

Quick Installation Guide

Models: Battery vision pack 2.1 (4.6kWh)

1. Tools Required

The following tools will be required to install the top pack and packs .

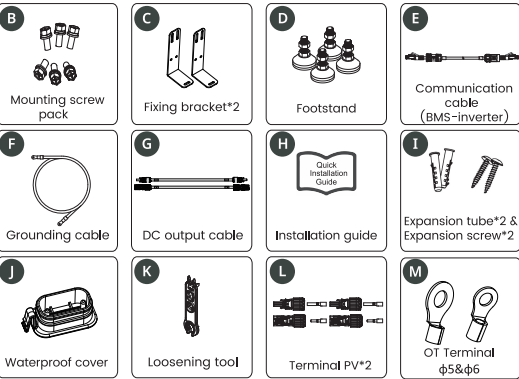


2. Packing List

For packs:

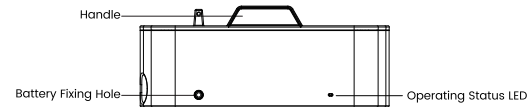


For top pack :

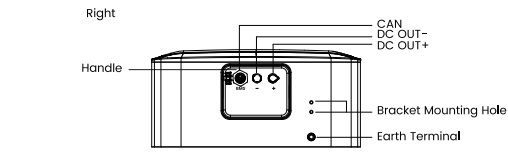
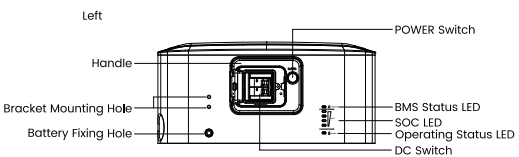


3. Terminals

For packs:



For top pack :



4. Installation Steps

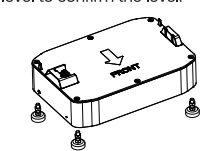


Note: All installation procedures must fully comply with all applicable regional and industry standards, covering cable selection, wiring, protective devices, and overall installation practices.

Note: The ground must be able to support the battery weight, and make sure the floor is hard and leveled.

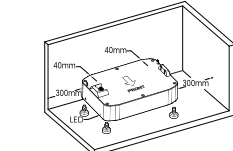
Step 1

Install a pack with four footstand (Item D) and place it on the ground and adjust it to the level. After installing the footstand, use a spirit level to confirm the level.



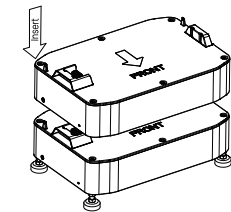
Step 2

Place the battery 40mm against the wall. **Note:** Please make sure the Operating Status LED is on your left handside when you facing the battery model.



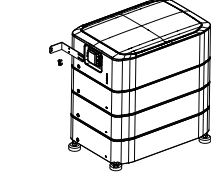
Step 3

Stack the batteries one by one.



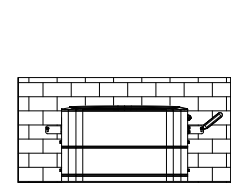
Step 4

Place the two fixing brackets (Item C) close to the wall and install them on both sides of the battery.



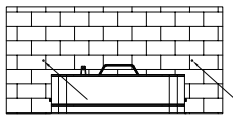
Step 5

Mark the wall through the bracket hole.



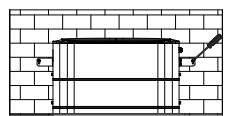
Step 6

Punch after removing the top pack. Drill holes with electric drill, make sure the holes are at least 50mm deep, and then tighten the expansion tubes (Item I).



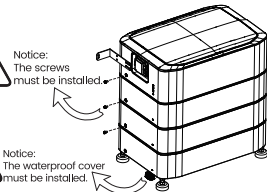
Step 7

After stacking top pack again, fix the battery on the wall.



Step 8

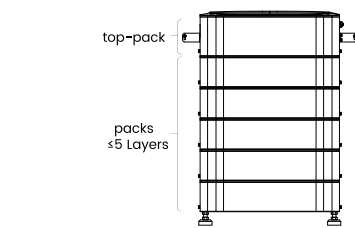
Fix the mounting screw packs on both sides of the battery. Insert the waterproof cover (Item J) into the bottom of the battery and lock it in place with the clip.



Note:

To disassemble the battery system, first shut down the battery system. Then remove the waterproof cover, and remove the top pack and packs in sequence as specified in the user manual.

Note: Please make sure each system including 1 top pack and 1 pack. Pack less than 5(1-5) pieces:



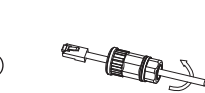
Note: When used with an inverter, the battery system voltage must meet the inverter battery port voltage range.

5. Wiring Steps

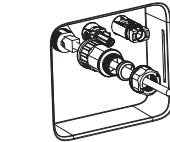
Step 1: Communication cable (Item E) installation procedure.

Note: Please use the side labeled BAT to connect to the battery and the side labeled INV to connect to the inverter.

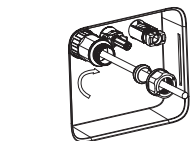
a. Open the tail lock wire nut.



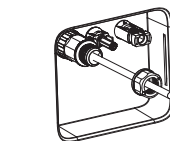
b. Plug communication cable RJ45 into the battery BMS port.



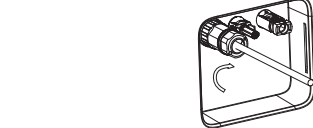
c. Use an open-end spanner to lock the body onto the RJ45 board end connector; torque: 1.2±0.2N·m.



d. Install the sealing plug into the main body.



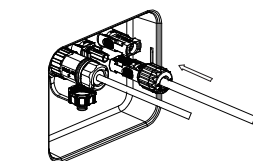
e. Use an open-end spanner to lock the thread locking nut onto the main body.



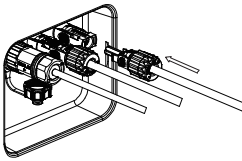
Step 2: Power cable (Item G) installation procedure.

Note: Please use the side labeled "+" and "-" to connect to the battery.

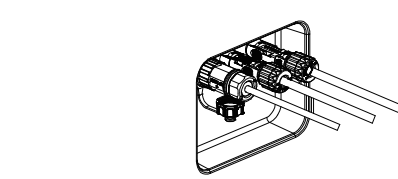
a. DC- output cable installation.



b. DC+ output cable installation.

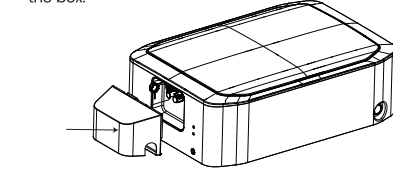


c. DC output cable installation is completed.

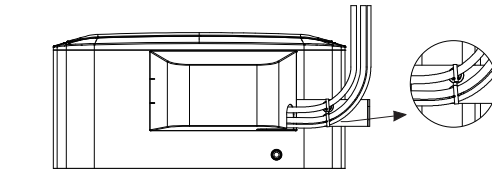


Step 3: Install the cable cover.

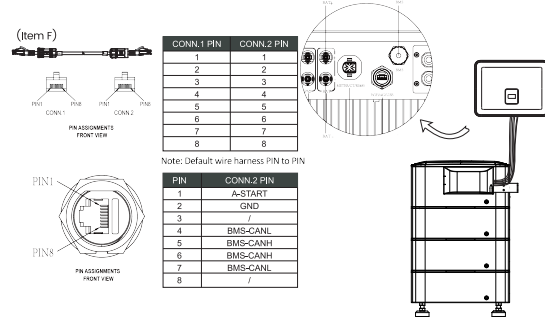
a. Install the cable cover. First, fit the buckle on the other side into the groove of the box. Then, press the buckle to insert it into the groove of the box.



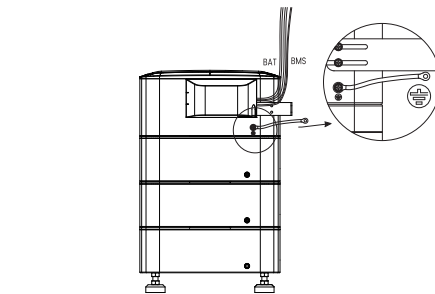
b. Tie the power wire tightly with the cable ties and cut off the excess.



Step 4: Insert the battery DC cable to the BAT+/BAT- and the communication cable to the BMS port at the bottom of the inverter and screw the sealing plug tightly.



Step 5: Connect the grounding cable.



6. System Operation

- When the grid connected system is started, the inverter should be turned on first to avoid the current pulse of the inverter increasing to the battery pack.
- All installation and operation must comply with local electrical standards.
- Check all power cables and communication cables carefully.

System Start Up:

When the inverter is connected to the PV and the grid and both are operating normally, turn on the battery DC Switch. Press the POWER S switch and hold it for 3 seconds, then release. The Status LED is blinking green and indicates that the system is working normally.

System Shut Down:

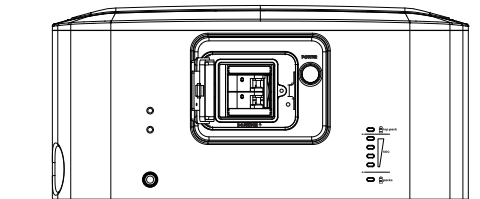
Press and hold the POWER Switch for at least 5 seconds until all of the main battery LEDs (BMS Status LED and SOC LED) begin blinking. Once they start blinking, release the switch. The lights will automatically turn off after 5 seconds. Then, turn off the DC Switch.

System Black Start:

Under special circumstances when both PV and Grid power are out of order, the battery can be activated through the "Black Start" function. This means that our energy storage inverter and battery can continue to operate. The startup steps for Black Start are as follows:

- Turn on the DC Switch, press and hold the "POWER" button for 3 seconds, then release.
- Press the "POWER" button three times in succession within 4 seconds (Complete within 30 seconds after the battery system starts up).
- The Status LED remains solid green, indicating successful activation of Black Start mode.

Note: Ensure correct battery-inverter connection prior to Black Start. No wiring modifications during black start.



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