



Installation Steps

1. Ensure the intended battery system is compatible with the Levelise Hub
2. Mount the Hub securely on the wall
3. Connect the battery system to its electrical supply from the distribution board via the Hub
4. Finish the installation of the battery system according to the manufacturer's instructions
5. Connect the (RS485) data cable between the Hub and the battery system
6. Connect the Hub to the internet
7. Commission the Hub (by the installer)
8. Register the customer (by the customer)

1 Package Contents



Hub



Drill Template



Registration Leaflet



Cable Glands



Gland Size Reducers



Grommets



Ethernet Patch Cable



SolaX RS485 Cable



Wago Connectors



Fixing Kit

2 Required Tools



Screwdrivers



Hammer Drill & 6mm Drill Bit



Spirit Level



Marker Pen



Smart Phone



Conical Drill Bit



RJ45 Crimp Kit



Cat5 Cable



Wire Strippers



Pliers

3 Installation Overview

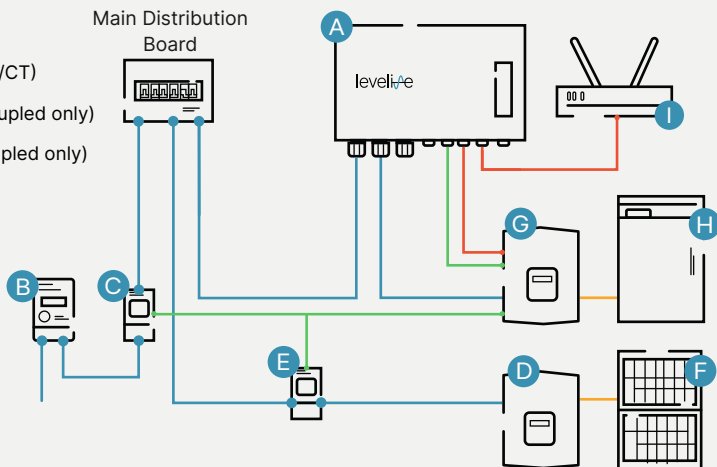
- A Levelise Hub
- B Smart Meter
- C Grid Sensor (Meter/CT)
- D PV Inverter (AC-coupled only)
- E PV Sensor (AC-coupled only)
- F PV Array
- G Battery Inverter
- H Battery
- I Broadband Router

Ports & Cable Entries:

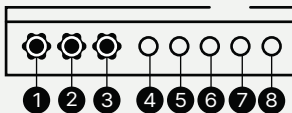
- 1 AC Grid
- 2 AC Batt Inv
- 3 AC PV (Optional)
- 4 RS485 Meters (Optional)
- 5 COM-IC Batt Inv Com
- 6 LAN Internet
- 7 LAN Batt Inv (Optional)
- 8 USB (Diagnostics only)

Main Distribution Board

Example Single Line Diagram



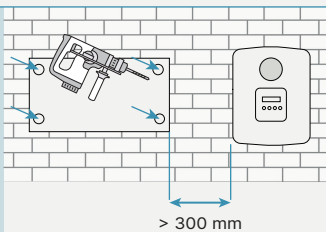
View from below:



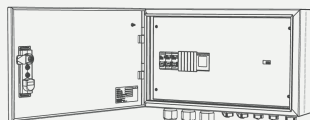
- AC Cable
- DC Cable
- Cat5e/6 (RS485)
- Cat5e/6 (Internet)

4 Mounting

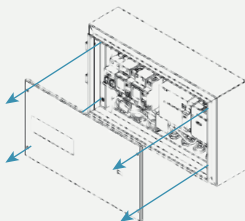
1. Use drill template to position mounting holes



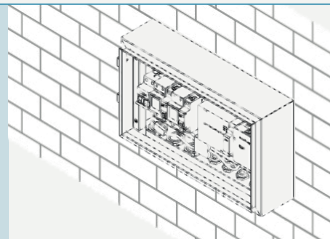
2. Open enclosure door



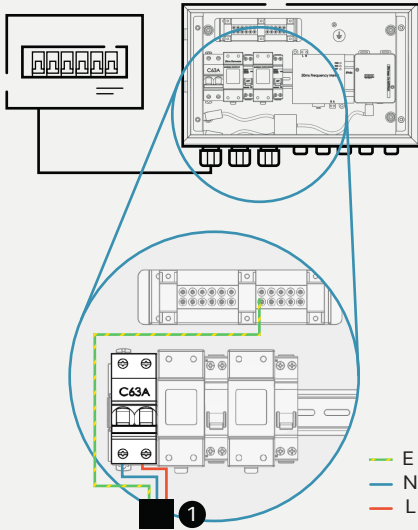
3. Remove inner panel



4. Fix to wall

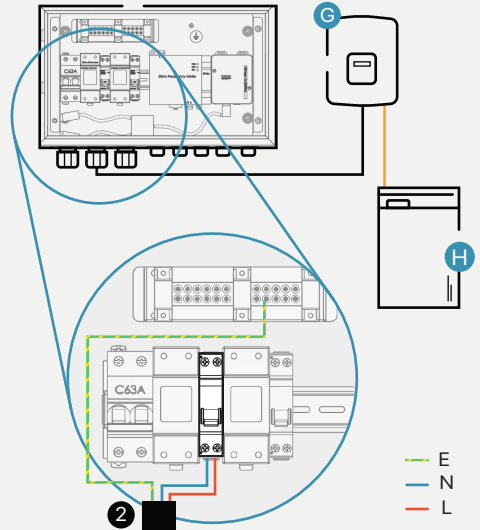


5 Grid Connection



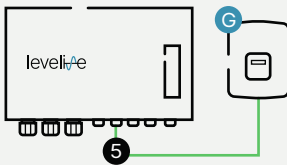
1. Connect grid to the 63A MCB
2. Connect earth to earth bar

6 Battery Connection



1. Connect battery inverter AC output to leftmost 32A MCB
2. Connect earth to earth bar

7 RS485 Comms to Battery Inverter



— Solax RS485 Cable / customised patch cable

For compatible Solax products:

1. Plug the Solax RS485 Cable end labelled 'Hub RS485' into the Hub port marked 'COM-IC Batt Inv COM'

2. Plug the end labelled 'SolaX COM' into the inverter port marked 'COM/LCD'

IMPORTANT

Maintain a 50mm gap between the comms and power cables

For other compatible brands:

1. Modify one end of a standard Ethernet cable to match the RS485 pinout for your inverter brand:

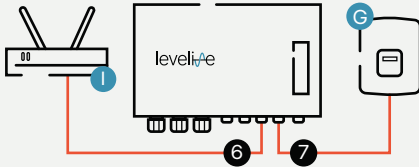
Brand	Connector	Orange Wire (RS485 A+)	Blue Wire (RS485 B-)
Afore	RJ45	Pin 3	Pin 6
Alpha ESS	RJ45	Pin 5	Pin 4
Fox ESS	Proprietary	Pin 4	Pin 3
SolaX	RJ45	Pin 4	Pin 5

2. Connect the unmodified end to the Hub port labelled 'COM-IC Batt Inv COM'

3. Connect the modified end to the inverter's RS485 port

For detailed guides by manufacturer, visit support.levelise.com/

8 Internet Comms



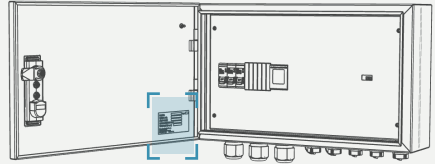
— Ethernet Patch Cable

1. Plug one end of the Ethernet Patch Cable into the port marked 'LAN Internet' on the Hub. Plug the other end into a spare network port on the broadband router
2. Optionally, plug a second network cable into the 'LAN Bat INV' port to share the Hub's internet connection with the battery inverter

IMPORTANT

For best reliability avoid using powerline adaptors or Wi-Fi extenders

9 Installer Commissioning

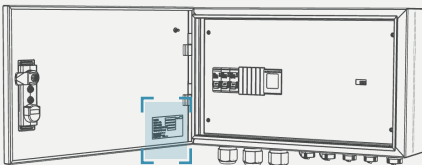


1. Follow the manufacturer's instructions for commissioning the battery
2. Next, scan QR code inside Hub using Levelise app
3. Follow instructions in app

Installer's smart phone

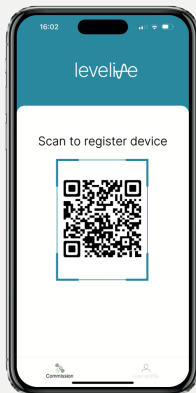


10 Customer Registration



1. Scan QR code on Hub or Leaflet
2. Follow instructions in app

Customer's smart phone



11 Additional Information

For technical support, including written and video guides, visit support.levelise.com/



- The Hub must be installed by a suitably qualified electrician
- Always use two sensors with compatible AC-coupled battery systems—one for grid import/export and one for solar generation. See the support pages for details on how to use the second meter in the Hub as the solar meter
- For optimal performance, use meters instead of CTs whenever possible
- When using CTs, avoid extending the cables as this will impact their accuracy