

HOME-ESS-LV-3.2K Quick Installation Guide





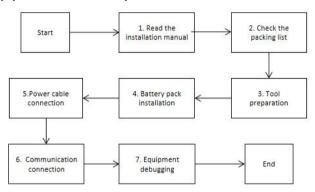
Android APP

ios app

1.Installation Precautions

Flow chart of installation steps:

Please follow the equipment installation steps process to ensure the equipment can be successfully installed.



Schematic diagram of battery interface:

The definition of each interface must be clear during the installation process, otherwise the wrong connection will lead to installation failure or even damage to the equipment.



Please ensure that the installer meets the following requirements:

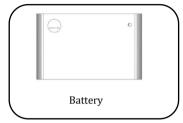
This system should only be installed by personnel with training and adequate knowledge of electrical power systems.

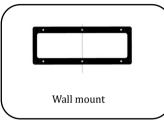
Please make sure the installation location meets the following conditions:

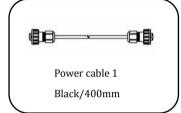
- The installation and use environment need to comply with local laws and regulations and relevant international national and regional standards for lithium battery products.
- Install in a dry, well-ventilated environment and secure the equipment on a sturdy, level support surface.
- Avoid water accumulation in the installation location, and keep away from water sources such as faucets, sewer pipes, sprinklers, etc. to avoid water infiltration
- The environment around the installation location is clean, and there is no large amount of infrared radiation, organic solvents and corrosive gases, etc.
- When the equipment is running, the temperature of the chassis and heat sink will be relatively high, please do not install it in a place where it is easy to touch.
- When the equipment is running, do not block the ventilation openings or cooling system to prevent high temperature fires.
- Please choose a sheltered installation site, or build a awning to avoid direct sunlight or rain.

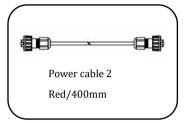
2.Check the Packing List

Please refer to the packing items shown below, please check the packing list carefully, if any items are missing, please contact your dealer directly.







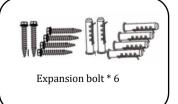














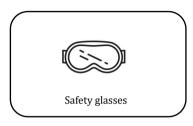


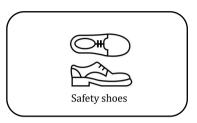


3.Tool Preparation

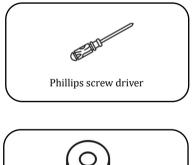
Step 1: Protective equipment products must be worn and maintained during the installation process.

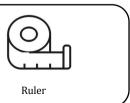


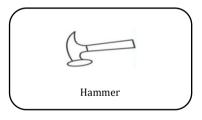


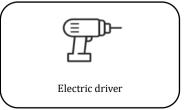


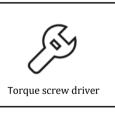
Step 2: Installation Tools: tools needed in the process of installing equipment, more effective to improve installation efficiency.













4.Battery Pack Installation

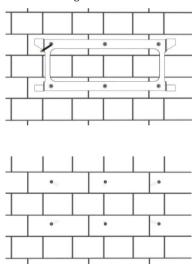
Before you start connecting cables, make sure that the inverter and battery is fully switched off!

Make sure the wall is strong enough to bear the weight of the battery system.

Make sure there is no water source above or near the battery, including downspouts, sprinklers, or faucets.

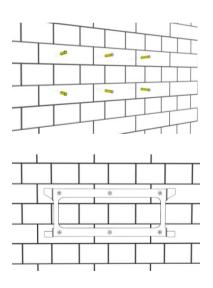
Step 1: Locate drill holes in the wall

Use the bracket as a template to make positioning holes in the wall, mark the positions of the 6 holes, and then drill 10mm holes to ensure that the depth of the holes is greater than 60mm.



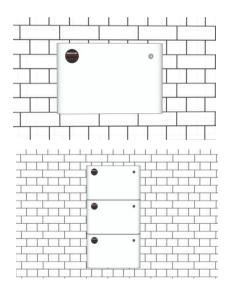
Step 2: Fix the wall mount bracket

Fit the expansion tube into the hole and pull tight, then use the expansion screw to install and secure the wall mount bracket to the wall.



Step 3: Fix the battery module

There is a hook design on the back of the battery box, align and fix it to the positioning groove of the wall bracket for firm support.



5.Power Cable Connection

Step 1: Power connections between two batteries

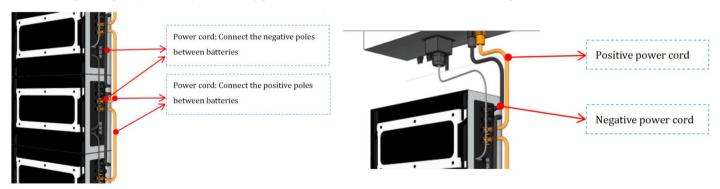
Use power cable 1 to connect the negative pole (P- terminal) of battery pack A to the negative pole (P- terminal) of battery pack B, and use power cable 2 to connect the positive pole (P+ terminal) of battery pack A to the positive pole (P+terminal) of battery pack B.

Step 2: Power connections more than two batteries

Analogy derivation, more than two battery connections, connect the negative poles (P-terminal) between the battery packs, and connect the positive poles (P-terminal) between the battery packs.

Step 3: Connect the battery to the inverter power supply

After the battery is connected according to Step 1-2, connect the negative pole (P- terminal) of the battery pack A and the BAT - terminal of the inverter with the power cable 3; connect the positive pole (P+ terminal) of the battery pack A and the BAT + terminal of the inverter with the power cable 4.



NOTE:

When the inverter is electrically connected, the inverter and batteries need to be powered off. Hear a sound locking into place as the cable connects to the terminal.

It is forbidden to mix batteries of different brands, specifications and batches, otherwise it will cause system failure.

6.Communication Connection

Step 1: Connect the CAN communication line

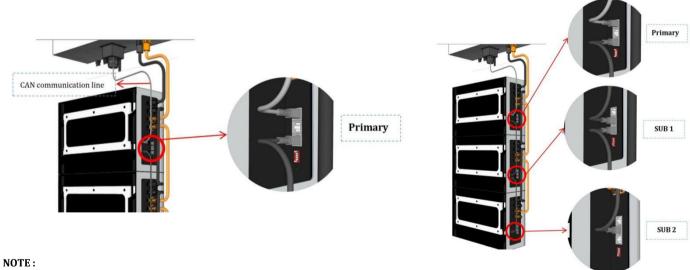
Use the CAN communication cable to connect the inverter to the battery's CAN port.

Step 2: Connecting the RS485 communication line between two batteries

Use the RS485 communication line to connect the batteries in sequence through the RS485 port.

Step 3: Connecting the RS485 communication line more than two batteries

Use the RS485 communication line to connect the adjacent batteries in sequence through the RS485 port.



The connection between the inverter and the battery must be connected to the CAN communication port of the battery, otherwise communication cannot be performed; similarly, the connection between the batteries must be connected to the RS485 port.

7. Equipment Debugging

Step 1 : Primary dial setting: The battery factory defaults to primary mode and does not need to be changed (1:0N,6:0N, 2-5:0FF)

Step 2: Sub dial setting: Dial address is 2-8, #5 need to be dialed off.

Definition of dial code: The dial code adopts BCD code format, and Address 1 is defined

12345

others adopt secondary system as shown in the table on the right.

Note: The battery directly connected to the inverter is the primary and the rest are Subs.

Primary protocol address(5:0FF,6:0N)supports the Hanchu ESS/Lux power protocol, and address (5:0N, 6:0N) supports Deye/Pylon protocols.

The battery address setting in the same system cannot be repeated.

Step 3: Equipment power on

Confirm again that the cables are connected in the correct order and the connection is firm before starting the test.

- 1) First close the circuit breaker switch on the inverter.
- 2) Then press the power switch power on the battery pack in turn to turn on.
- 3) Observe whether the status of the indicator light on the battery panel is normal('RUN' green light flash, 'ALM' light off)

Note: The shutdown procedure is opposite to the startup process, first shut down the battery pack; then disconnect the circuit breaker of the inverter.

When the system starts, ensure the boot sequence of each equipment, otherwise it may cause pre-charging and trigger the circuit breaker protection fault.

Step 4: Inverter protocol selection:

- $1) \ \ On the inverter, the battery manufacturer chooses the \ Hanchu\ ESS\ protocol, or chooses the inverter's own protocol.$
- $2) \ \ On the battery, the inverter manufacturer chooses the matching inverter protocol.$
- 3) Then you should see the normal status information of the battery pack such as voltage, SOC, etc. from the inverter.

No.	Address Settings	DIP ON	DIP OFF	UNIT
1	1 2 3 4 5 6	1, 6	2、3、4、5	Primary
2	1 2 3 4 5 6	2	1、3、4、5、6	SUB
3	1 2 3 4 5 6	1, 2	3、4、5、6	SUB
4	1 2 3 4 5 6	3	1, 2, 4, 5, 6	SUB
5	1 2 3 4 5 6	1、3	2、4、5、6	SUB
6	1 2 3 4 5 6	2. 3	1、4、5、6	SUB
7	1 2 3 4 5 6	1, 2, 3	4、5、6	SUB
8	1 2 3 4 5 6	4	1, 2, 3, 5, 6	SUB

Contact

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