For updates, check:



## **Support Contact Information**

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

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# SolarEdge Home **Quick Installation Guide** Backup Interface, Three v. 1.1 Phase

BI-EU3P

for use with the SolarEdge Home Hub Inverter, Three Phase

# What's in the Package



**Backup Interface** 





- 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!

SAFETY AND HANDLING INSTRUCTIONS

- 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

# **Required Tools**





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# WARNINGS!



This symbol on the product or in the accompanying documentation denotes a hazard. It calls attention to a procedure that, if not correctly performed or adhered to, could result in injury or loss of life. Do not proceed beyond a warning note until the indicated conditions are fully understood and met.



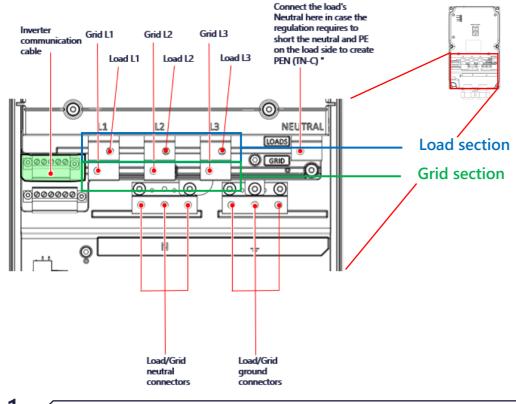
This symbol on the product denotes risk of electric shock due to stored energy. Before handling the product, wait for at least 5 seconds after disconnecting it from all sources of energy.



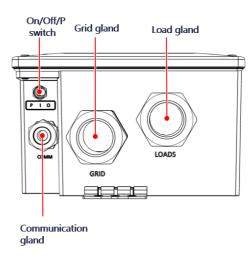
# DANGER!

Before opening the covers and connecting the grid, please make sure that the main CB and the Inverters are OFF.

# Main connection scheme



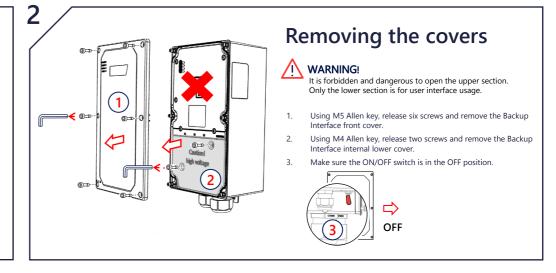
# **Bottom interface of the Backup Interface**

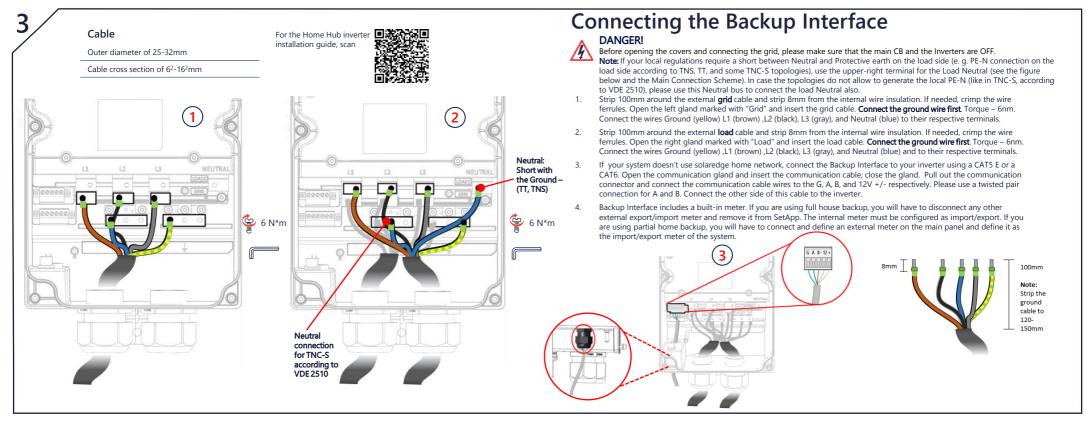


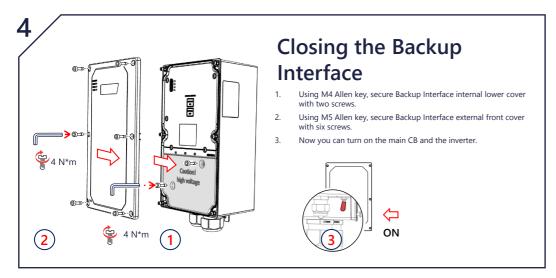
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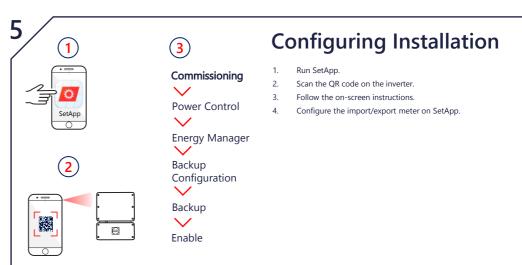
# **Mounting the Backup** Interface

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









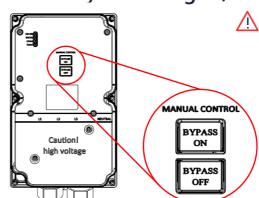
# Backup system checkup

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

- Make sure you have power from the grid and your inverter is working.
- Before you start, check that the Battery SoC level is above 20%.
- 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.
- Wait for a few seconds till all the home loads are powered up again, the LED marked as "Backup" should turn ON.
- After a few minutes of stable operation, turn ON the main CB again.
- "Backup" LED should turn OFF and the "On grid" LED should turn on again

# Manually Switching to/from Grid-Connected



**WARNING!** 

Only a certified installer is permitted to perform this operation

This section describes how to reconnect the grid in case the Backup Interface hasn't switched it back for some reason.

Before operating these Bypass switches, **make** sure the ON/OFF/P switch is in *ON* position.

If the ON/OFF/P switch is in *OFF* position, the Bypass switch may malfunction.

# Switching from Off grid to On grid

In case the grid came back from outage, but the system is still working in *Off grid*, use the following procedure to switch the grid back to the system:

- Remove the Backup Interface front cover
- Press "Bypass On" on Manual Control
- Close the external cover

Please note that Bypass OFF disconnects the grid from the home, use this switch ONLY in case you want to check that the backup system is ready for operation.

# **LED Indications**

# Grid

# On grid or boot

OFF

Blinking

Firmware upgrade

Fast blinking Backup interface received request to identify itself

# Backup



In backup or boot

Blinking Firmware upgrade

Fast blinking

Backup interface received request to identify itself

# Comm



Connected to the network/ received modbus packet/ boot

Blinking

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**



All LEDs OFF

No power

OFF

Blinking Firmware upgrade

