

Quick Installation Guide

Models:

EQ2900/EQ3300/EQ4300/EQ4350/EQ5000/EQ6000 Plus/EQ7000 Plus

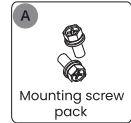
1. Tools Required

The following tools will be required to install EQ-M(Main module) and EQ-S(Sub module), including batteries with and without warm up function.

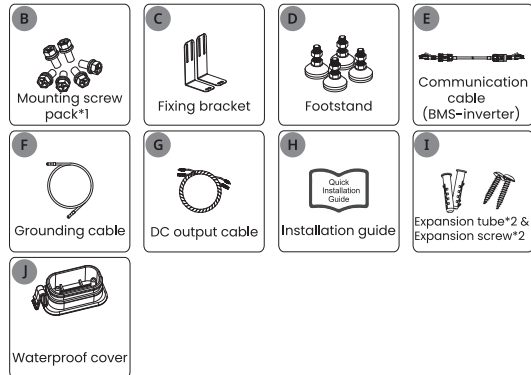


2. Packing List

For EQ-S:

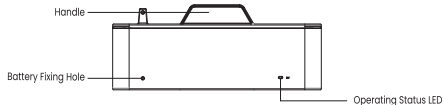


For EQ-M:

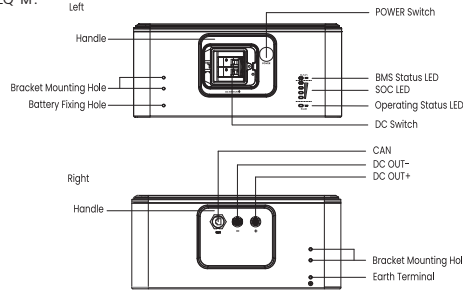


3. Terminals

For EQ-S:



For EQ-M:

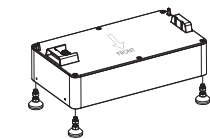


4. Installation Steps

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

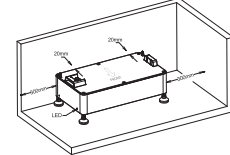
Step 1

Install a EQ-S with four footstand (Item D) and place it on the ground and adjust it to the level. After installing the footstand, use a track level bar to confirm the level.



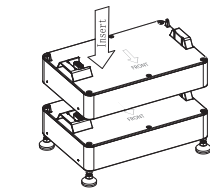
Step 2

Place the battery 20mm against the wall. **Note:** Please make sure the Operating Status LED is on your left handside when you facing the battery model.



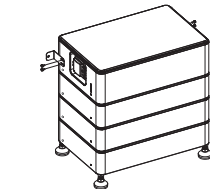
Step 3

Stack the batteries one by one.



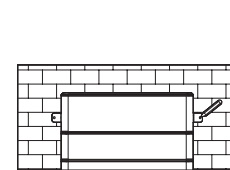
Step 4

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



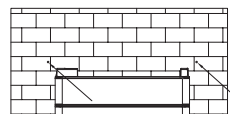
Step 5

Mark the wall through the bracket hole.



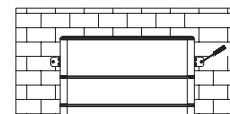
Step 6

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



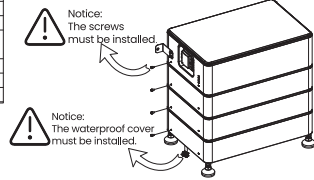
Step 7

After stacking EQ-M again, fix the battery on the wall.



Step 8

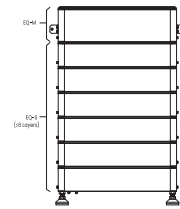
Fix the mounting screw packs on both sides of the battery. Insert the waterproof cover (Item J) into the bottom of the battery and lock it in place with the clip.



Note:

To disassemble the battery system, first shut down the battery system. Then remove the waterproof cover, and remove the EQ-M and EQ-S modules in sequence as specified in the user manual.

Note: Ensure that each system has only 1 EQ-M and a maximum of n EQ-S, where n=6 for EQ2900/EQ4300/EQ6000 Plus, n=5 for EQ3300/EQ4350/EQ5000 and n=4 for EQ7000 Plus.



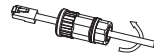
Note: When used with an inverter, the battery system voltage must meet the inverter battery port voltage range.

5. Wiring Steps

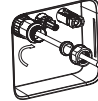
Communication Cable Installation Procedure

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

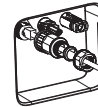
Step 1: Open the tail lock wire nut.



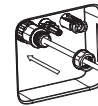
Step 3: Use an open-end spanner to lock the body onto the RJ45 board end connector; torque: 1.2±0.2N·m.



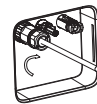
Step 2: Plug communication cable RJ45 into the battery BMS port.



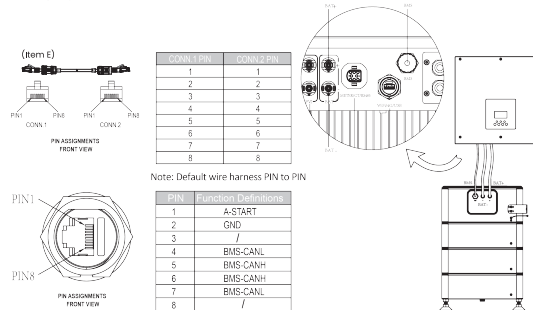
Step 4: Install the sealing plug into the main.



Step 5: Use an open-end spanner to lock the thread locking nut onto the main body.



Step 6: Insert the cable connector into BMS port at the bottom of inverter and screw it tightly.

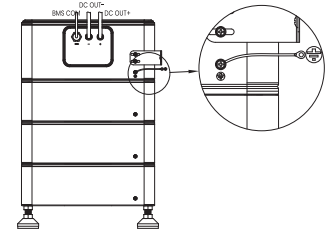


CONN 1	CONN 2
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Note: Default wire harness PIN to PIN

PIN	Function Definition
1	A-START
2	GND
3	/
4	BMS-CANL
5	BMS-CANH
6	BMS-CANH
7	BMS-CANL
8	/

Connect the grounding cable. The figure is shown in below.



6. System Operation

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 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:

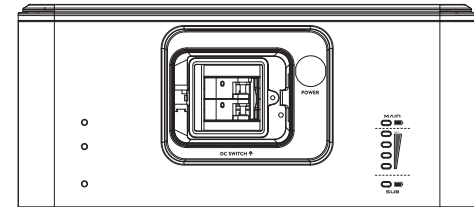
Press and hold the POWER switch for at least 5 seconds until all of the main battery LEDs (BMS Status LED and SOC LED) begin blinking. Once they start blinking, release the switch. The lights will automatically turn off after 5 seconds. Then, turn off the DC switch.

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 Switch" 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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