

Screen Notes

1. Main

The main interface displays the function options, including battery pack information, cell voltage, temperature, BMS alarm status, charge and discharge curve chart, setting and system information.



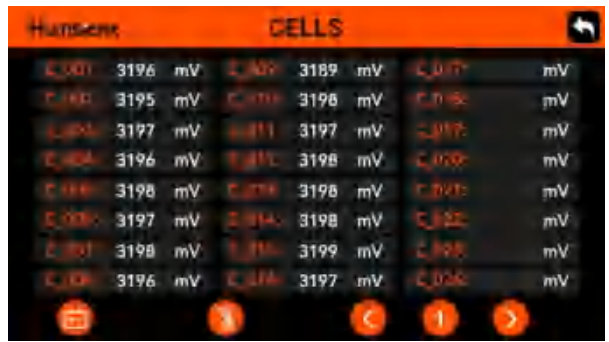
2. Pack

View the current system voltage, current, SOC, maximum and minimum cell voltage, temperature, balance switch and status, charge and discharge MOS status of the battery pack.



3. Cells

Check the voltage and temperature of the battery cell.



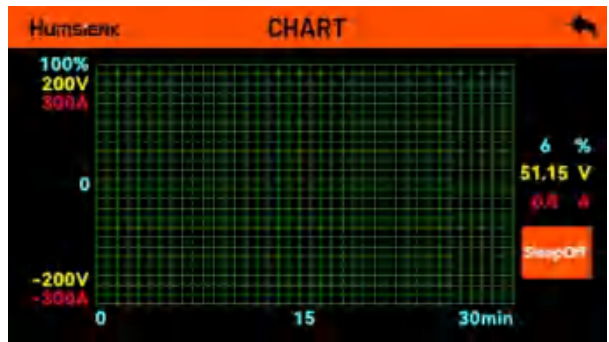
4. Alarm

Battery alarm, fault and abnormal information display to help engineers quickly analyze faults.



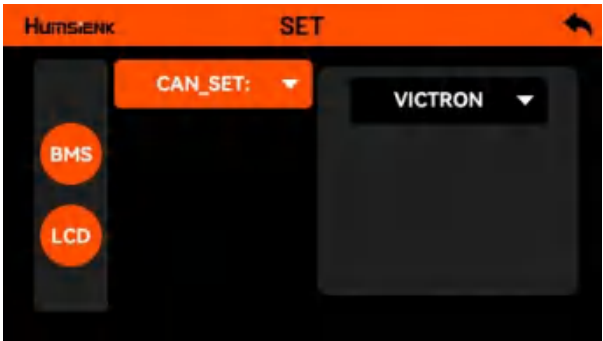
5. Chart

Display the voltage, current and SOC curve of the battery pack during operation.



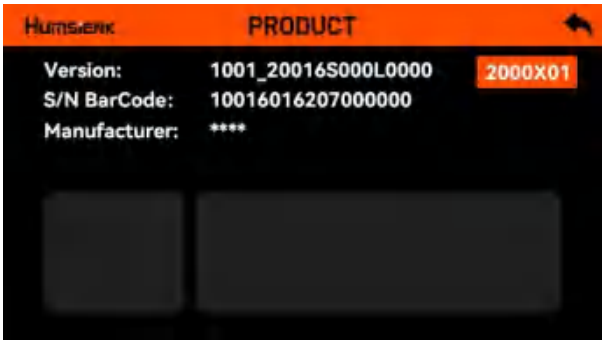
6. Set

Set the communication protocol between battery pack and inverter and display language.



7. Product Information

Display the internal model and software version of the battery pack.



Packing List

Attention

Check the following before signing off the product:

1. Check whether the outer packaging is broken, deformed, soaked in water and other factors that may cause battery damage. Do not open the package and deal with the dealer.
2. Check whether the model and quantity of equipment are consistent with the order. If not, please contact the distributor for treatment.
3. Check whether the accessories in the package are consistent with the packing list. If not, contact the distributor for treatment.



No.	Name	Quantity
1	Battery Module	1
2	Wall-Mounted Fixed Plate	1
3	Support Bracket	1
4	Wall Hook	2
5	Positive and Negative Pole Power Lines(4AWG-1.5m)	2
6	Communication Line(RJ45-1.5m)	1
7	User Manual	1
8	M10*100mm Pull-Out Bolt	2
	M6*12mm Combination Screw	4
	M4*8mm Screws	4



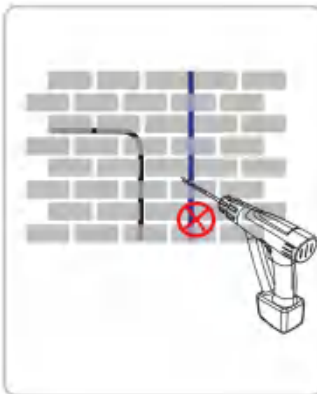
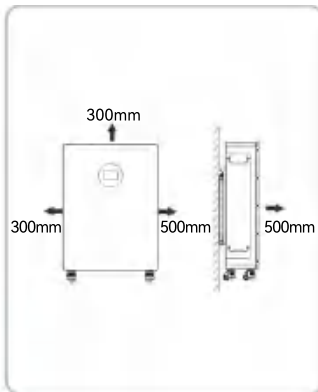
No.	Name	Quantity
1	Battery Module	1
2	Wall-Mounted Fixed Plate	1
3	Wall Hook	2
4	Positive and Negative Pole Power Lines(2AWG-1.5m)	2
5	Communication Line(RJ45-1.5m)	1
6	User Manual	1
7	M10*100mm Pull-Out Bolt	4
	M6*12mm Combination Screw	6
	M4*8mm Screws	2

Installation

Installation Environment Requirements

⚠ Caution

1. The equipment can not be installed in the environment of inflammable, explosive and corrosive.
2. The installation position can be installed indoors or outdoors, but the ambient temperature and humidity must be within the working temperature and humidity range of the equipment.
3. The installation space of the equipment should be easy to operate and maintain, ensuring that the display screen, interface and wiring harness are easy to install and maintain.
4. Installation position should avoid direct sunlight, rain, water, snow, high temperature and other harsh conditions.
5. Corresponding fire control facilities shall be configured in the installation environment.



■ Installation Carrier Requirements

Caution

1. The installation carrier shall not be made of flammable material.
2. Ensure that the mounting carrier is stable and reliable to bear the weight of the equipment.
3. Be careful to avoid water and electricity pipelines in the wall.
4. When installing the battery pack, ensure that the battery is in a horizontal and vertical state to avoid falling.

■ Installation Preparation



Cutting tool



Tape measure



Socket toolbox



Screwdriver



Electric hammer



Electric drill



Marker pen



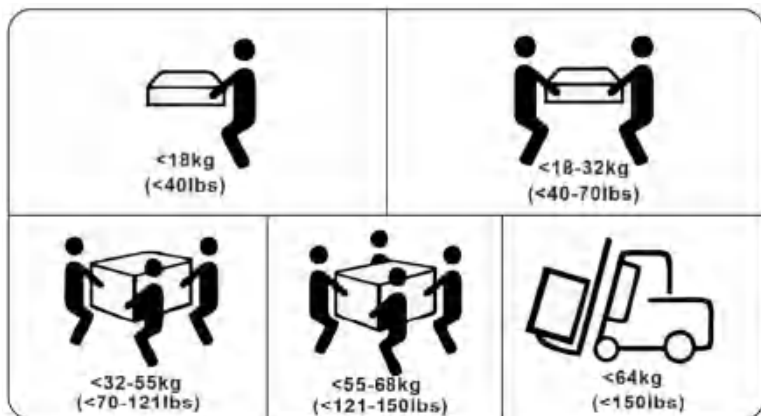
Wrench



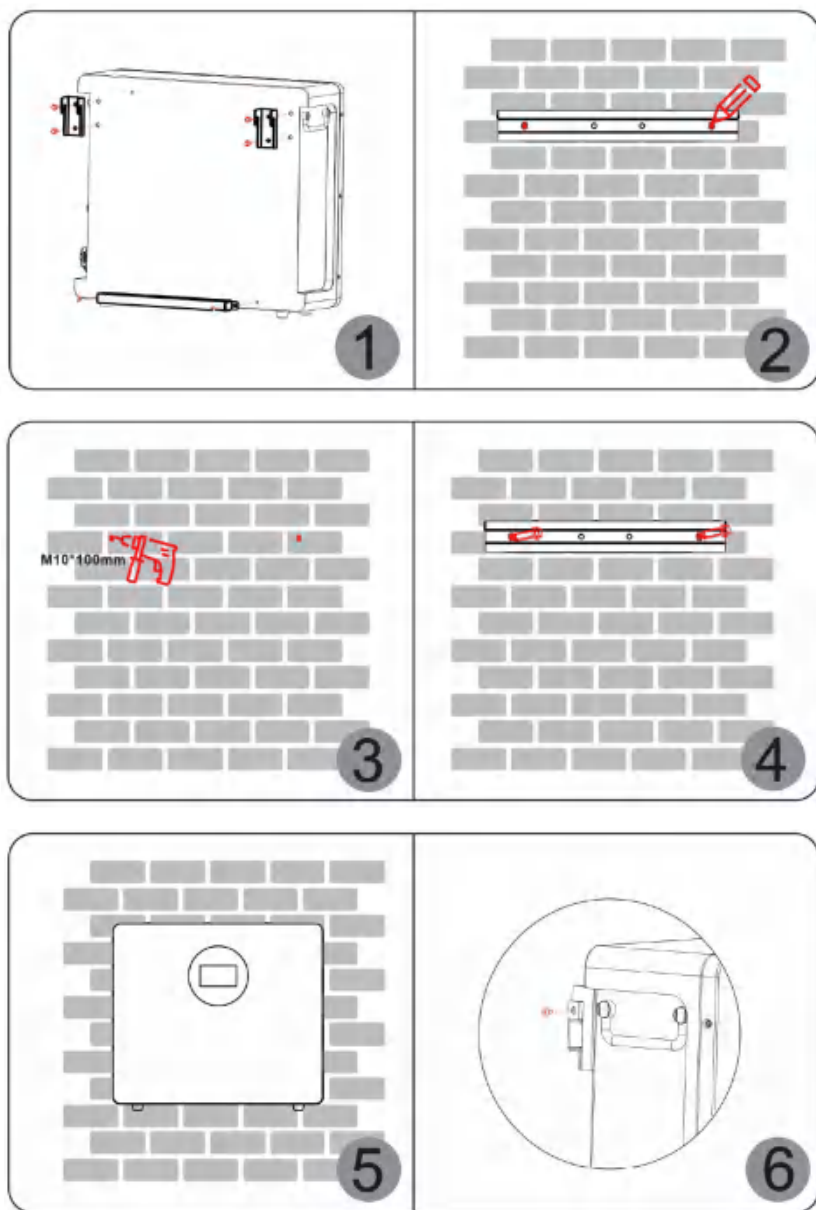
Protective equipment

■ Battery Installation

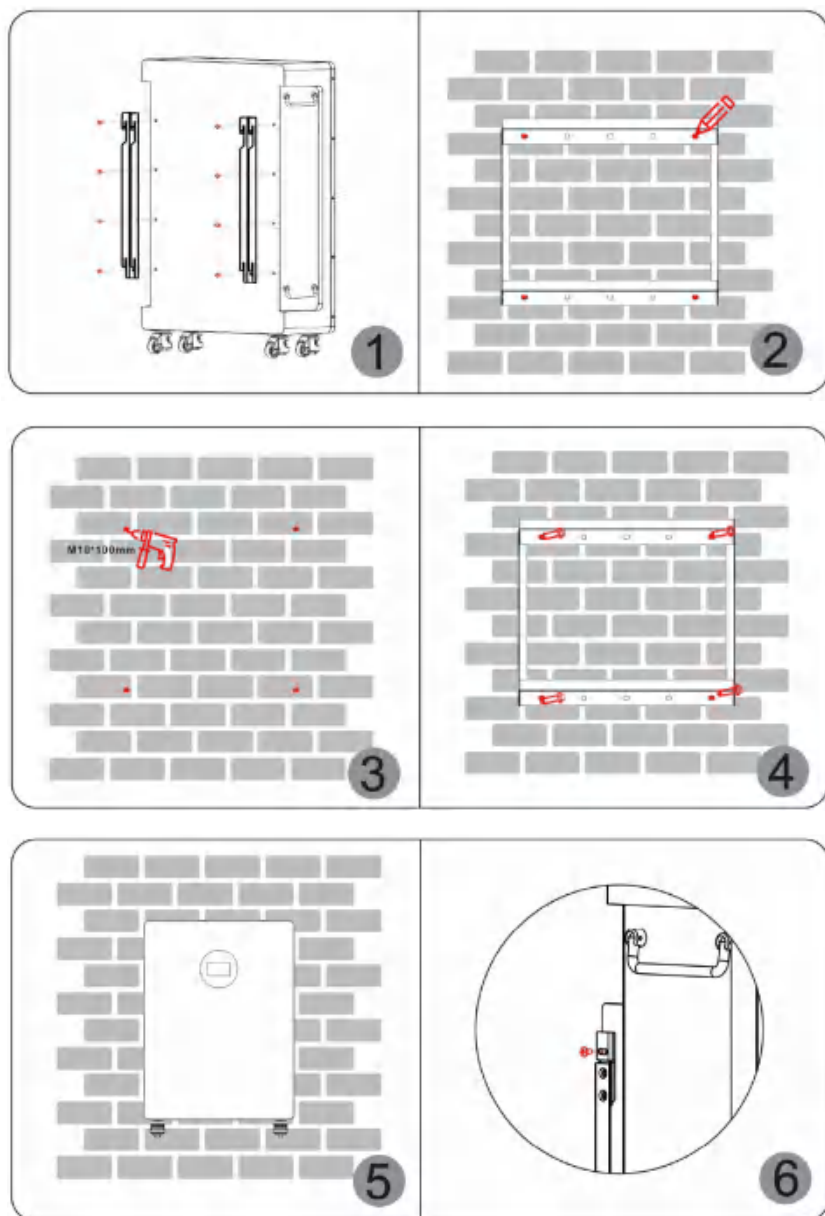
The number of handling personnel or equipment should be selected according to the weight of the product, and the battery pack should be moved to the required installation position. Do not violently unpack the package.



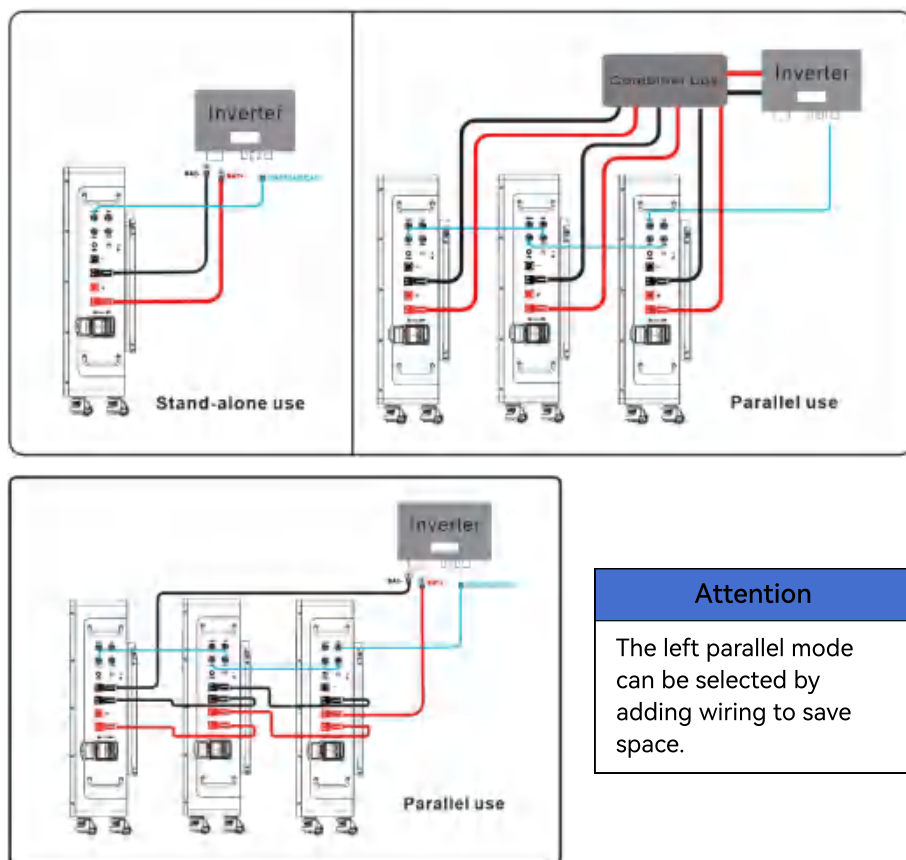
- Step 1:** Find the corresponding accessories in the package and install them on the back of the battery case.
- Step 2:** Locate the wall panel in the package and mark the hole location with a marker at the pre-installed position.
- Step 3:** Use the electric hammer to drill a hole of M10*100mm at the marked position.
- Step 4:** Use the pull-out bolt to fix the wall panel to the carrier.
- Step 5:** Hang the battery pack into the clip of the wall panel. Try to unload the force to ensure that it is stable and then release your hand.
- Step 6:** Secure the battery pack to the wall panel from the side with screws to prevent it from falling off.

48V 100Ah Smart Home Storage

48V 314Ah Smart Home Storage



System Connection



Attention

The left parallel mode can be selected by adding wiring to save space.

System Operation

Check Before Power On

Before powering on the system, please check the following:

- 1. Check that the wiring connections between all parts of the system are correct and secure.
- 2. Check whether the wiring harness is damaged or exposed.
- 3. Check that all component switches are closed.
- 4. Check the installation stability and keep the environment clean and free of foreign matter.

System Power-On

- Step 1:** Close the circuit breaker between the battery pack and the inverter (if a circuit breaker is installed).
- Step 2:** Close the circuit breaker on the battery pack.
- Step 3:** Press the switch on the battery pack.
- Step 4:** Turn on the inverter switch (set the battery mode according to the inverter user manual).

Attention
1. Please follow the above steps. Incorrect operation may cause the battery pack to fail to work properly. 2. Please refer to Chapter 3 Product Information Settings Communication Protocol. 3. If the inverter cannot be started after being turned on and the battery pack shows hardware overcurrent protection, it is because of excessive capacitive load. Please start the inverter again by following the above steps or start the battery pack through other power supply.

Maintenance



Danger

1. When maintaining the system, please turn off the equipment. There may be a risk of electric shock when operating with power on.
2. When shutting down the system, make sure that external load devices are turned off to avoid damage to external devices caused by power failure.
3. If the wire inside the cable is exposed, do not touch it.
4. In case of other emergencies, contact after-sales personnel or relevant personnel to deal with it immediately after ensuring your own safety.

■ Routine Maintenance (Once a Month)

Visual Inspection:

- Observe whether the equipment shell is obviously deformed or rusted.
- Check the stability of installation.
- Check whether there is water leakage, water accumulation and debris stacking in the environment.
- Visually observe whether the wiring harness is firmly connected, aging, damage, or animal bite marks.

Cleaning:

- Use a dry cloth to wipe the surface dust.

System Status Monitoring:

- Observe whether the charge and discharge state of the battery is normal.
- Observe the alarm record of the system. If it occurs frequently, please contact the after-sales service for treatment.
- Check whether there is a large fluctuation in historical power generation and electricity consumption.

Usage Habits:

- Avoid deep discharge. When the SOC is 15%-20%, stop discharging to prolong battery life.
- Avoid leaving the battery out of power for a long time, which may cause the battery to fail to start up.
- Read the user manual to avoid mistakes in daily use.

■ Professional Maintenance (Once Every Six Months)

- Use professional tools to check the stability of wiring harness connections between devices.
- Perform a complete charge and discharge to calibrate the battery SOC and evaluate the SOH.
- Use thermal imaging equipment to detect whether there is any abnormality in the hot spots of all system components.
- Check that the installation parts are secure and not loose.

■ Transportation and Storage

■ Transportation

If the battery pack needs to be transported, please follow the following requirements for transportation:

- Ensure that the battery pack is in a shutdown state and disconnect all harnesses.
- Try to keep the battery charge at about 60%.
- Use the original packaging as much as possible to ensure proper protection of the battery.
- Try to avoid shaking, high temperature and impact during transportation.
- When transporting large quantities, entrust a logistics company with professional qualifications to transport.

■ Storage

If the battery pack needs to be stored for a long time, please store it according to the following requirements:

- Store in a dry, cool environment at an ideal temperature of 10~25°C/50~77°F. Extreme environments will accelerate battery aging and irreversible capacity decay.
- Keep away from direct sunlight, flammable materials, heat sources, corrosive liquids or gases.
- Ensure that batteries are stacked neatly without risk of dumping.
- The battery pack should be kept at about 60% during storage.
- Check the battery charge every three months. If the battery charge is lower than the storage requirement, please charge the battery pack before storage.
- Check the storage environment for moisture, insect damage, etc.



Thank You

Dear Valued Customer,

Thank you for choosing Humsienk batteries. We sincerely appreciate your trust and support, which motivates us to continuously pursue excellence and provide you with higher-quality batteries.

At Humsienk, we are committed to advancing battery technology and making it accessible to everyone by offering reliable products at affordable prices.

We take pride in delivering products that not only meet your expectations but also reflect our mission to make cutting-edge lithium battery technology accessible to all.

We hope our batteries bring you great satisfaction and value. If you have any questions or need assistance, please feel free to contact us. Your feedback and trust drive our dedication to technological innovation and exceptional service.

Thank you once again for choosing Humsienk. We look forward to our products bringing you a more brilliant life.

Best regards,
Humsienk

A decorative gold ribbon is tied around the bottom of the white card, extending outwards and downwards, adding a touch of elegance to the presentation.