

RES20010K, RES1005K 51.2V Li-ion Battery

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.

A 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



ON/OFF Button

→ OFF mode

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

Characteristic ON mode

By press ON/OFF button to active BMS to enter into working mode, if the MCB is also ON, the battery voltage will can be measured by terminal.

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.

Unpacking Inspection

voltage difference should less than 500mV.

4. Check the accessories which should include:

notify the carrier immediately.

4.1. Accessories for RES1005K

2 pcs outer hexagon inner cross combination bolt _M6X16mm

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4.1. Accessories for RES20010K

Accessories for floor mounted (prevent tilt)

Bracket for floor mounted

2 pcs power cable

25 mm2 high flexible

wire, SC25-6 & SC25-8,

Black, Red. 100A

I =1500m



bottom of battery.



screws

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

2. Press ON/OFF button to active the battery, the SOC and RUN indicator will be light.

turn on MCB to measure the output voltage by multimeter, For parallel application, the

3. Press ON/OFF button to shutdown the battery, the indicator light will turn off.

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4 pcs stainless steel expansion screws M8*100mm

2 pcs outer hexagon inner cross combination bolt M8X16mn

Accessories for wall mounted

Bracket for wall mounted

1pc Communication 1pc cable-586B,CAT5e, 2m User manual 2pcs RJ45 terminal

Optional Part RS485-USB device Only for install engineer

Optional Part Wall mounted type parallel parts for distribution box-300A floor mounted

and after-sale engineer. For several batteries or

rters in paralle

Optional Part

- Note:
- operation.

550 mm



Optional Part parallel parts for floor mounted hexagon inner





2 pcs power cable -Black, Red. 100A Version 25 mm2 high flexible wire, SC25-8 & SC25-8, L=1500mm 150A Version 35 mm2 high flexible wire, SC35-8 & SC35-8, L=1500mm 200A Version 50 mm2 high flexible wire, terminal SC50-8 & SC50-8, L=1500mm



1pc Communication

cable 586B,CAT5e 2m 2pcs RJ45



User manua



Accessories for wall mounted

Bracket for wall mounted



8 pcs stainless steel expansion screws M8*100mm

4 pcs outer hexagon inner cross combination bolt M8X16mm screws







2 pcs outer

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Mechanical Installation

2.1. Wall mounted for RES1005K

- Take out wall mounted accessories which include bracket and screws,
- Fix the bracket on the battery and remove the floor mounted part on the
- Drill 4 pcs Φ 10 *110mm holes on the wall, fix wall mounted part on the wall and fasten the screw head of the expansion bolts



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

2.2. Floor mounted for RES1005K





BAT-5KWH, 10KWH 51.2V Li-ion Battery

Cable Connection

4.1 Single inverter with single battery

Step 1. Make sure the battery breaker is in off condition. Connect the

Step 3. Set the battery module ID by

do communication with

inverter ADD must be 1.

Step 4. Make sure the inverter had be

Step 5. Press ON/OFF button to active the battery BMS and connect

battery to PC by BMS PC

Step 6. Turn on battery breaker and the

inverter (battery type and

Step7. If the communication between

Step8. Charge the batteries fully in

software, select inverter protocol

on BMS (detail operation refer to

inverter will be activated, set the

BMS and inverter is nominal, the SOC, temperature information in PC and inverter display will be

installed correctly.

user manual)

protocol).

totally same.

first use.

Note:

power cable to inverter. Make sure the screws are tight. Step 2. Connect the communication

ADD. The master battery which

cable.

2.3. Wall mounted for RES20010K

Take out wall mounted accessories which include bracket and screws,

Fix the bracket on the battery.

Drill 8 pcs 0 10 *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 (96Kg) ! 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.

2.4. Floor mounted for RES20010K





For floor mounted parallel connection, it supports to install as below:

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RS485 to USB cable

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COM cable







capacity inverter.





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- For 1pcs RES20010K-150A battery, it max support 8KVA inverter or the real load power consumption is less than 7KW.
- For 1pcs RES20010K-200A battery, it max support 10KVA inverter or the real load power consumption is less than 8KW.











4.2 Single inverter with 2 batteries

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

4.3 Single inverter with 2 batteries

The below power cable connection can increase current to support big

The length of power cable should be the same.