

SolarEdge Home Battery 400V Connection and Configuration - Application Note

Revision History

Version 1.2, September 2024: Changed Energy Bank to Home Battery 400V. Removed the section; Running a self-battery test.

This application note explains how to connect the SolarEdge Home Battery 400V to a SolarEdge inverter and configure it using SetApp.

Connect DC and communication cables

SolarEdge strongly recommends using the SolarEdge Home Network to set up communication between the battery and the inverter. If the SolarEdge Home Network is unavailable you can set up communication using an RS485 port, as explained in this [section](#).

Use the following cable types:

- **DC:** 6 mm² (6–10 mm²), 600V insulated.
- **Communication:** CAT6 and higher with shielding protection of the twisted pairs of wires and an outer foil or braided shielding, wire cross-section area 0.2- 1mm².



WARNING

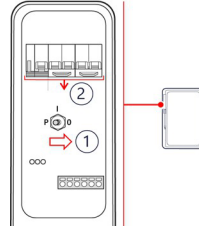
Read all the handling and safety instructions carefully in the installation guides that come with the battery and the inverter.

WARNING



Before connecting the battery inverter, power off the SolarEdge Home Battery 400V.

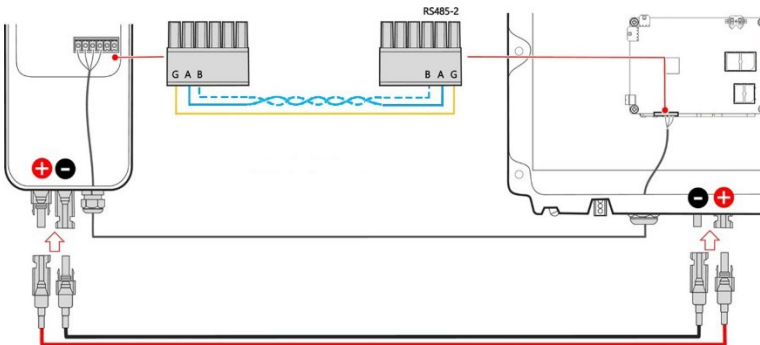
1. Toggle the P/1/0 switch to **OFF** "0".
2. Turn off the battery circuit breaker.



Home Wave Single Phase Inverter for Europe

To connect communication:

1. Connect the communication cable to the battery's RS485 connector, as displayed below.
2. Open the communication gland at the bottom of the inverter.
3. Feed the other end of the communication cable through one of the gland openings.
4. Remove the RS485 connector from the communication board.
5. Use the wires from the same twisted pair for the A and B wires between the battery and the inverter.
6. On the inverter side, connect the communication cable to the RS485-1 port, as displayed below.
7. Close the communication gland with a 5.5 N·m.

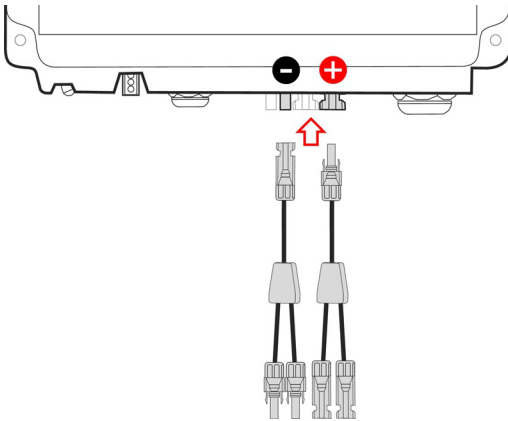


To connect DC cables:

1. Connect the DC cables to the battery, as displayed in the image above.
2. Connect the other ends of the DC cables to DC inputs at the bottom of the inverter.

WARNING Connect the cables at the correct polarity. Connecting the cables at a reverse polarity may damage the inverter or the battery.

3. If both pairs of DC inputs are already occupied by PV strings, use branch connectors (these are not provided), and refer to [Connecting the Home Hub inverter and the Home Wave single-phase inverter to multiple 400V Home Batteries Application Note](#).



Commission the Home Battery

To commission the Home Battery, watch the [Commissioning SolarEdge Home Battery 400V with SolarEdge Home Network](#) video.