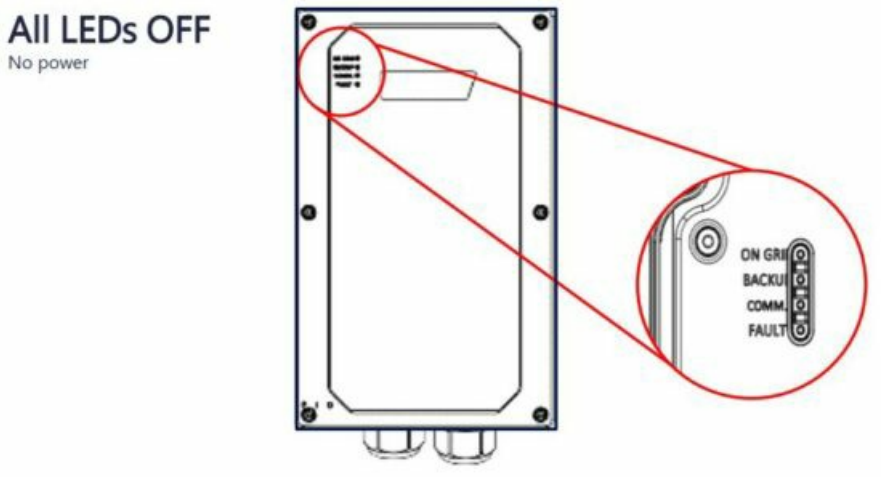
Fast blinking
Device received request to identify itself

Fault

ON
Fault or boot

OFF
No faults

Blinking
Firmware upgrade



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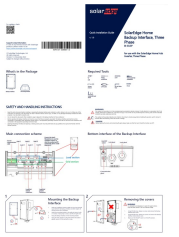
Documents / Resources

	solaredge BI-EU3P Home Backup Interface Three Phase [pdf] Installation Guide BI-EU3P Home Backup Interface Three Phase, BI-EU3P, Home Backup Interface Three Phase, Home Backup Interface, Home Backup Interface, Backup Interface, Interface

References

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