Quick Installation Guide

Models: EQ4800 EQ5500

1.Tools Required

The following tools will be required to install Main-pack and Support-pack .
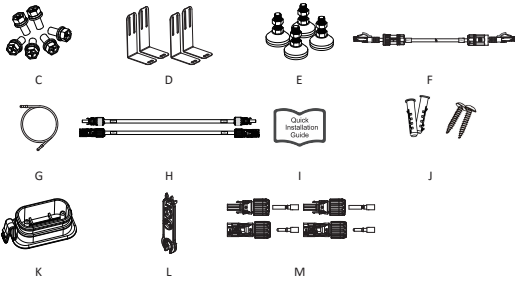
- 6mm Magnetic Phillips Screwdriver
- Crimpers
- Safety Shoes
- Multimeter
- Safety Gloves
- Safety Glasses
- Plier
- Ribbon
- Hammer Drill @φ8mm
- Spirit Level
- Tape
- Marker

2. Packing List

For Support-pack :

No.	Items
A	Mounting screw pack
B	Installation guide

For Main-pack :

No.	Items	No.	Items
C	Mounting screw pack	I	Installation guide
D	Fixing bracket*2	J	Expansion tube*2 & Expansion screw*2
E	Footstand	K	Waterproof cover
F	Communication cable (BMS-inverter)	L	Loosening tool
G	Grounding cable	M	Terminal PV*2
H	DC output cable		

3. Terminals

For Support-pack:

- Handle
- Battery Fixing Hole
- Operating Status LED

For Main-pack :

- Left
- Handle
- Bracket Mounting Hole
- Battery Fixing Hole
- B-Start Switch
- POWER Switch
- BMS Status LED
- SOC LED
- Operating Status LED
- DC Switch

(Right)
- Handle
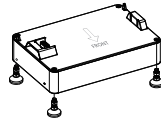- CAN
- DC OUT-
- DC OUT+
- Bracket Mounting Hole
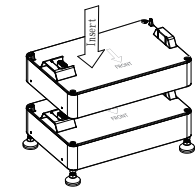- Earth Terminal
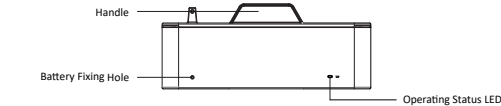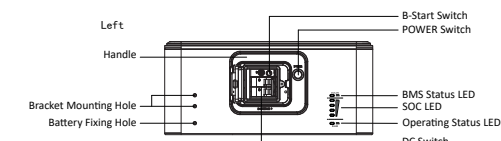
4. Installation Steps

Step 1
Install a Support-pack with four footstand (Item E) 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.
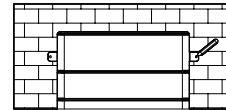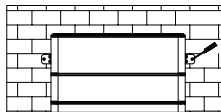
Step 2
Place the battery 20mm against the wall. Note: Please make sure the Operating Status LED is on your left handside when you facing the battery model.

Step 3
Stack the batteries one by one.
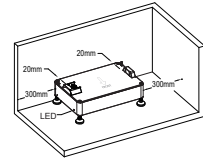
Step 4
Place the two fixing brackets (Item D) close to the wall and install them on both sides of the battery.

Step 5
Mark the wall through the bracket hole.

Step 6
Punch after removing the Main-pack. Drill holes with electric drill, make sure the holes are at least 50mm deep, and then tighten the expansion tubes (Item J).

Step 7
After stacking Main-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 K) into the bottom of the battery and lock it in place with the clip.

⚠ Notice: The screws must be installed.

⚠ Notice: The waterproof cover must be installed.

Note:
To disassemble the battery system, first shut down the battery system. Then remove the waterproof cover, and remove the Main-pack and Support-pack modules in sequence as specified in the user manual.
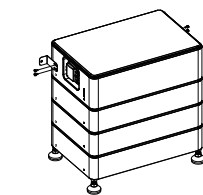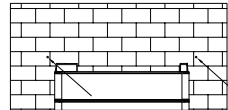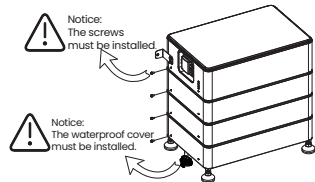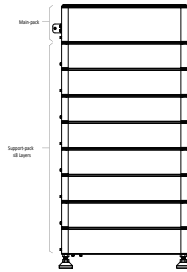
Note: Please make sure each system including 1 Main-pack and 1 Support-pack.Support-pack less than 8(1~8) pieces:

- Main-pack
- Support-pack all Layers

Note: Installation location instructions for fixing brackets (Item D):
L : number of layers in the battery system.
When L ≤ 6, a pair of Item D is installed on Main-pack;
When L > 6, a pair of Item D is installed on Main-pack, and install an additional pair of Item D in the middle layer of the Support-pack modules.

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

The installation of the junction box
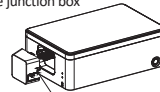
First, fit the buckle on the other side into the groove of the box. Then, press this buckle to insert it into the groove of the box.

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.
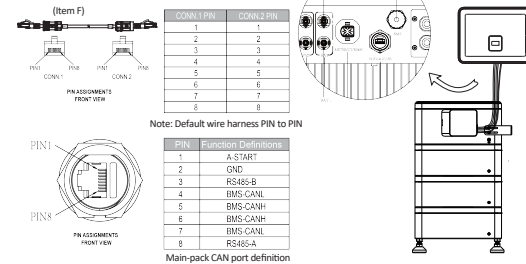
Step 1: Open the tail lock wire nut.

Step 2: Plug communication cable RJ45 into the battery BMS port.
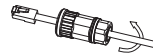
Step 3: Use an open-end spanner to lock the body onto the RJ45 board end connector; torque: 1.2±0.2N·m.

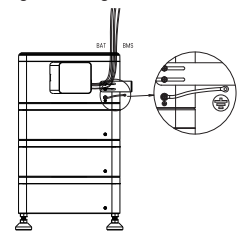**Step 4**: Install the sealing plug into the main.
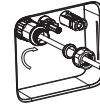
Step 5: Use an open-end spanner to lock the thread locking nut onto the main body.
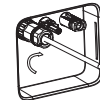
Step 6: Insert the cable connector into BMS port at the bottom of inverter and screw it tightly.

(Item F)

PIN ASSIGNMENTS FRONT VIEW

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

Note: Default wire harness PIN to PIN

PIN ASSIGNMENTS FRONT VIEW

PIN	Function Definitions
1	A-START
2	GND
3	RS485-B
4	BMS-CANL
5	BMS-CANH
6	BMS-CANH
7	BMS-CANL
8	RS485-A

Main-pack CAN port definition

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

6. System Operation

1. 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.
2. All installation and operation must comply with local electrical standards.
3. Check all power cables and communication cables carefully.

System Start Up:
First turn on DC Switch and then press the POWER Switch, firstly main battery LED will light up once, and then the BMS Status LED will light up for 0.5s, Operating Status LED will light up for 1s at the same time, it means that the system works normally.

System Shut Down:
First turn off the POWER Switch, and then turn off the DC Switch, all LEDs are off when POWER Switch is turned off.
After shutting down the system, there is no current flow between the support units.

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 start up steps for Black Start are as follows:

1. First turn on DC Switch and the then press the POWER Switch.
2. Please press and hold the B-Start Switch for 5 seconds. (Complete within 30 seconds after the battery system starts up).
3. 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.
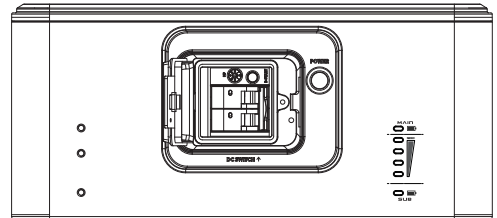
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