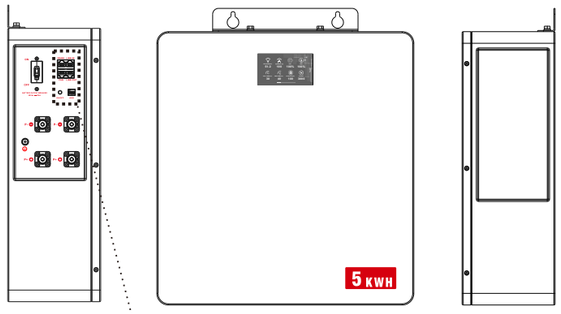
Installation Guide

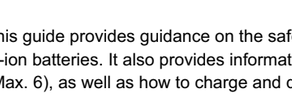
This guide provides guidance on the safe and effective installation and operation wall mounted Li-ion batteries. It also provides information on how to safely connect multiple batteries in parallel (Max. 6), as well as how to charge and discharge the batteries.

⚠ CAUTION

- *Due to the regulations governing the transportation of Lithium Ion cells and batteries internationally. The battery is only 50% SOC during transport. Please charge battery fully in the first use.*
- *Before connecting any electrical cable, turn OFF all the switches and breakers and turn OFF the batteries by press the ON/OFF button.*
- *Avoid any fall or collision during the installation process.*
- *Do not remove the battery components. The maintenance of the battery should be carried out by a professional engineer.*
- *Do not expose the Li-ion battery to heat in excess of 55°C during operation, 60 °C in storage.*

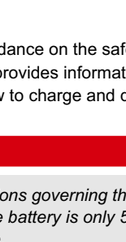
System Introduction





Power Terminal

M6*13 threaded hole
Torque: 2.9~3.5N.M



RS485 PIN MAP

RJ45 PIN	Description
1	RS485_B
2	RS485_A
3,4,5,6,7,8	NC

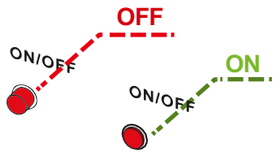
CAN PIN MAP

RJ45 PIN	Description
1,2,3,4,5,6	NC
7	CAN_H
8	CAN_L

LINK-IN/OUT PIN MAP

RJ45 PIN	Description
1,2,3,4,5,6	NC
7	RS485-2_A
8	RS485-2_B

ON/OFF Button



During in transport, BMS ON/OFF button is at OFF status. it will turn off the BMS power supply.

By press ON/OFF button to active BMS to enter into working mode and the battery voltage will can be measured by terminal and LCD start to display battery information

Even if the button is at ON mode, The BMS will enter into dormancy mode after 24 hours when there are no charge, no discharge and no communication. it can be activated again by charge or communication or repress ON/OFF button.

1 Unpacking Inspection

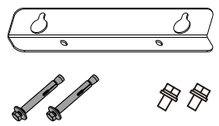
1. Unpack the battery and visually inspect the appearance. If any shipping damage is found, notify the carrier immediately.

2. Press ON/OFF button to active the battery, the LCD display will be light. turn on MCB to measure the output voltage by multimeter, For parallel application, the voltage difference should less than 500mV.

3. Press ON/OFF button to shutdown the battery, the LCD display will turn off.

4. Check the accessories which should include:

1.4.1. Accessories for 5KWH (51.2V100Ah)



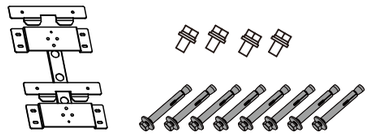
Accessories for wall mounted
Bracket for wall mounted-1pc
Stainless steel expansion screws M6*80mm-2pcs
Outer hexagon inner cross combination bolt _M6X16mm screws-2pcs

Power cable -Black, Red.
100A
25 mm2 high flexible wire,
SC25-8 & SC25-8, L=1000mm

Communication cable-586B,CAT5e, 1m- 1pc
Rj45 terminal-2pcs

User manual -1pc
Installation guide -1pc

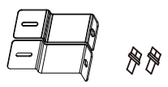
1.4.2. Accessories for 10KWH (51.2V200Ah)



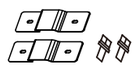
Accessories for wall mounted
Bracket for wall mounted - 1set
Stainless steel expansion screws M8*80mm-8 pcs
Outer hexagon inner cross combination bolt _M8X16mm screws-4 pcs

Power cable -Black, Red.
150A
35 mm2 high flexible wire,
SC35-8 & SC35-8, L=1000mm

Communication cable-586B,CAT5e, 1m- 1pc
Rj45 terminal-2pcs



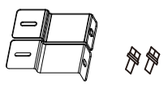
Accessories for floor mounted (prevent tilt)
Bracket for floor mounted-2pcs
Outer hexagon inner cross combination bolt _M6X16mm screws -2 pcs



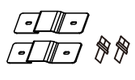
Parallel parts for floor mounted -2pcs
Outer hexagon inner cross combination bolt _M6X16mm screws - 2 pcs

User manual -1pc
Installation guide -1pc

1.4.3. Accessories for 15KWH (51.2V280Ah)



Accessories for floor mounted (prevent tilt)
Bracket for floor mounted-2pcs
Outer hexagon inner cross combination bolt _M6X16mm screws -2 pcs



Parallel parts for floor mounted -2pcs
Outer hexagon inner cross combination bolt _M6X16mm screws - 2 pcs

Power cable -Black, Red.
150A
35 mm2 high flexible wire,
SC35-8 & SC35-8, L=1000mm

Communication cable-586B,CAT5e, 1m-1pc
Rj45 terminal-2pcs

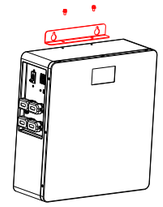
User manual -1pc
Installation guide -1pc

2 Mechanical Installation

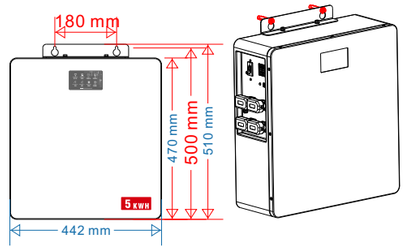
2.1. Wall mounted for 5KWH

Take out wall mounted accessories which include bracket and screws,

Fix the bracket on the battery and remove the floor mounted part on the bottom of battery.



Drill 2 pcs Φ8 *80mm holes on the wall, fix wall mounted part on the wall and install the screw head of the expansion bolts

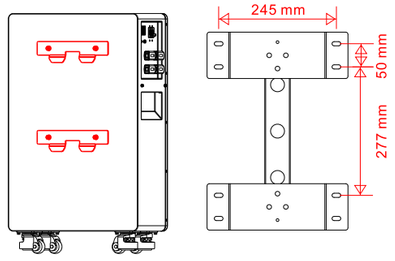


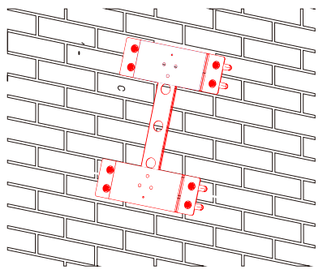
2.2. Wall mounted for 10KWH

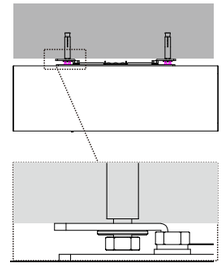
Take out wall mounted accessories which include bracket and screws,

Fix the bracket on the battery.

Drill 8 pcs Φ10 *110mm holes on the wall, fix wall mounted part on the wall and fasten the screw head of the expansion bolts.







Note:

- *Remember that the battery is heavy !* Please be careful when *doing operation.*
- *Use a proper hammer to fit the expansion bolt into the holes. The screw head protruding too long may interfere with the battery cabinet.*

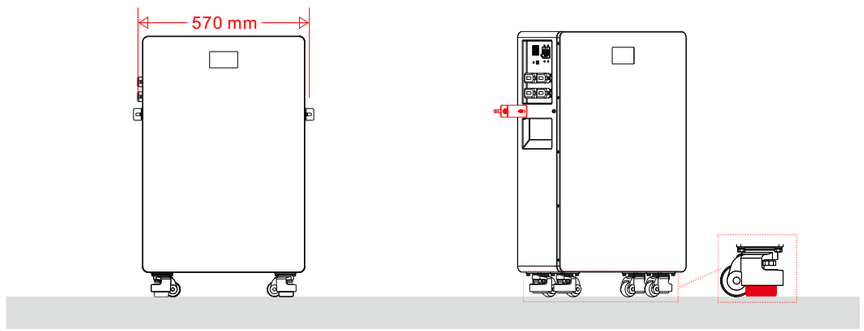
Installation Guide

2.4. Floor mounted for 10KWH(51.2V200Ah) and 15KWH (51.2V280Ah)

Take out floor mounted accessories which include bracket and screws, Fix the bracket on the battery.

Drill 2 pcs Φ10 *110mm holes on the wall,

Fix the battery to the wall and adjust the casters to prevent the battery from tipping



3 Cable Connection

3.1 Single inverter with single battery

Step 1. Make sure the battery breaker is in off condition. Connect the power cable to inverter. Make sure the screws are tight.

Step 2. Connect the communication cable.

Step 3. Set the battery module ID by ADD. **The master battery which do communication with inverter ADD must be 1**.

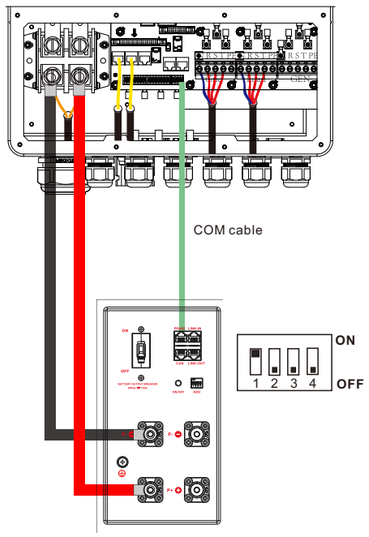
Step 4. Make sure the inverter had be installed correctly.

Step 5. Press ON/OFF button to active the battery BMS and check inverter protocol on LCD (detail operation refer to user manual)

Step 6. Turn on battery breaker and the inverter will be activated, set the inverter (battery type and protocol).

Step7. If the communication between BMS and inverter is nominal, the SOC, temperature information of battery and inverter display will be totally same.

Step8. **Charge the batteries fully in first use.**

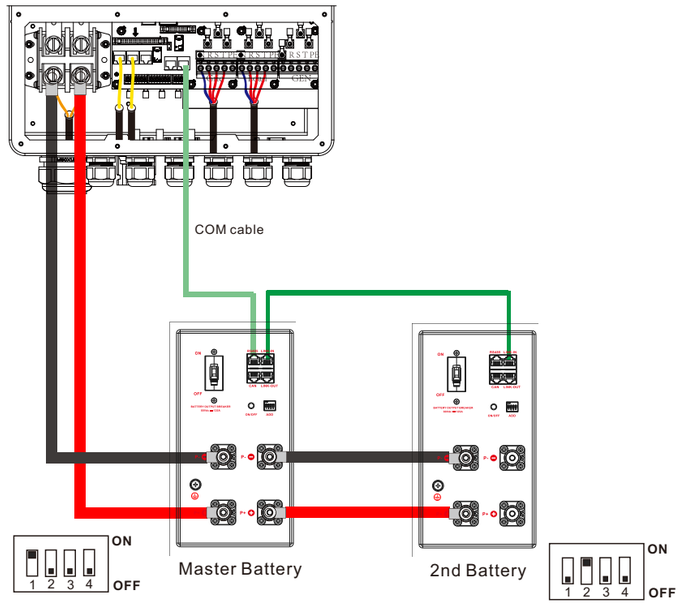


Note:

- *For 1pcs 5KWH battery, it max support 5KVA inverter or the real load power consumption is less than 5KW.*
- *For 1pcs 10KWH-150A battery , it max support 8KVA inverter or the real load power consumption is less than 7KW.*
- *For 1pcs 15KWH-150A battery , it max support 8KVA inverter or the real load power consumption is less than 7KW.*

3.2 Single inverter with 2 batteries

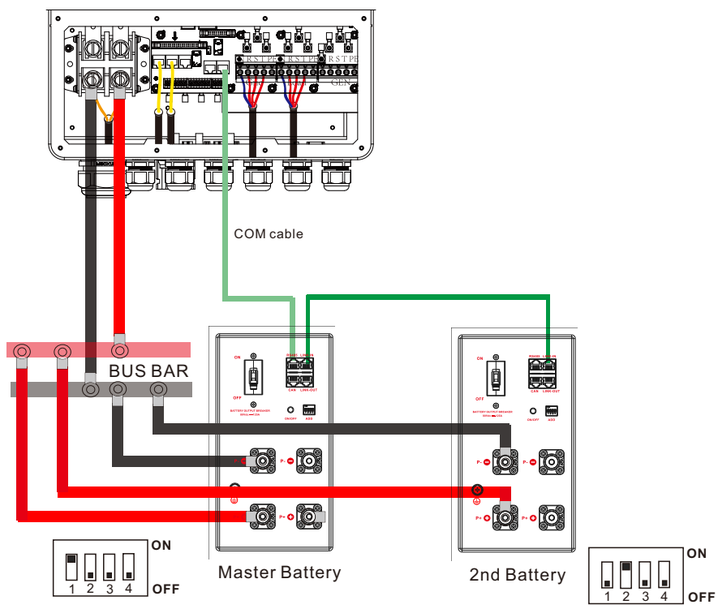
The below power cable connection can't increase current. can support prolong the backup time.



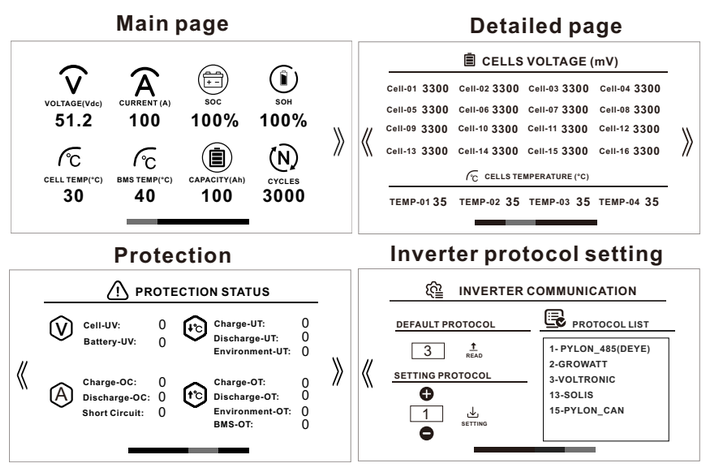
3.3 Single inverter with 2 batteries

The below power cable connection can increase current to support big capacity inverter.

The length of power cable should be the same.



4 LCD Display



5 Bluetooth APP (Optional)

The Bluetooth module is an optional accessory. If the battery integrate Bluetooth module inside, the devide ID (RDAC*****) label can be seen on the outside of battery.

The bluetooth APP (Name: Bluetooth Li) is provided for checking battery detailed information.

Bluetooth Li

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