

SolarEdge Home Hub Inverter - Three Phase

Compact Product Guide
for Europe



Unpacking and
mounting video



Wiring video



Datasheet



Quick Installation Guide



Installation Manual

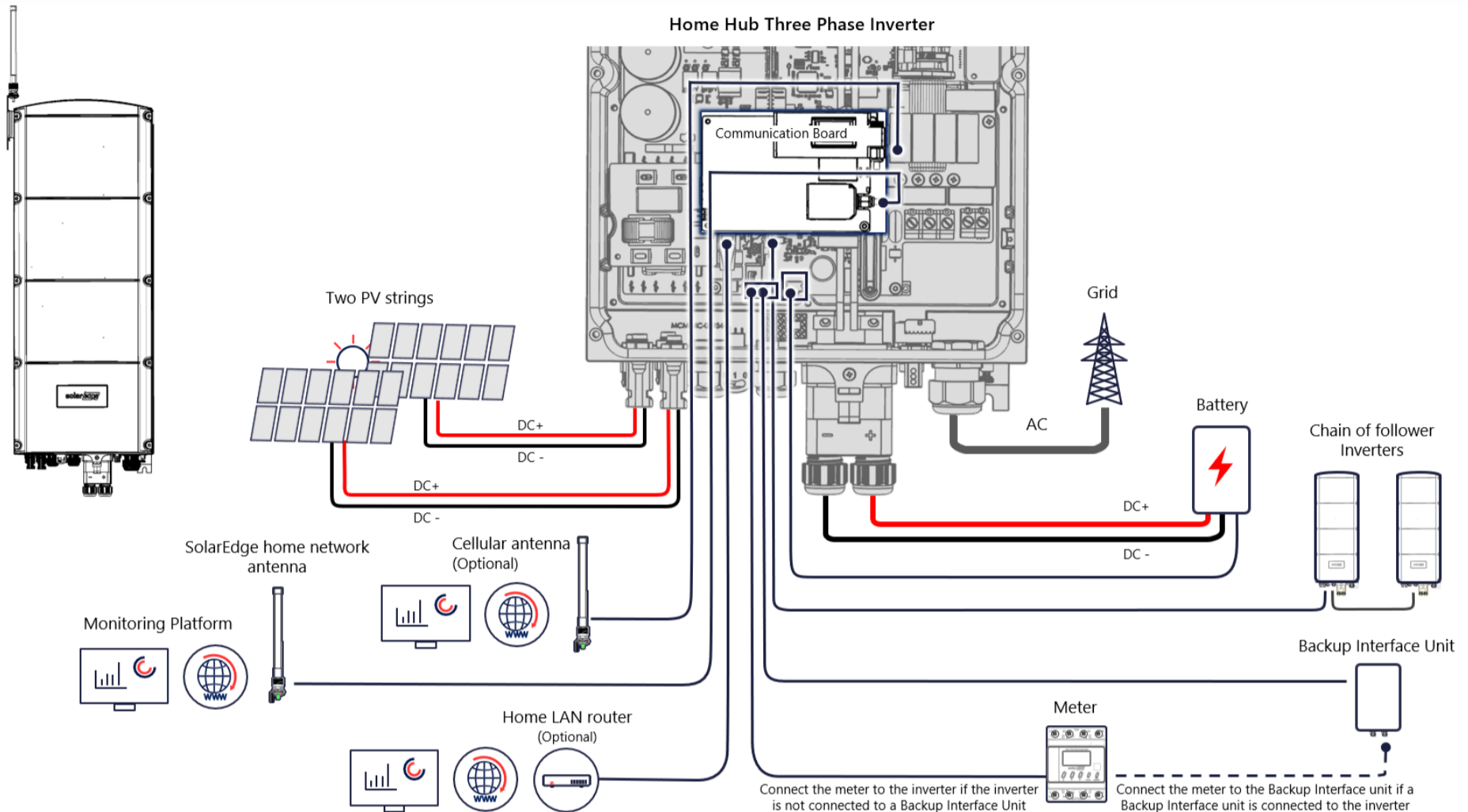


Connection Diagram

The following figure shows a schematic connection diagram of the inverter.

Inverter AC and DC Wiring

The following figure shows the AC and DC wiring of the inverter.



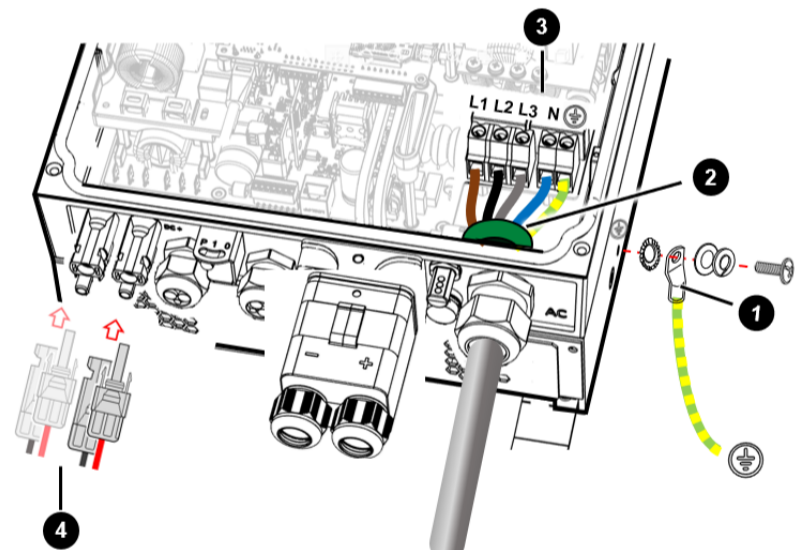
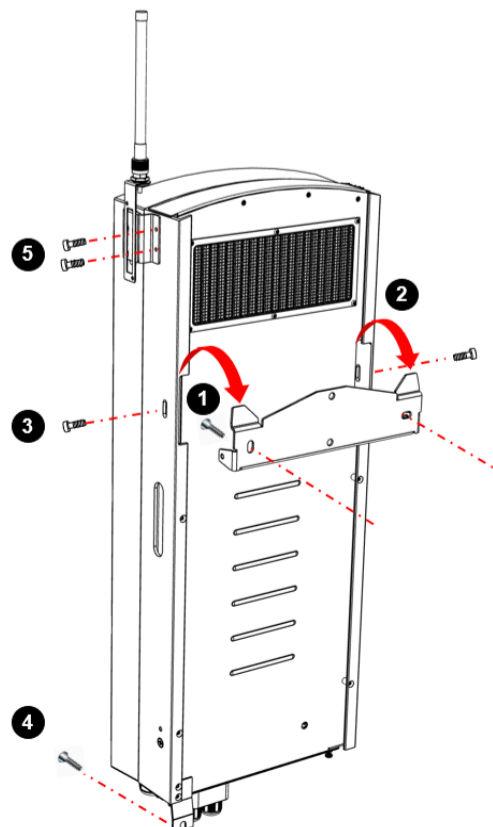
Before Installing the Inverter

- WARNING!** To avoid danger, read the **HANDLING AND SAFETY INSTRUCTIONS** provided with this product, or refer to: https://www.solaredge.com/sites/default/files/se_handling_and_safety_instructions.pdf
- Read the **datasheet** provided with this product, or refer to: <https://www.solaredge.com/sites/default/files/se-Inline-energy-meter-datasheet.pdf>

Mounting Considerations

- Inverter Weight: 37 Kg. Use provided bracket for mounting.
- Clearance around the inverter: keep 20 cm from the top and bottom, 20 cm from the sides, and one meter from the front.
- Tighten the side screws (3) to a torque of 4 N*m.
- Tighten the screws of the antenna bracket (5) to a torque of 2.2 N*m.

The following figure shows how to mount the inverter.

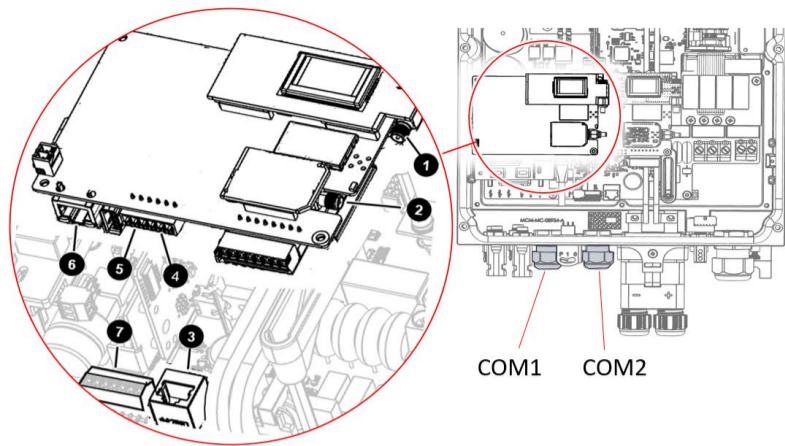


- Enclosure Grounding wire:** Use at least 6 mm² cross-section wire. **CAUTION!** Connect a grounding cable to the enclosure first.
- AC Terminals:** Use a five-wire cable with a wire cross-section area of 6-16 mm². The cable diameter is 15-21 mm. Use ferrules on the wires. Pass the wires through the ferrite bead. Torque the terminal screws to 1.5 N*m. Tighten the AC gland to a torque of 2.8-3.3 N*m. **NOTE:** Overcurrent protection for the AC output must be provided by others, see installation manual for guidance. **CAUTION!** Connect the grounding wire before the other wires.
- PV String (DC power) MC4 Connectors**
The cable diameter is 11-16.5 mm. **CAUTION!** Earthing of a conductor on the DC side is not permitted.

Connecting Communications

To add a plug-in communication module: Plug in the module to the communication board and route the antenna cable via glands COM1 or COM2. Tighten the glands to a torque of 3.5 N*m.

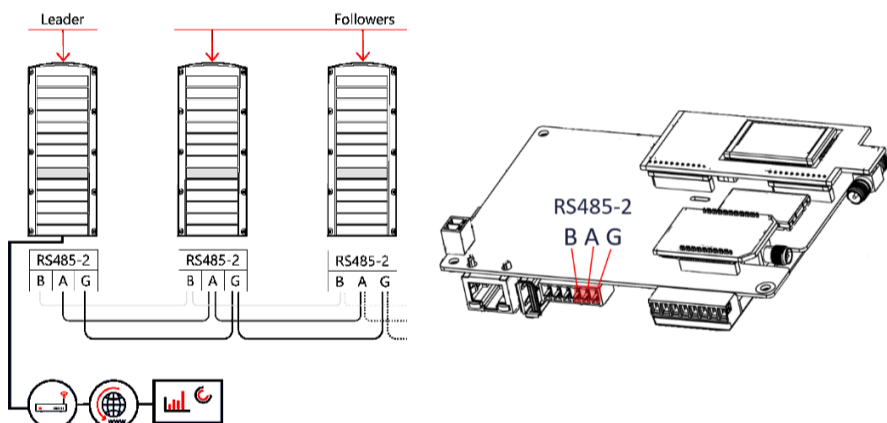
The following figure shows the communication connectors.



1. Cellular plug-in antenna connector (Optional plug-in connecting to the monitoring system).
2. Plug-in antenna connector of SolarEdge home network (supplied with pre-installed antenna).
3. CAN Bus connector for battery interface: Use a six-wire, shielded twisted pair cable with RJ45 connector or CAT5e/6 twisted pair straight Ethernet cable with RJ45 connector.
4. RS485-2 follower inverters connector: Use CAT 5e/6 3-wire, shielded, twisted pair (0.2- 1 mm²).
5. RS485-1 Meter Connector (if a backup interface is not used): Use CAT6 3-wire, shielded, twisted pair (0.2- 1 mm²).
6. Ethernet connector: Use CAT5e/6 cable with twisted pair wires and RJ45 connector.
7. Seven-pin socket of backup interface: Use 5-wire shielded twisted pair cable, 600V insulated or CAT6. Three-pin Connector (if a backup interface is not used): Use CAT6 3-wire, shielded, twisted pair (0.2- 1 mm²). Plug the 3-pin connector to the left side of the seven-pin socket.

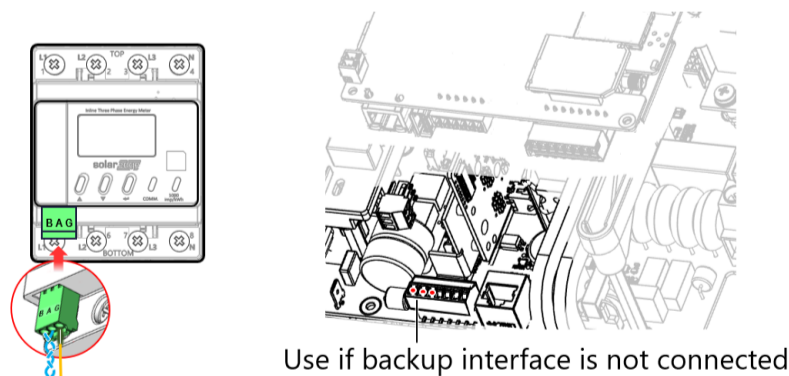
Chaining Inverters

Connect the RS485-2, BAG terminals of the communication board of the Leader inverter to the BAG terminals of the communication board of the Followers. The following figure shows how to connect a chain of inverters to the monitoring system.



Connecting to a Meter

The following figure shows how to connect a meter to the inverter.



Commissioning and Setting and Operation

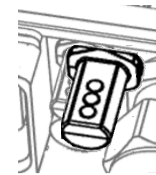
Hold On/Off/P switch in P position for 5 seconds and release. Run the SE SetApp application on your mobile device and follow the on-screen instructions.



To configure communication with the Monitoring Platform: From the Commissioning menu, select Monitoring Communication > Auto Select. SetApp will automatically detect your connection method. Follow the on-screen instructions to complete the configuration and establish communication with the monitoring platform.

LED indications: Green: power production, Blinking Green: Grid connection ok, Blue: communication ok, Red: fault. For more indications refer to: <https://www.solaredge.com/leds>

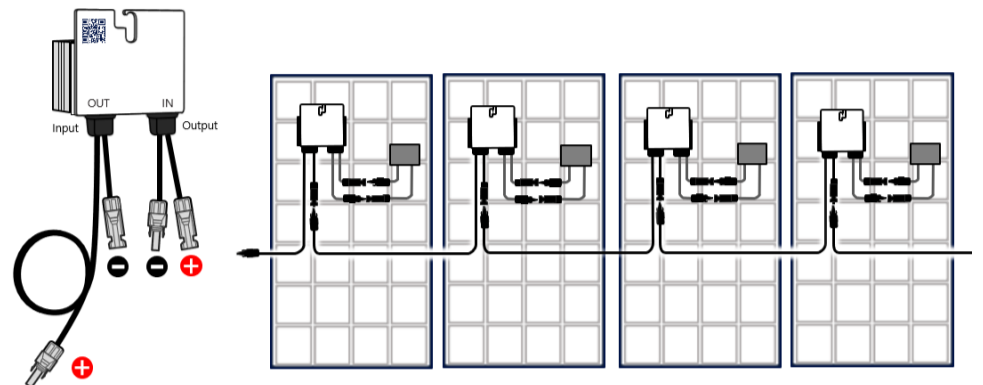
The following figure shows the LED indicators.



For remote status, fault indications, and system performance, refer to Remote Monitoring at: <https://www.solaredge.com/products/pv-monitoring#/>

PV String Connection

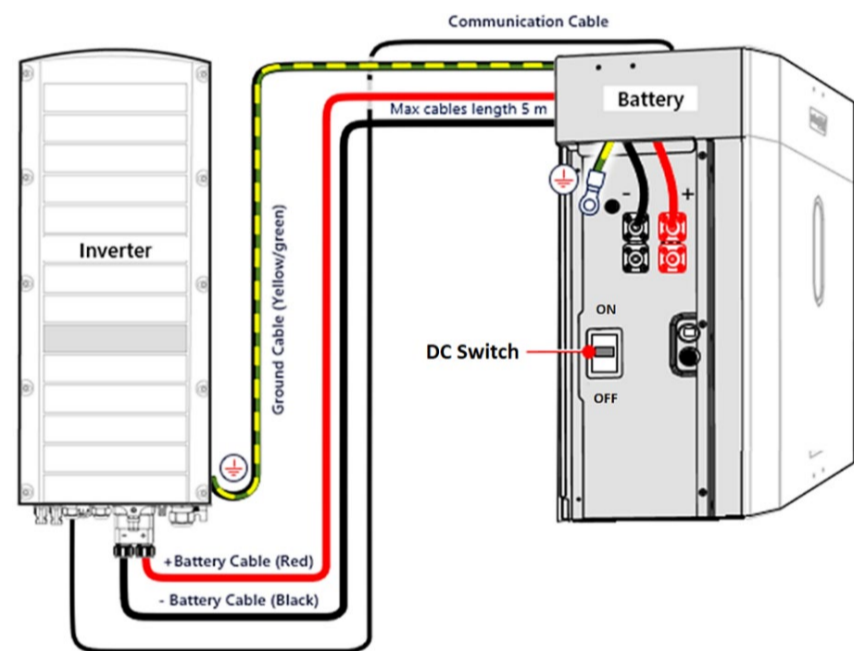
NOTE: Use PV modules with IEC 61730 Class A rating. The following figure shows the connection of the power optimizers in a PV string.



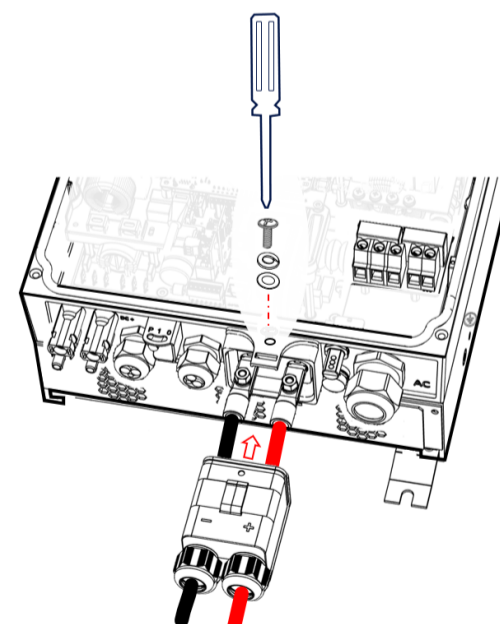
Battery Connection

CAUTION! Before making any connection to the inverter, make sure that the battery DC Switch is OFF.

The following figures show how to connect a SolarEdge battery to the inverter.



IMPORTANT: When connecting the DC cables, keep the correct order of the washer and spring washer, as shown in the figure below. Fasten the securing screw of the cables cover to a torque of 2.2 N*m.



General Information

This product does not require maintenance