



ML2.56K-HVR-07

user manual

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1.Important information in the manual

1.1 Scope

The installation and operation manual applies to the modular battery energy storage system. Please carefully read this installation and operation manual to ensure the safe installation, preliminary debugging, and maintenance of battery . Installation, preliminary debugging, and maintenance must be carried out by qualified and authorized personnel. Please keep this installation and operation manual and other applicable documents near the battery energy storage system, so that all personnel involved in installation or maintenance can access this installation and operation manual at any time.

This installation and operation manual only applies to countries meeting the certification requirements. Please observe the applicable local laws, regulations, and standards. Standards and legal provisions of other countries may be inconsistent with the provisions and specifications in this manual. In this case, please contact our after-sales service personnel.

1.2 Description

Model	System energy (kWh)	Rated DC power(kW)	Discharge depth
7.68K-50	7.68	7.68	90%
10.24K-50	10.24	10.24	90%
12.8K-50	12.8	12.8	90%
15.36K-50	15.36	15.36	90%
17.92K-50	17.92	17.92	90%
20.48K-50	20.48	20.48	90%
23.04K-50	23.04	23.04	90%
25.6K-50	25.6	25.6	90%
28.16K-50	28.16	28.16	90%
30.72K-50	30.72	30.72	90%
33.28K-50	33.28	33.28	90%
35.84K-50	35.84	35.84	90%
38.4K-50	38.4	38.4	90%

1.3 Meaning of Symbols

This manual contains the following types of warnings:



Danger! It may cause an electric shock.

Even when the equipment is disconnected from the power grid, the voltage-free state will have a time lag.



Danger! If the instructions are not observed, death or severe injury may

occur.



Warning! If the instructions are not observed, a loss may occur.



Attention! This symbol represents information on the device use.

Symbols on equipment:

The following types of warning, prohibition, and mandatory symbols are also used on the equipment.



Attention! The risk of chemical burns

If the battery is damaged or fails, it may lead to electrolyte leakage, which in turn causes the formation of a small amount of hydrofluoric acid, among other effects. Contact with these liquids can cause chemical burns.

- Do not subject the battery module to severe impact.
- Do not open, disassemble or mechanically change the battery module.
- In case of contact with an electrolyte, wash the affected area with clean water immediately and seek medical advice promptly.



Attention! The risk of explosion

Incorrect operation or fire may cause the lithium-ion battery unit to ignite or explode, leading to serious injury.

- Do not install or operate the battery module in explosive or high-humidity areas.
- Store the battery module in a dry place within the temperature range specified in the data sheet.
- Do not open, drill through or drop the battery cell or module.
- Do not expose the battery cell or module to high temperatures.
- Do not throw the battery cell or module into the fire.
- If there is a fire from the battery, please use the CO2 extinguisher. If there is a fire near the battery, please use a dry powder extinguisher.
- Do not use defective or damaged battery modules.



Caution! Hot surface

- If a malfunction occurs, the parts will become very hot, and touching them may cause serious injury.
- If the energy storage system is defective, please shut it down immediately.
- If the fault or defect becomes obvious, special care should be taken when handling the equipment.



No open fire! It is prohibited to handle open flames and ignition sources near the energy storage system.



Do not insert any objects into the opening in the housing of the energy storage system! No objects, such as screwdrivers, may be inserted through openings in the casing of the storage system.



Wear safety goggles! Wear safety goggles when working on the equipment.



Follow the manual! When working and operating the equipment, the

installation and operation manual provisions must be observed.

1.4 General Safety Information



Danger! Failure to comply with the safety information can lead to life-threatening situations.

1. Improper use can cause death. Operators of battery must read this manual and observe all safety information.
2. Operators of ML2.56K-HVR-07 must comply with the specifications in this manual.
3. This manual cannot describe all conceivable situations. For this reason, applicable standards and relevant occupational health and safety regulations are always given priority.
4. In addition, the installation may involve residual hazards in the following circumstances:
 - Incorrect installation.
 - The installation is carried out by personnel who did not receive relevant training or guidance.
 - Failure to observe the warnings and safety information in this manual.

1.5 Disclaimer

- Failure to comply with the provisions of this manual.
- Incorrect use of this product.
- Unauthorized or unqualified personnel repair the product, disassembly the rack and perform other operations.
- Use of unapproved spare parts.
- Unauthorized modifications or technical changes to the product.

1.6 Installation environment

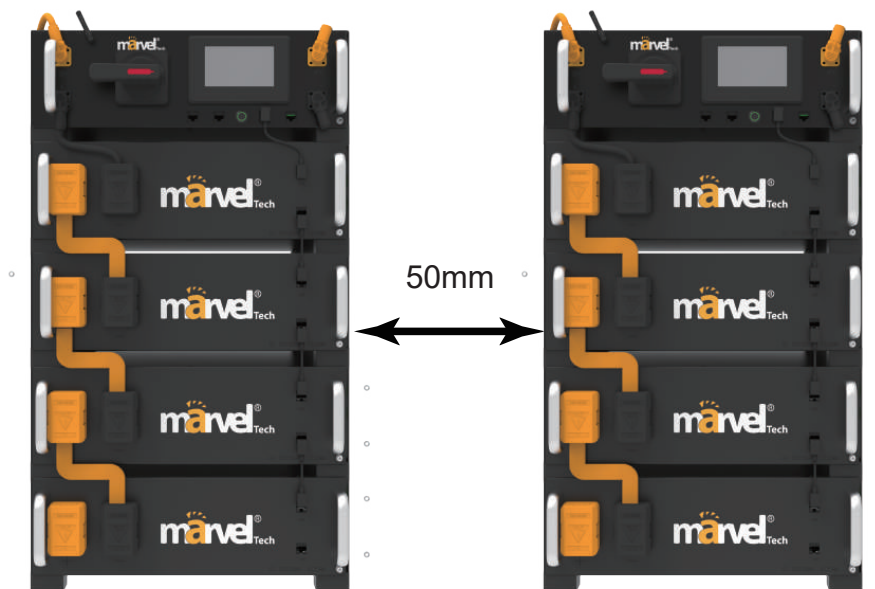
- The battery energy storage system can only be installed and operated in an enclosed space. The working environment temperature range of battery is $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$, and the maximum humidity is 85%. The battery module shall not be exposed to the sun or placed directly beside the heat source.
- The battery module shall not be exposed to a corrosive environment.
- When installing the battery energy storage system, ensure that it stands on a sufficiently dry and flat surface with sufficient bearing capacity. Without the manufacturer's written approval,

the installation site's altitude shall not be higher than 2,000 meters. The output power of the battery decreases with the altitude.

- In areas where flooding may occur, care must be taken to ensure that the battery module is installed at a suitable height and to prevent its contact with water.
- The battery energy storage system must be installed in a fireproof room. This room must have no fire source and must be equipped with an independent fire alarm device, which complies with local applicable regulations and standards. According to local applicable regulations and standards, the room must be separated by the T60 fire door. Similar fire-proof requirements apply to other openings in the room (such as windows).

Minimum product installation distance

The minimum distance to the surrounding building when the battery is installed is 10mm, and the minimum distance between the two products is 50mm.



Compliance with the specifications in this manual is also part of proper use.

The use of the system is prohibited in the following circumstances:

- Mobile use on land or in the air (use on water only with the manufacturer's consent and with the manufacturer's written consent).
- Used in medical devices.
- Used as a UPS system.

1.7 Requirements for Installation Personnel

All work shall comply with local applicable regulations and standards.

The installation can only be completed by electricians with the following qualifications:

- Trained in dealing with hazards and risks associated with the installation and operation of electrical equipment, systems, and batteries.
- Trained on installation and debugging of electrical equipment.
- Understanding and complying with the technical connection conditions, standards, guidelines, regulations, and laws applicable.
- Knowledge of handling lithium-ion batteries (transportation, storage, disposal, hazard source).
- Understanding and complying with this document and other applicable documents.

2. Safety

2.1 Safety rules

To avoid property damage and personal injury, the following rules shall be followed when working on the hazardous live parts of the battery energy storage system:

- It is available for use.
- Ensure that it will not restart.
- Make sure there is no voltage.
- Grounding protection and short circuit protection
- Cover or shield adjacent live parts.

2.2 Safety information

Part damage or short circuit may cause electric shock and death. A short circuit can be caused by connecting battery terminals, resulting in current flow. This type of short circuit shall be avoided under any circumstances. For this reason, follow these instructions:

- Use insulated tools and gloves.
- Do not put any tools or metal parts on the battery module or high-voltage BMS box.
- When operating the battery, be sure to remove watches, rings, and other metal objects.
- Do not install or operate this system in explosive or high-humidity areas.
- When working on the energy storage system, first turn off the charging controller, then the battery, and ensure that they are not turned on again.

Improper use of the battery energy storage system can lead to death. The use of the battery energy storage system beyond its intended use is not allowed, because it may cause great danger.

Improper handling of the battery energy storage system can cause life-threatening risks, serious injury or even death.



Warning! Improper use can cause damage to the battery cell.

- Do not expose the battery module to rain or soak it in liquid.
- Do not expose the battery module to a corrosive environment (such as ammonia and salt).
- The battery energy storage system shall be debugged no later than six months after delivery.

3. Transport to the end customers

3.1 Provisions on Shipping of Battery Modules:

It is necessary to comply with the relevant regulations and provisions on roads for shipping lithium-ion products in the corresponding countries.



It is prohibited to smoke in the vehicle during transportation or in the vicinity during loading and unloading.



The dangerous goods transport vehicles shall meet relevant regulations concerning road transportation and shall be equipped with two tested CO2 fire extinguishers.



It is forbidden for the freight forwarder to open the outer package of the battery module. Use only approved lifting equipment to move the battery cabinet system. Use only the hanging lug on the top of the battery cabinet as the connection point. When lifting, the angle of the sling must be at least 60°.



Improper vehicle transportation can cause injury. Improper transportation or improper transportation locks may cause the load to slip or overturn, resulting in injury. The cabinet shall be placed vertically to prevent it from sliding in the vehicle, and a fixing belt shall be used.



A tilting of the battery rack may cause injury. The maximum weight of a single battery rack can reach 640 kg. When tilted, they may overturn, causing injury and damage.

Ensure that the battery cabinet is on a stable surface and that it does not tilt due to load or force.

 The battery energy storage system can be damaged, if not properly transported. The battery module can only be transported vertically. Note that these parts may be top-heavy. Failure to follow this instruction may result in damage to the part.

 During transportation, the battery storage rack may be damaged when it is installed with the battery module. The battery storage rack is not designed to be transported with the installed battery modules. Always transport the battery module and the battery rack separately. Once the battery module is installed, do not move the battery rack, and do not lift it by a lifting device.

 If possible, do not remove the transport packaging before arrival at the installation site. Before removing the transport protector, check if the transport packaging is damaged, and check the impact indicator on the outer packaging of the battery converter. If the impact indicator is triggered, the possibility of transport damage cannot be ruled out.

 Improper transportation of battery modules may cause injury. The single battery module weighs 44 kg. If it falls or slips, it may cause injury. Only use suitable transport and lifting equipment to ensure safe transport.

 Wear safety shoes to avoid the danger of injury. When transporting the battery rack and battery module, their parts may be crushed due to their heavy weight. Therefore, all persons involved in transportation must wear safety shoes with toe caps. Please observe the safety regulations for transportation at the end customer's site, especially during loading and unloading.

 During transportation and installation of unpacked battery storage cabinets, the risk of injury increases, especially on sharp metal panels. Therefore, all personnel involved in transportation and installation must wear protective gloves.

 The maximum weight of a single rack of can reach 640kg. We suggest that at least 2-3 people work together to install the battery rack. The lifting device is helpful for heavy parts, and the pulley or cart for light parts. Be careful not to damage the case. The number of battery modules stacked shall not be more than 8.

Check whether the delivery is complete.

3.2 Permissible and Impermissible Storage Positions of a Packaged Battery Module

The battery module can only be transported in an upright position. Please note that the battery rack may be very top-heavy.

4. Description and installation of ML2.56K-HVR-07 battery

4.1 Installation Precautions



WARNING! Possible damage to the building due to static overload

1. The total weight of the battery storage system is kgs. Ensure that the installation site has sufficient bearing capacity.
2. When selecting the installation site, consider the transportation route and necessary site cleanup.

4.2 ML2.56K-HVR-07 Product Description

ML2.56K-HVR-07 is a high-voltage lifepo4 battery system. It provides a reliable backup power supply for supermarkets, banks, schools, farms and small factories to smooth the load curve and achieve peak load transfer. It can also improve the stability of renewable systems and promote the application of renewable energy.

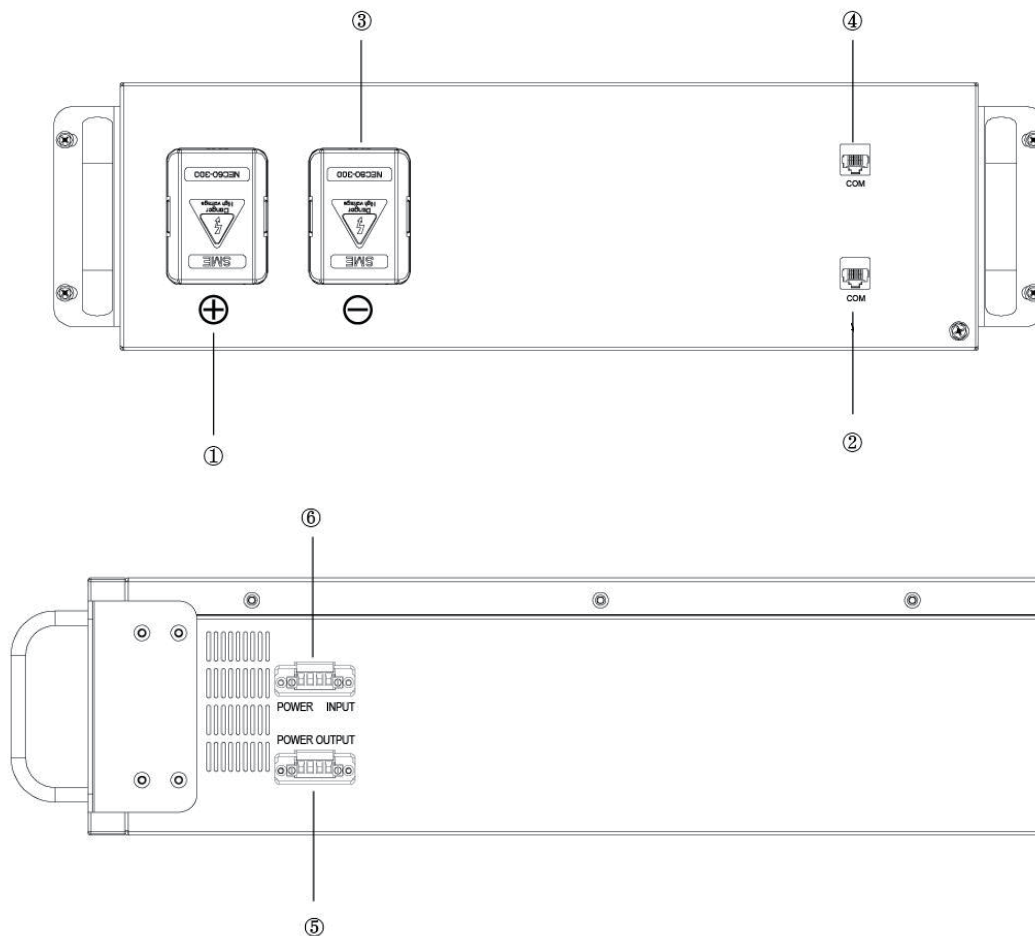
It is characterized by high integration, good reliability, long service life, wide working temperature range, etc. The battery energy storage system is modular. Each battery module has a capacity of 2.56kWh. It can support up to 15 battery modules in series. Its total energy can be expanded from 7.68kWh to 38.4kWh.

4.3 Technical Data

System Model	ML10K-HVR-07
Installation Mode	Racked
Battery Type	LifePO4(LFP)
Battery Module Qty InSeries (Optional)	4
System Nominal Capacity (Ah)	50
System Nominal Voltage (V)	204.8
System Operating Voltage (V)	179.2-227.2
System Nominal Capacity (KWh)	10.24
Usable Capacity (KWh)	9.2
Dimension (mm)	604*554*963

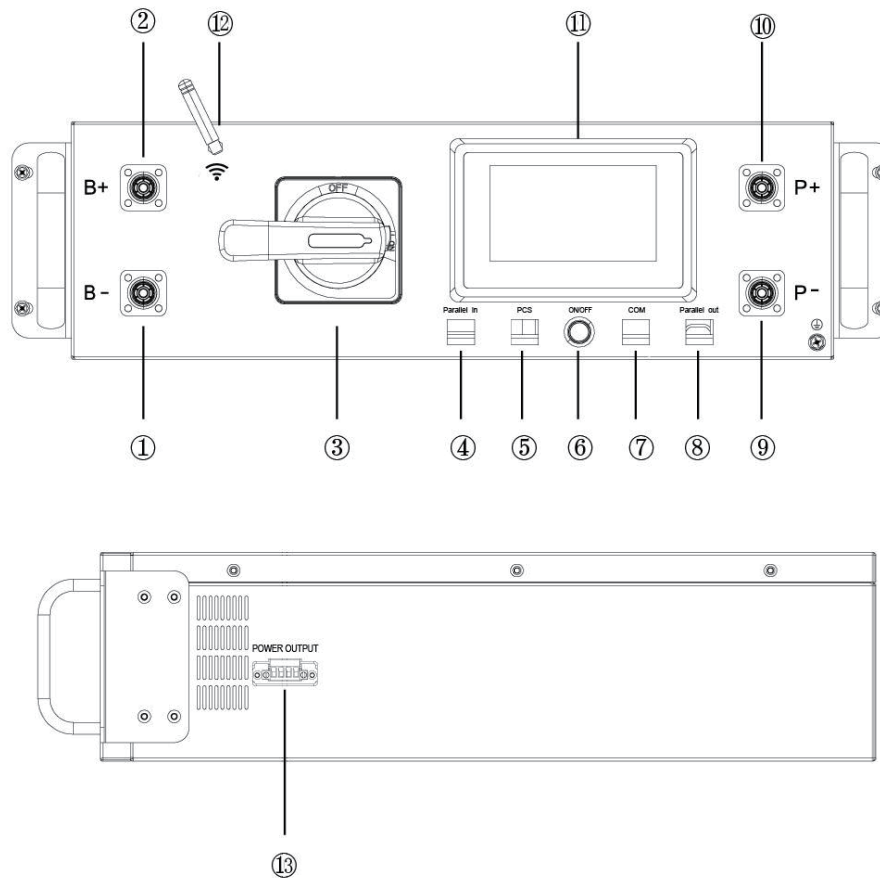
Recommend Charge/Discharge Current (A)	25
Communicaiton	CAN
Ingress Protection	IP20
Altitude	≤2000m
Cycle Life	25±2°C,0.5C/0.5C,EOL70%≥6000
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature
SOC	Intelligent algorithm
Working Temperature	0°C~55°C Charge -20°C ~55°C Discharge
Storage Temperature	0~35°C

4.4 Description of Battery Module



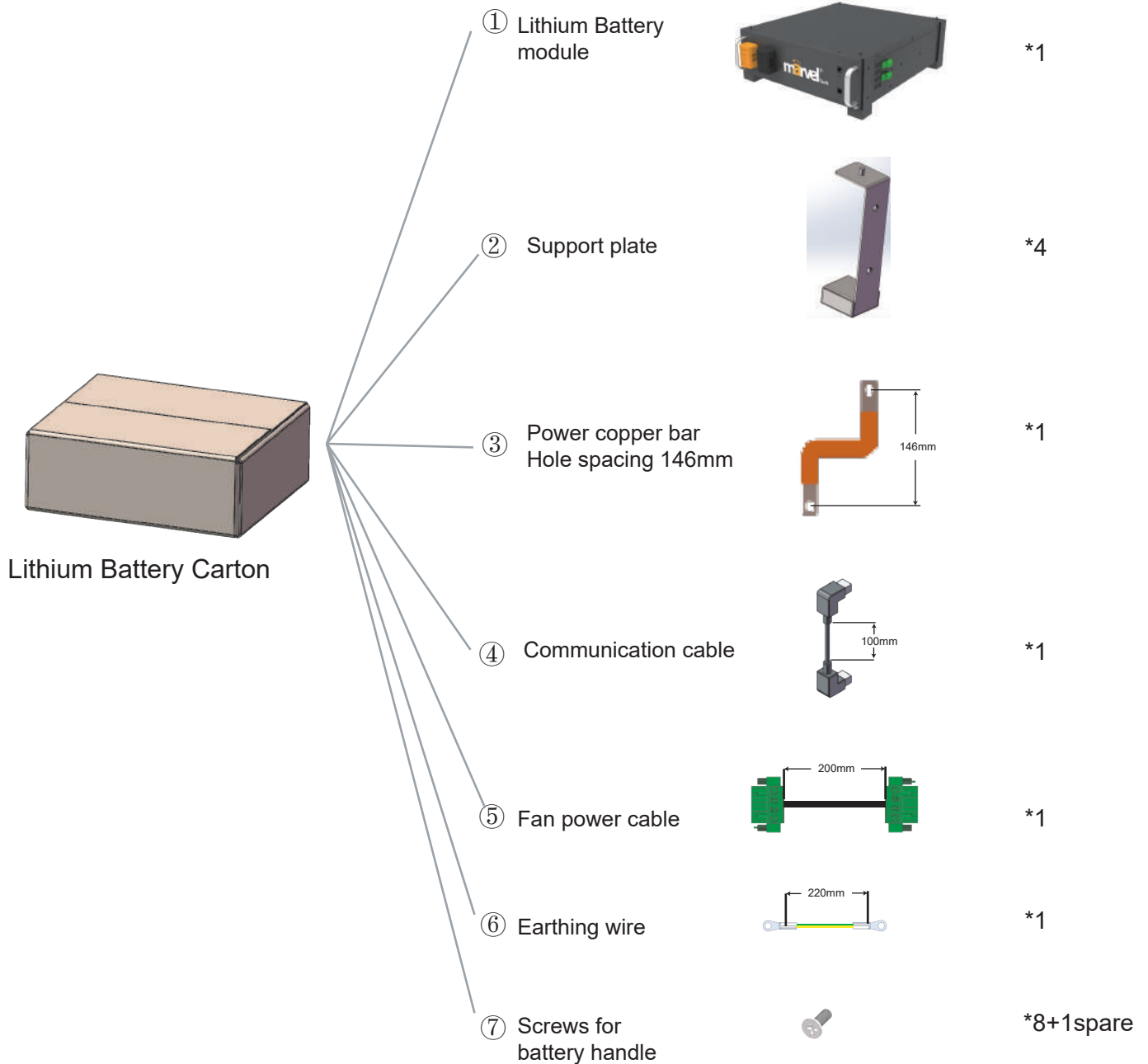
NO.	Name	Description.	Position
①	B-	Battery module negative pole (black).	Front
②	COM	Connection position of battery module communication and power supply output.	Front
③	B+	Battery module positive pole (orange)	Front
④	COM	Connection position of battery module communication supply input.	Front
⑤	POWER OUTPUT	Connect the fan power output line.	side
⑥	POWER INPUT	Connect the fan power input line	side

4.5 Description of high-voltage BMS box

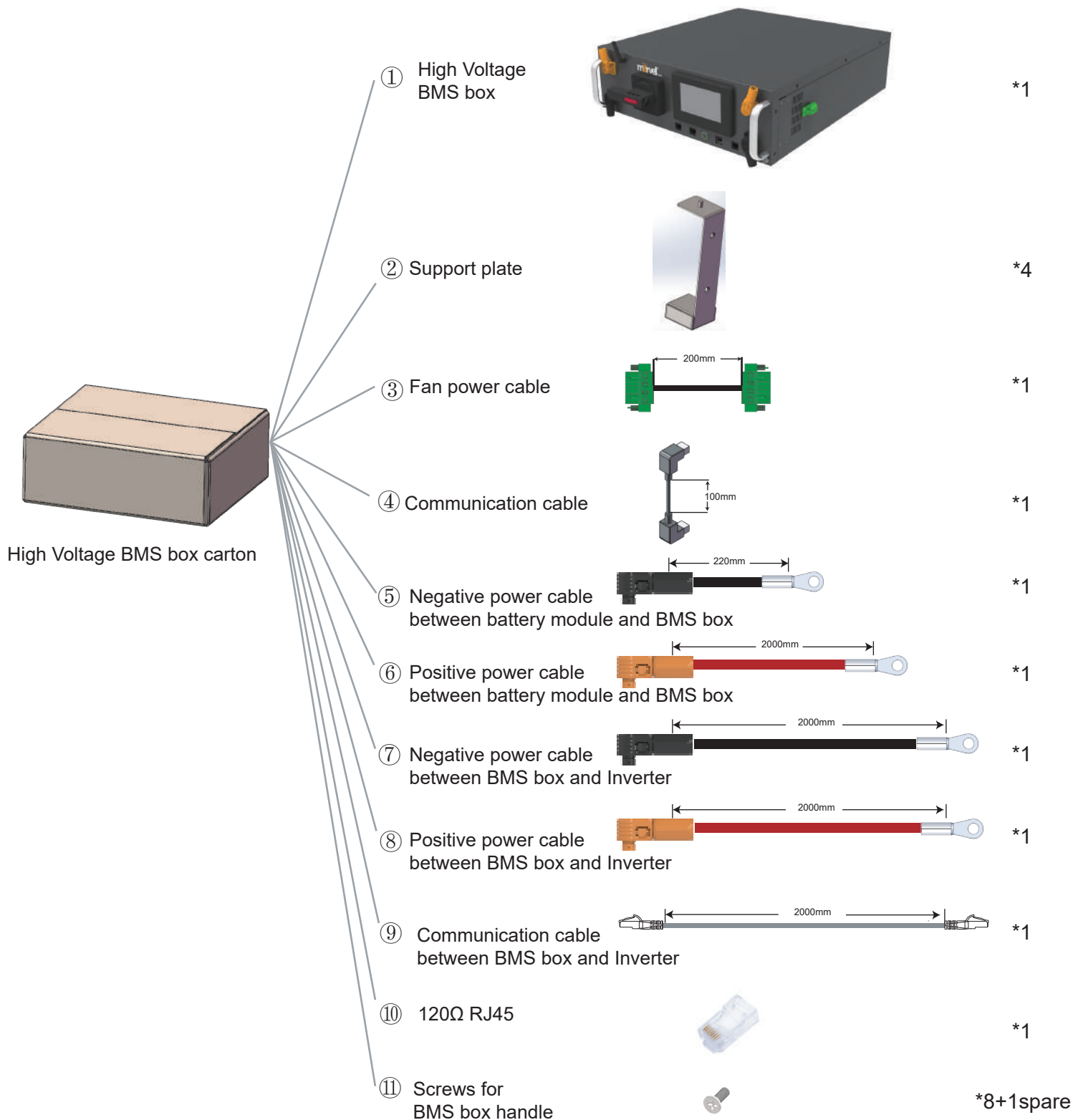


NO.	Name	Description.	Position
①	B-	High voltage BMS box module negative pole (black).	Front
②	B+	High voltage BMS box module positive pole (orange)	Front
③	DC circuit breaker	Used to manually control the connection between the battery rack and external devices.	Front
④	Parallel in	Parallel communication input port	Front
⑤	PCS	Inverter communication port, PIN4:CANH;PIN5:CANL;	Front
⑥	ON/OFF	BMS start button and Green indicator light	Front
⑦	COM	Communication port between battery and High voltage BMS	Front
⑧	Parallel out	Parallel communication output port	Front
⑨	P-	Connect the high-voltage BMS box to the negative pole of the inverter	Front
⑩	P+	Connect the high-voltage BMS box to the positive pole of the inverter	Front
⑪	Human-machine interface (HMI)	Display some important battery information.	Front
⑫	Wifi	High voltage BMS box WiFi signal antenna	Front
⑬	Power output	Connect the fan power output line.	side

List of battery pack accessories



High voltage box accessory list



4.6 Installation of the Battery Module to the Rack



Insufficient or no grounding may cause an electric shock. Device malfunctions, and insufficient or no grounding may cause device damage and life-threatening electric shocks.



Note: Before installing the battery, please turn the manual switch of the high-voltage control box to the off position.



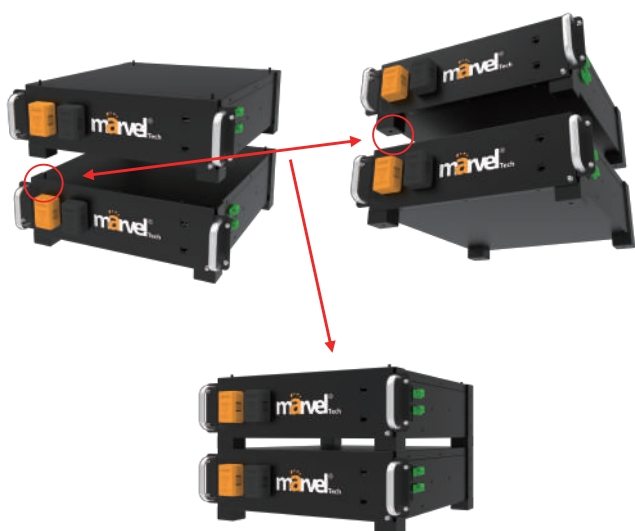
CAUTION

Remember that this battery is heavy! Please be careful when lifting out from the package.



CAUTION

Note the allowable installation modes :



① Install the lug on the battery module and high-voltage BMS box.

② Insert the first battery module into the battery module rack at the bottom cluster rack; then in the order from bottom to the top, continue the installment in the same way till it reaches the twelfth floor. On the thirteenth floor, insert the slide of the cabinet at the top of the rack into the high-voltage BMS box.

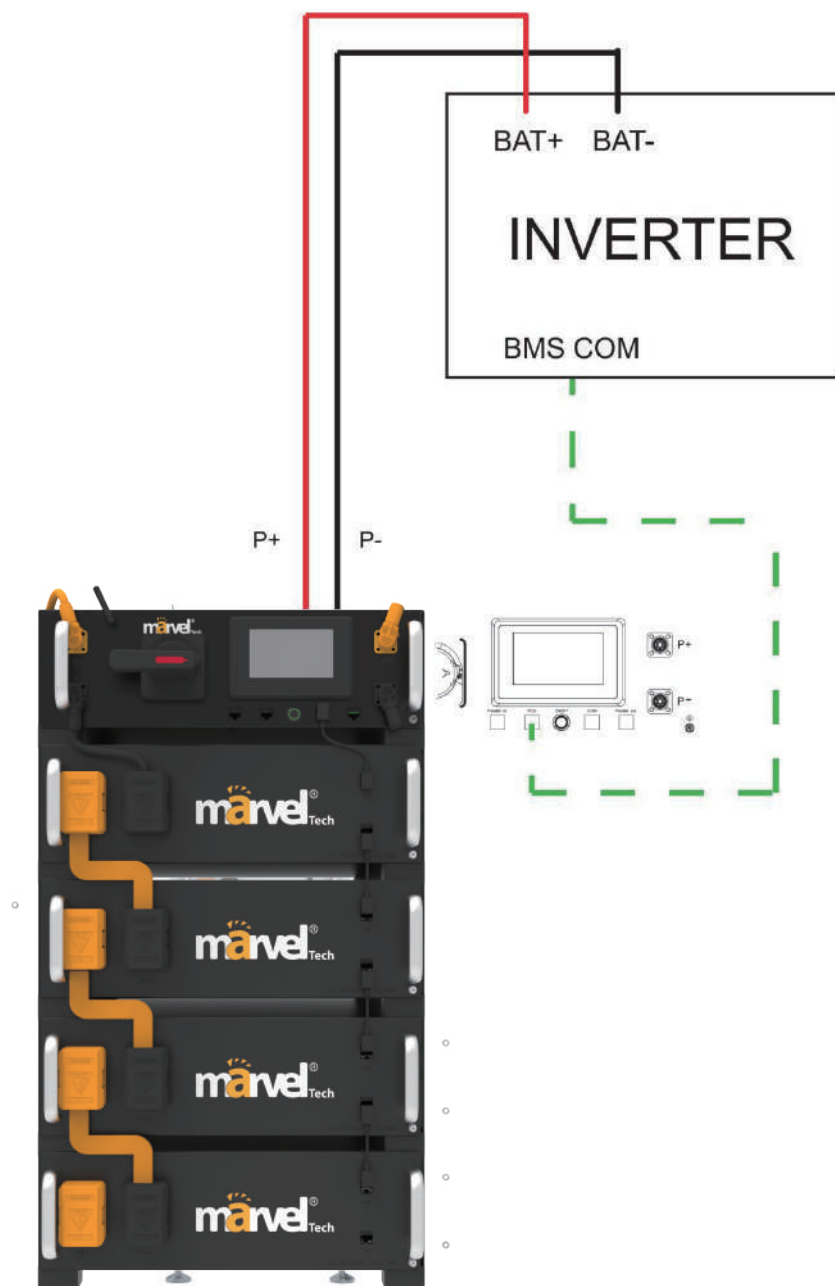
③ After the battery module and control box is inserted into the rack, use M4* 12 outer hexagon cross combination screws to fix all the lugs of the battery module and control box on the side beam in turn.

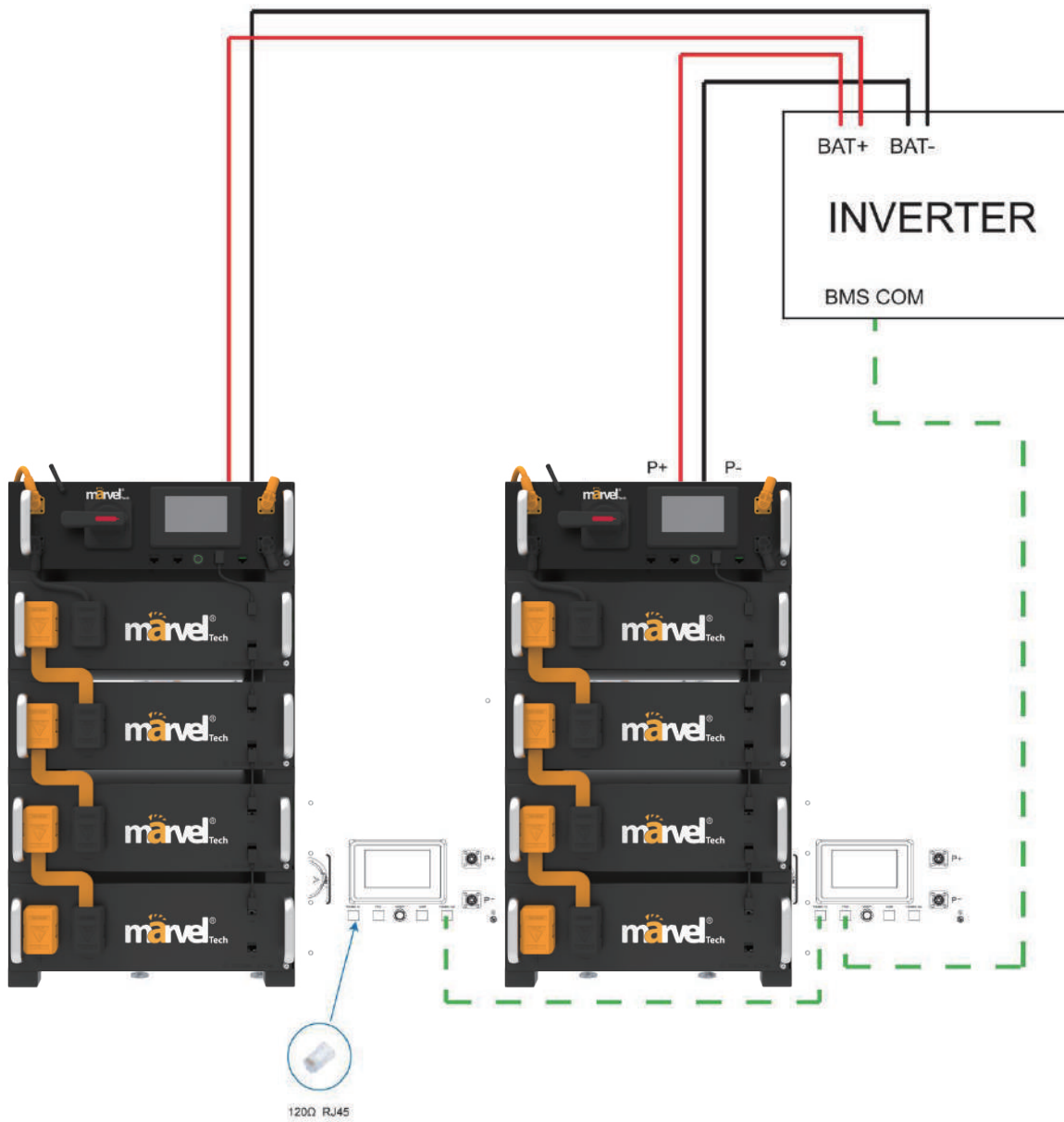
④ Connect bronze, cable, communication harness in turn, and fix.

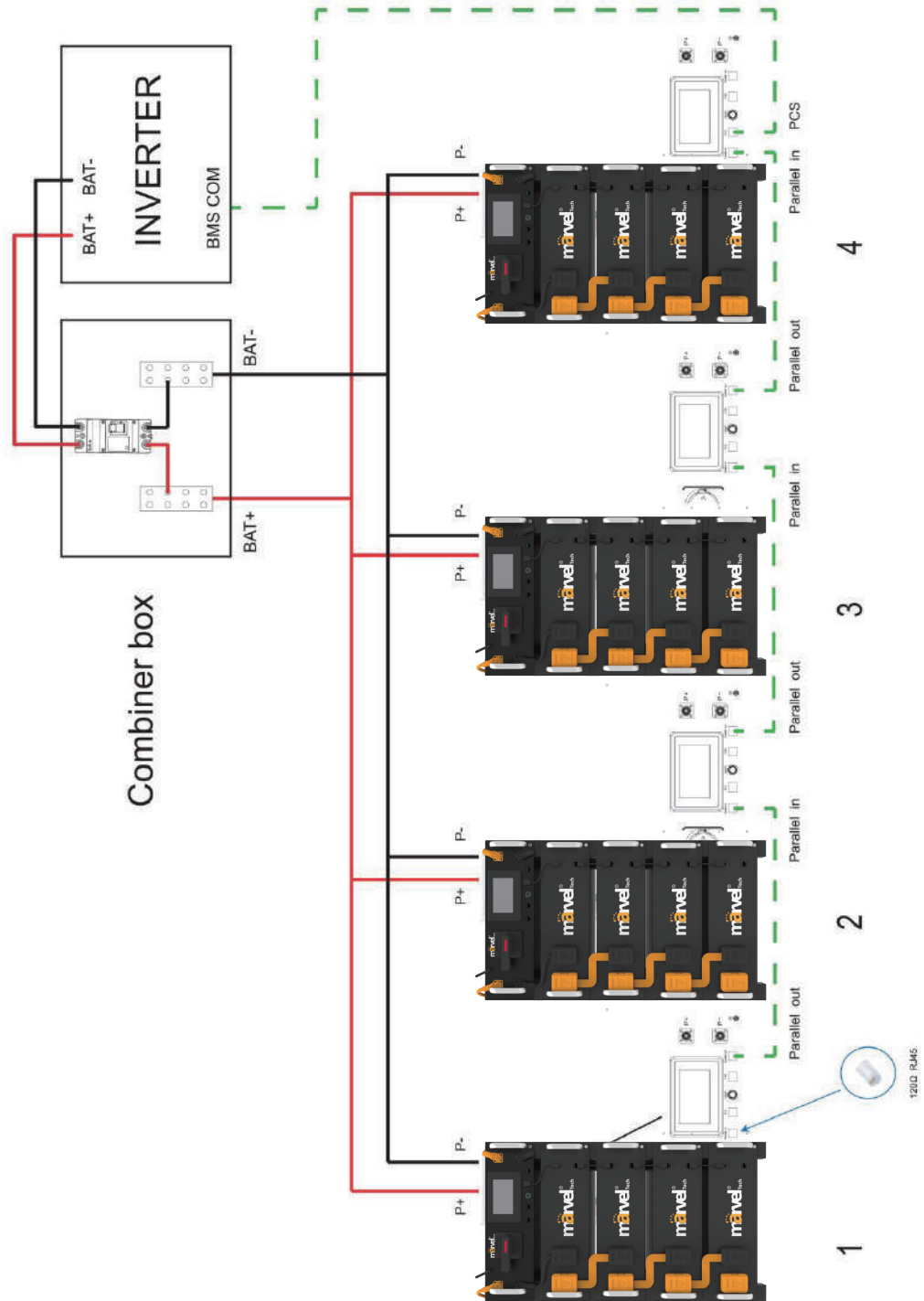
NOTE : Align the protrusions with the holes and snap them together.



4.7 Battery cluster connected to inverter







4.8 System startup and shutdown

Startup procedure

- ① After connecting the battery cables, press the DC circuit breaker on the high-voltage BMS box to turn OFF to ON.
- ② Press the start button and wait for the screen to light up.
- ③ Turn on the circuit breaker after the battery pack is started.
- ④ Complete boot.

Shutdown procedure

- ① Press the start button again and wait for the screen to go off.
- ② Press the DC circuit breaker ON the high pressure control box and set the "ON" to the "OFF" position.
- ③ Turn off the circuit breaker after the battery pack is closed.
- ④ Complete shutdown.

Description of external circuit breakers between inverter and battery system

5 User Interface

5.1 Main Interface



5.2 Cell Voltage



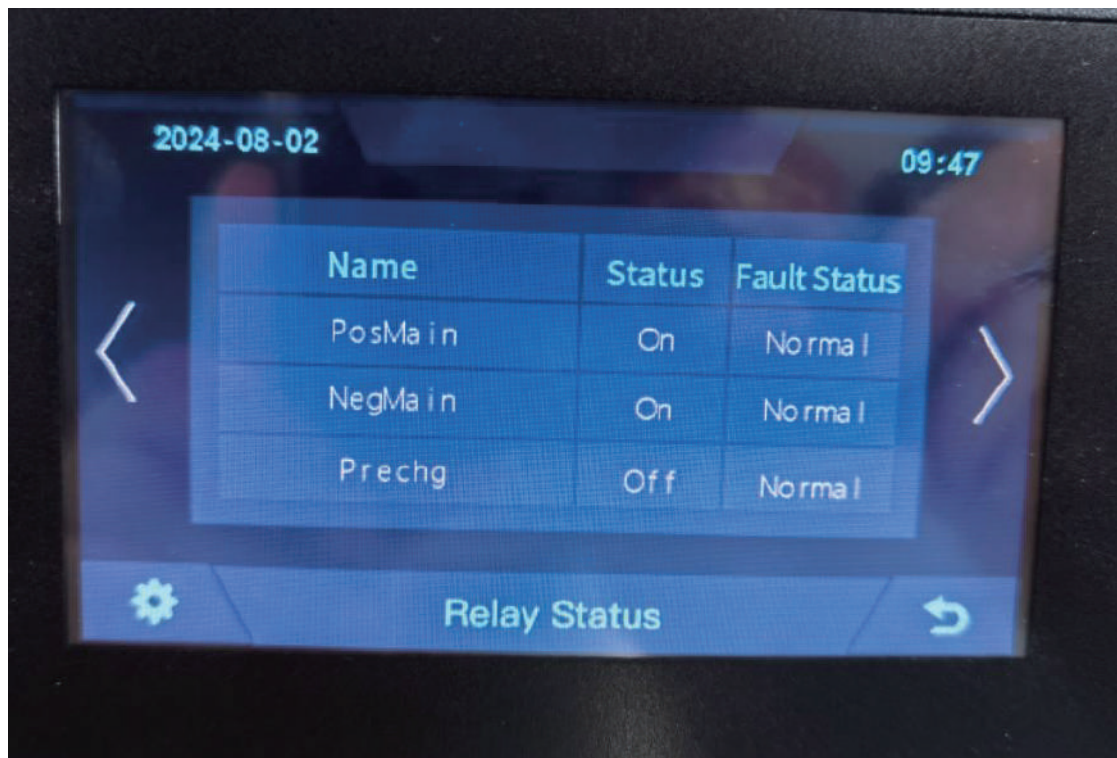
5.3 Cell Temperature



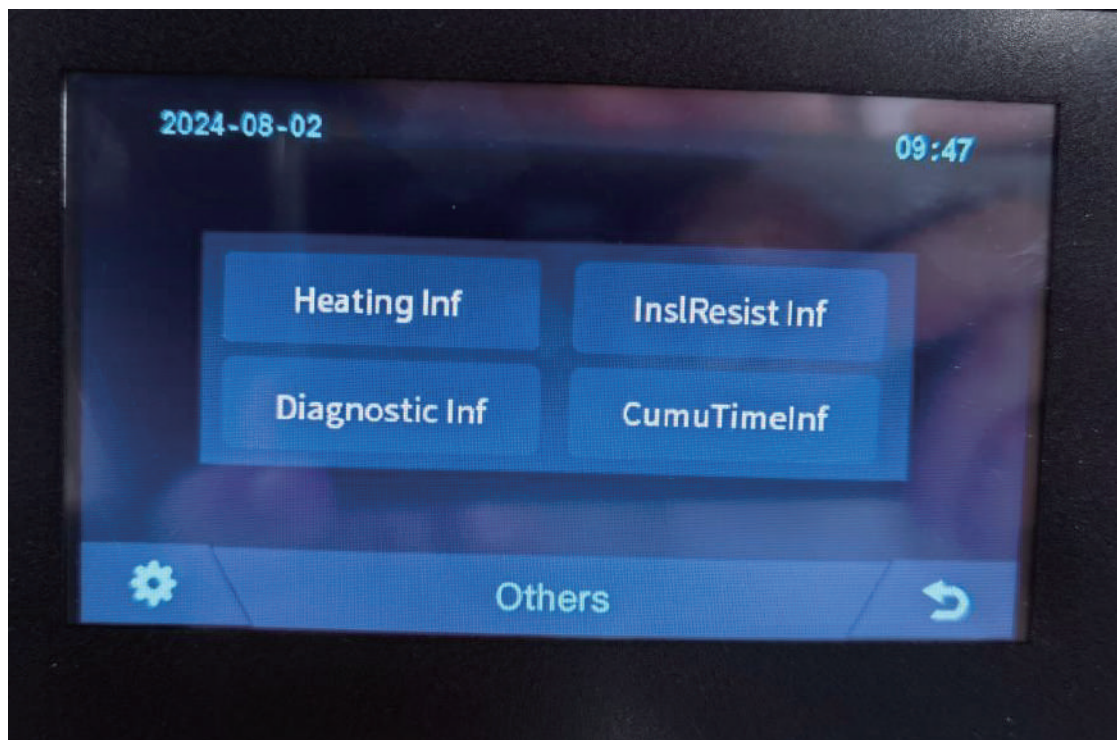
5.4 Heating Temperature



5.5 Relay Status



5.6 Other



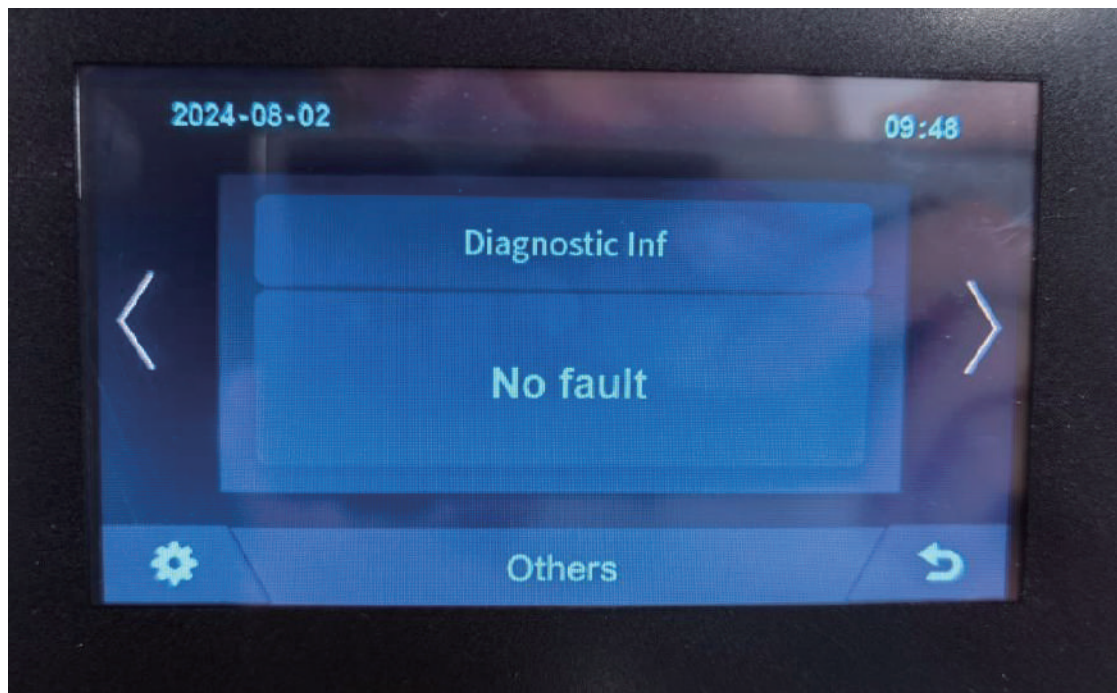
5.6.1 Heating Information



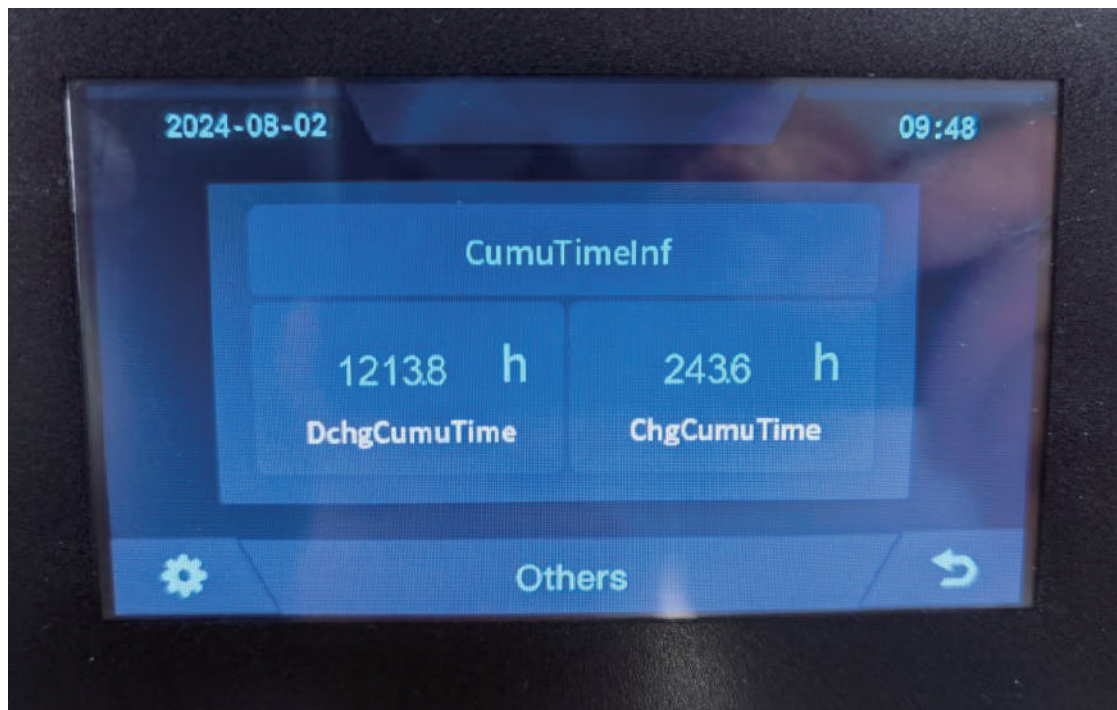
5.6.2 Insulation Resistense



5.6.3 Diagnostic Information



5.6.4 Cumulative Time Information



5.7 Set Up

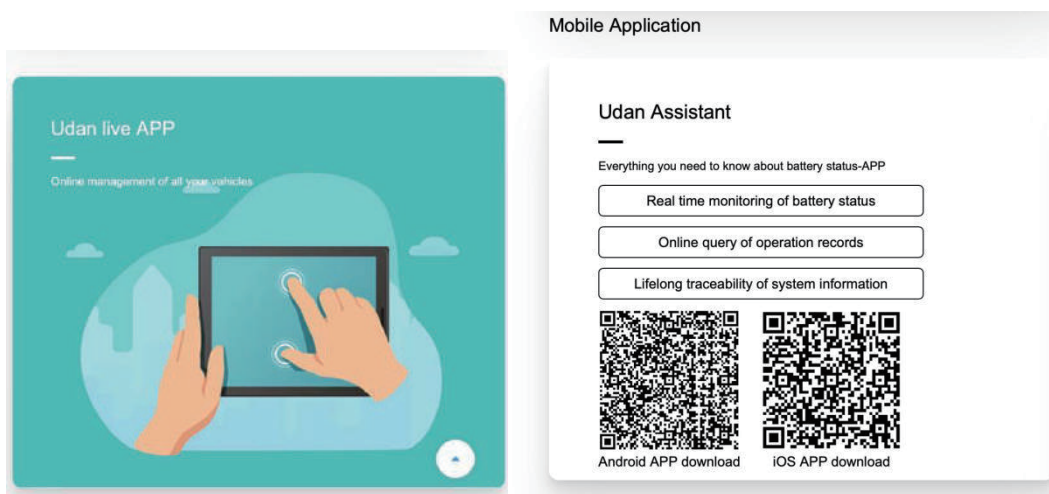
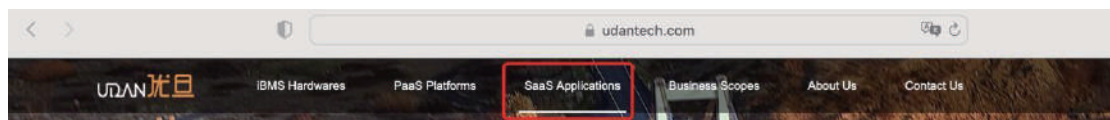


6 Xiaodan Energy Storage App

6.1. App download

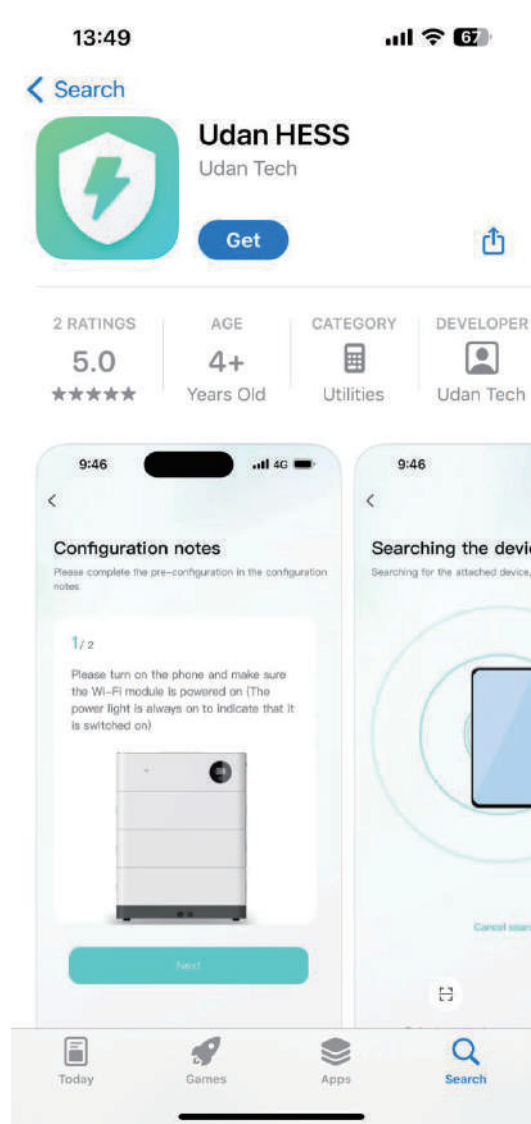
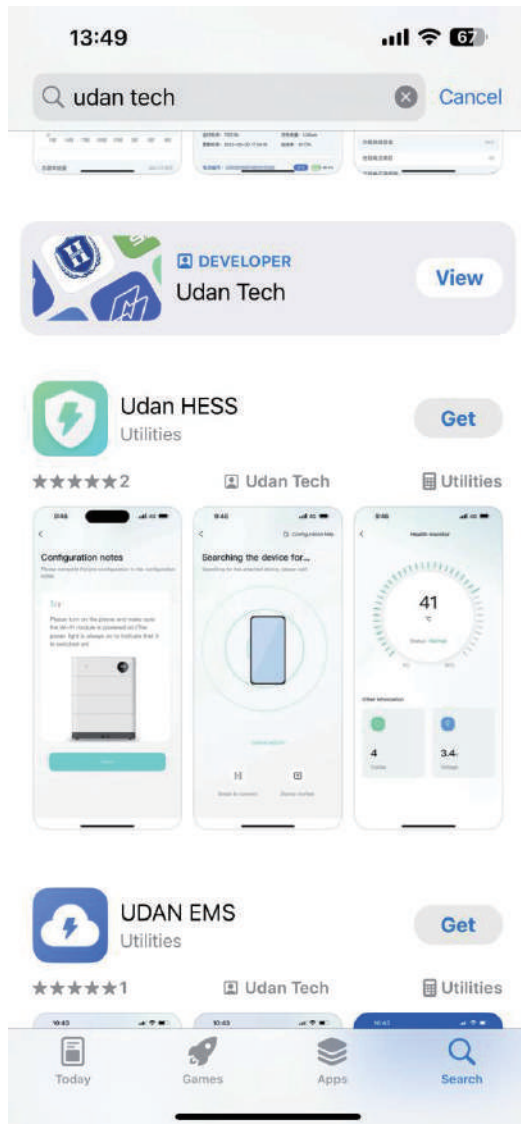
6.1.1 Android version

1. Enter the official website of Youdan Technology <https://www.udantech.com/#/> , click on the "SAAS Application" column in the top navigation bar, pull down to the mobile app application module, and you can see the mobile WeChat Mini Program and App application download.



6.1.2 iOS version

Enter the mobile App Store, search for " Udan HESS ", and you can download and install it.



6.2. Log in and register

6.2.1 Log in

- After opening the APP, enter the login interface to log in with your account.
- Currently supports logging in through email accounts

10:24 4G

English ▼

Email login

Keep track of your device in real time

Please enter your email account

Please enter your password 

Login

☒ Remember pwd [Forgot pwd](#)

 Experience login  Device networking  Account registration

By logging in you are agreeing [Service](#) and [Privacy](#)

6.2.2 Register

- At the bottom of the login page, click the "Account Registration" button to enter the registration process.

- Currently, you can register with an email account. After registration, you need to go through the device verification process and enter the device SN code or device QR code for identification.

The image displays two screenshots of a mobile application interface. The left screenshot, titled 'Account Registration', shows a form with fields for email, password, and a verification code, along with a 'Next' button. The right screenshot, titled 'Device verification', shows a form for entering product serial number, contact person, contact number, and service address, with a 'Finish' button and a link to 'Try the login experience'.

Account Registration
Please enter your email and password

Please enter your email account

Please enter your password

Enter the code

Get code

Next

Device verification
Please fill in the information of the equipment you purchased

Product serial number *

Please enter the serial number or scan the QR code

The following information is for after-sales use only and for no other purpose

Contact person *

Please enter

Contact number *

It is only used as a contact in case of equipment emergency

Service address *

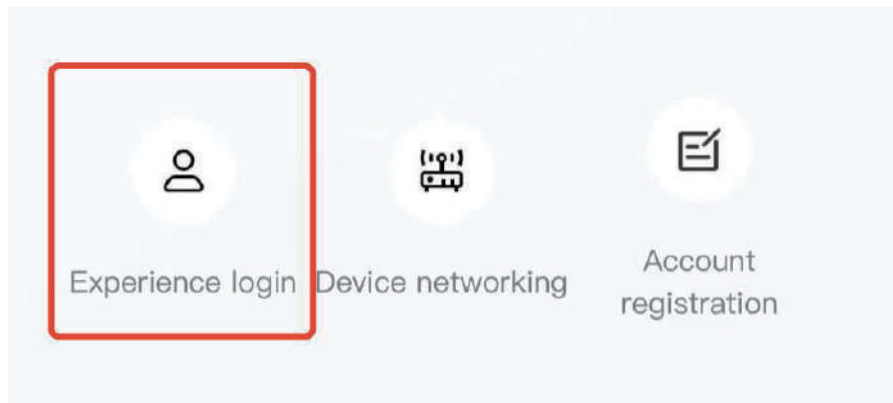
Please enter the address where the device is installed

Finish

No equipment yet? Try the login experience

6.2.3 Experience login

- At the bottom of the login page, click the "Experience Login" button to experience the app function without registration as a tourist.



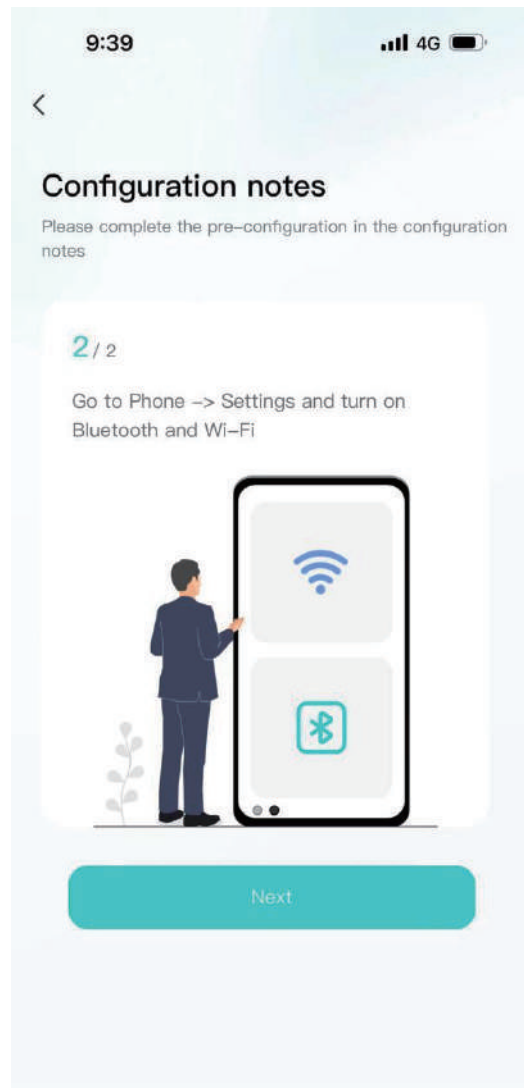
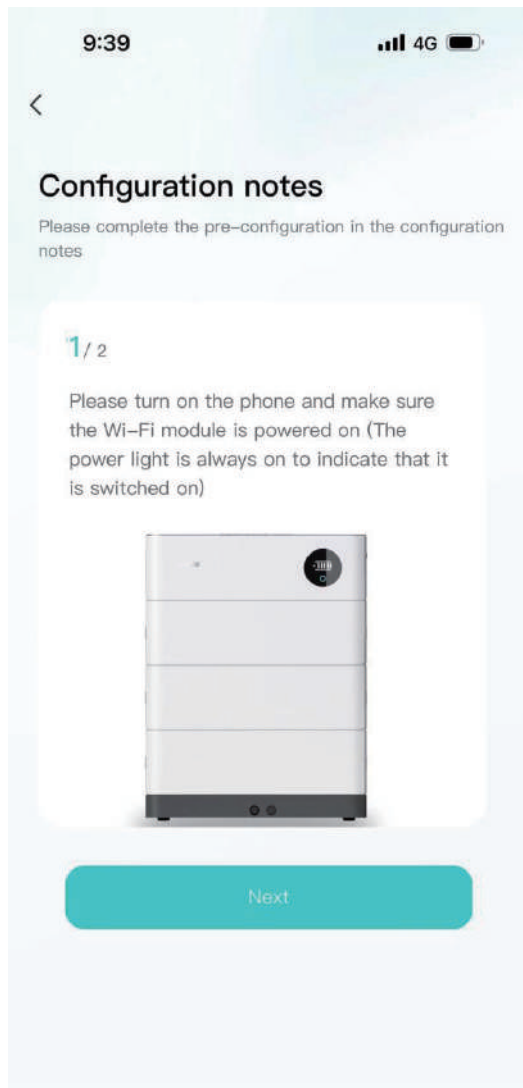
6.3. Equipment distribution network

6.3.1 Overview

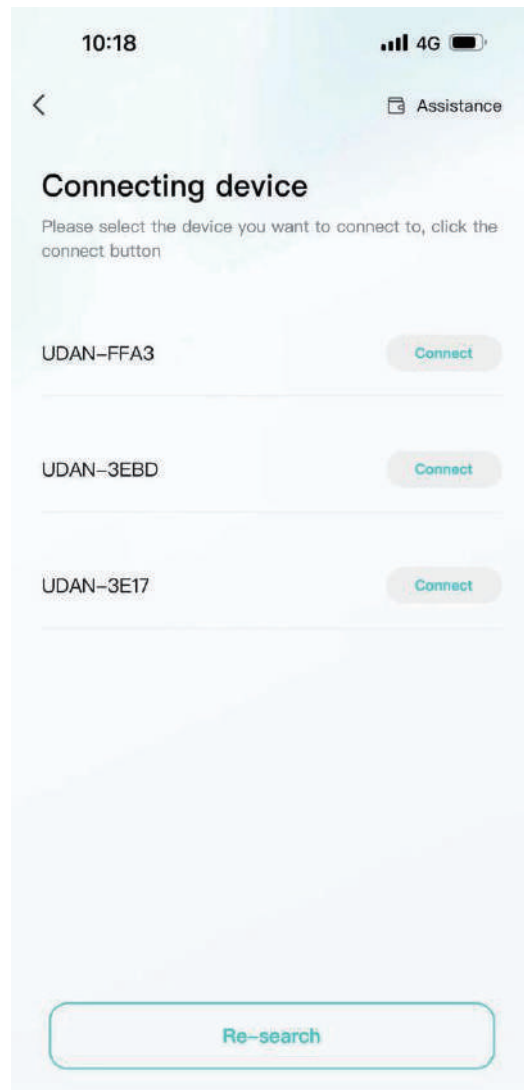
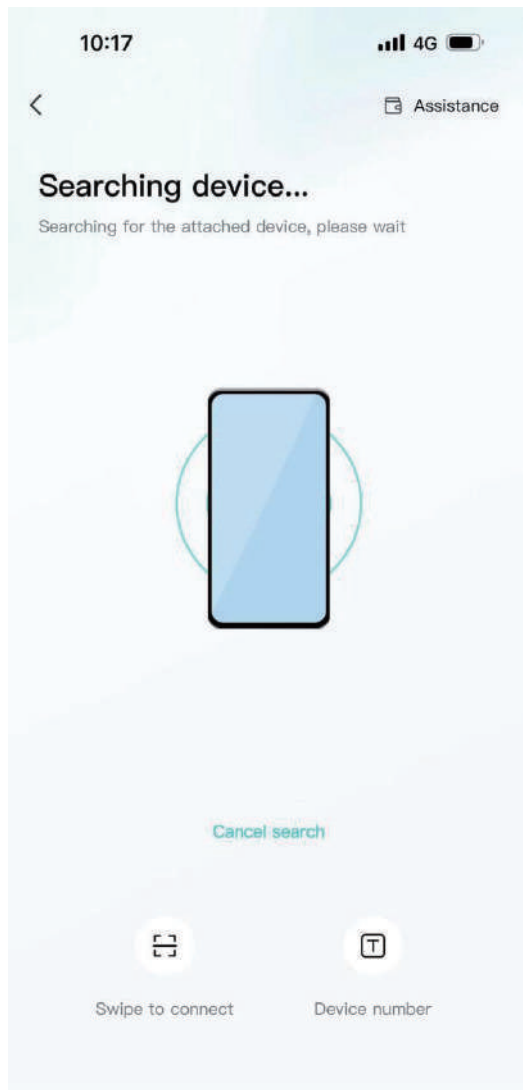
Device distribution network refers to connecting devices to the Cloud Computing Platform to help users obtain real-time device data information.

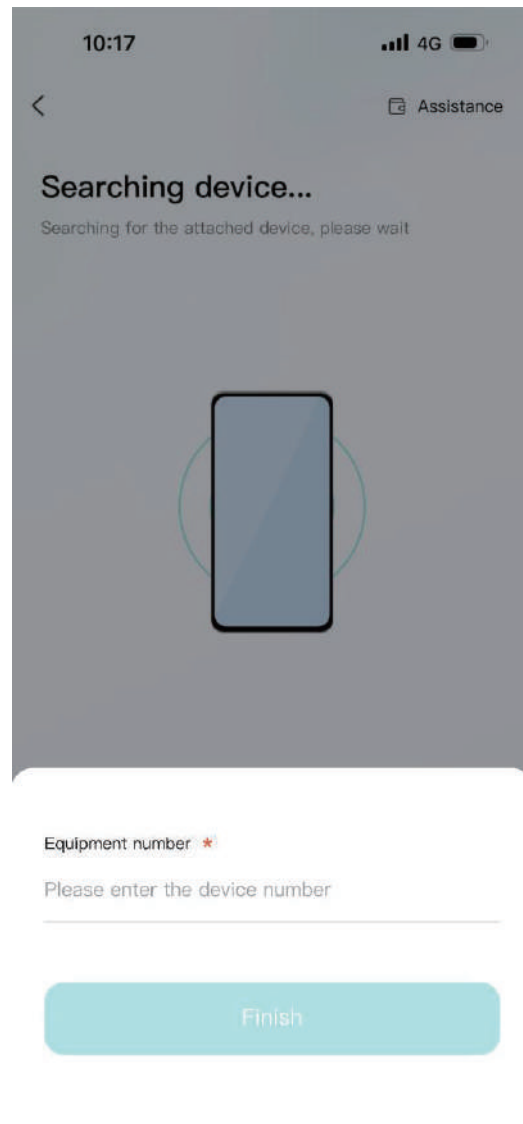
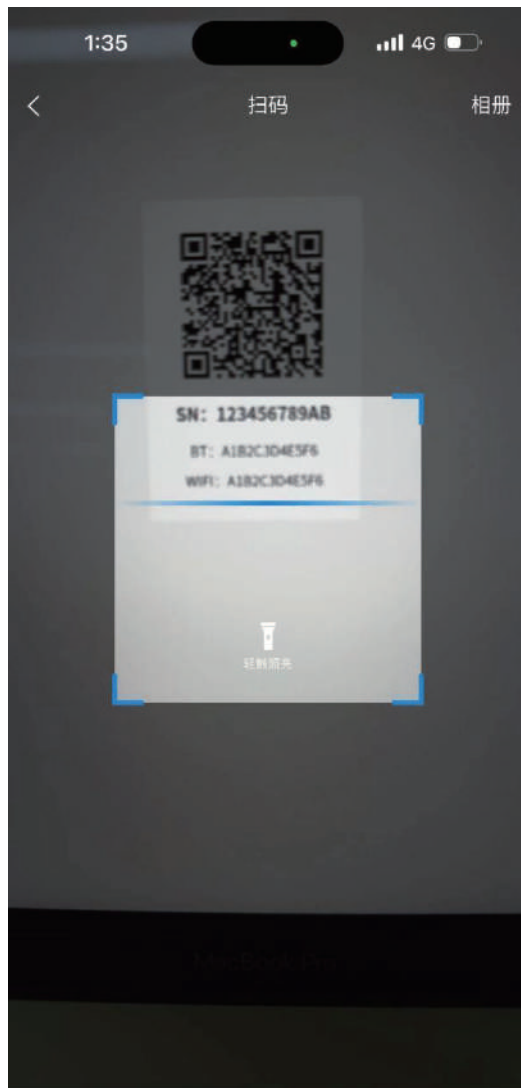
6.3.2 Distribution process

1. Preparation before distribution: Ensure that the **device is on** , turn on the **mobile phone Bluetooth and wireless LAN** functions.



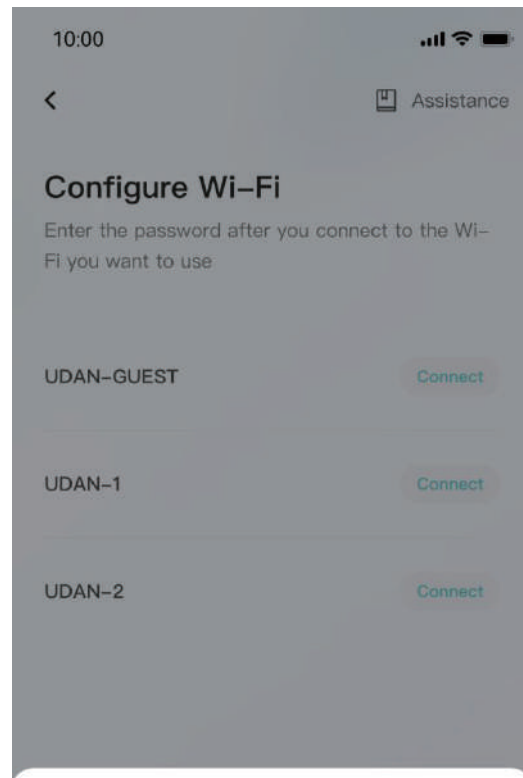
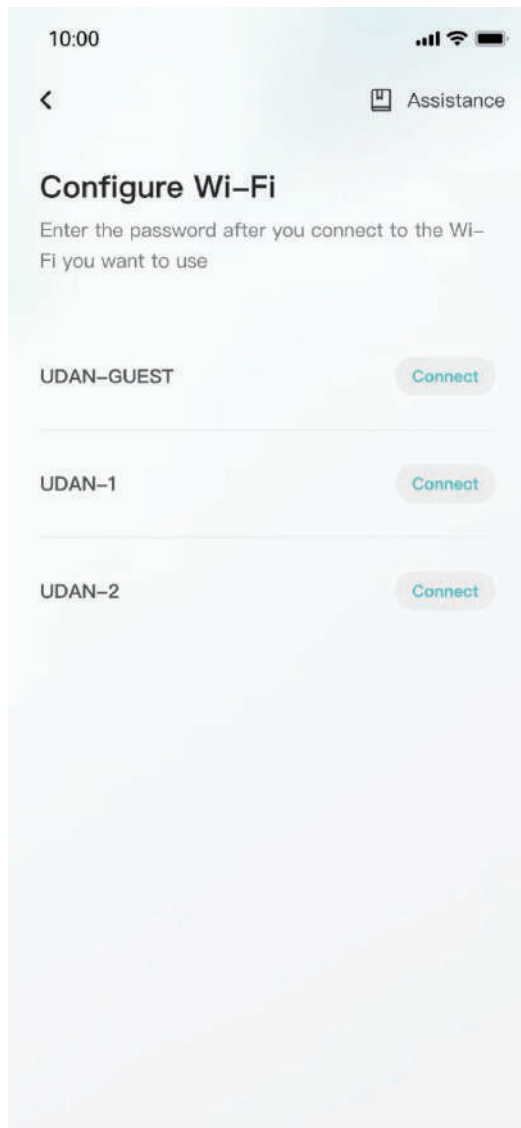
2. Connected devices: The current App supports **Bluetooth search, device scanning, and manual input of SN code** .





3. Connect to WiFi: After the device is connected, enter the WiFi connection process.

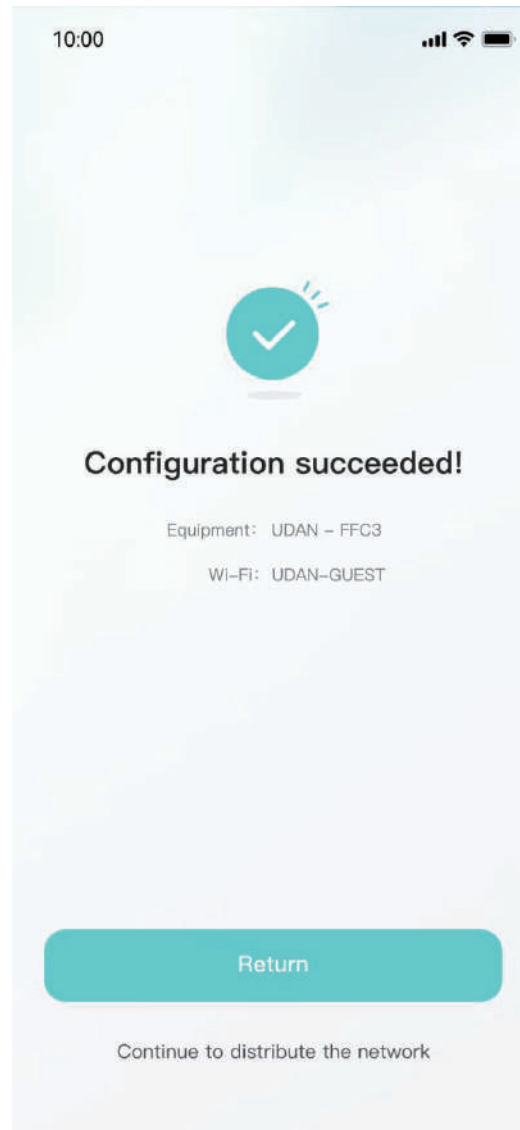
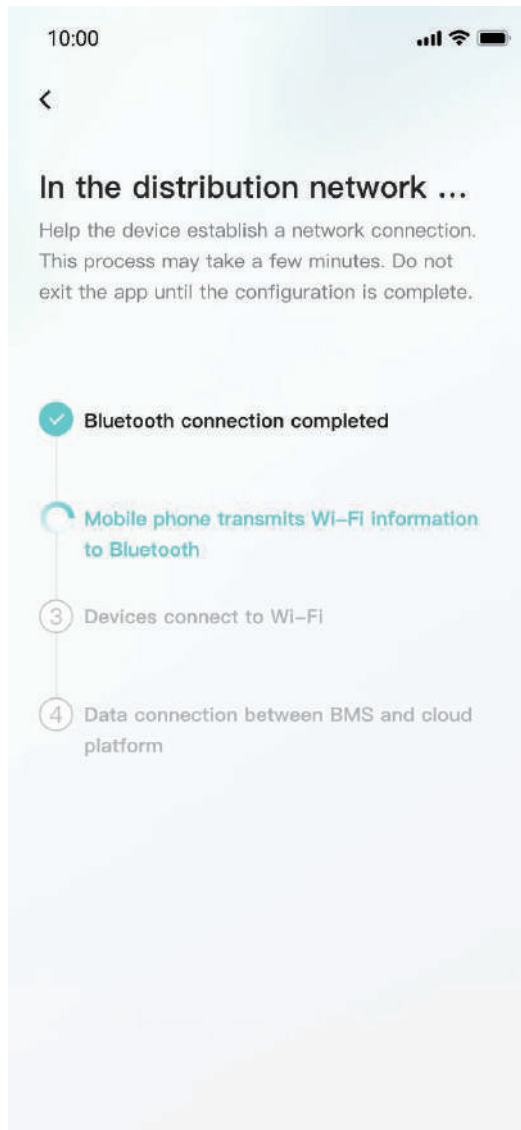
- Select the WiFi you want to use and click the "Connect" button. Enter the WiFi password and click the "Finish" button to distribute the network.



Wi-Fi Password *

Please enter the wireless network password

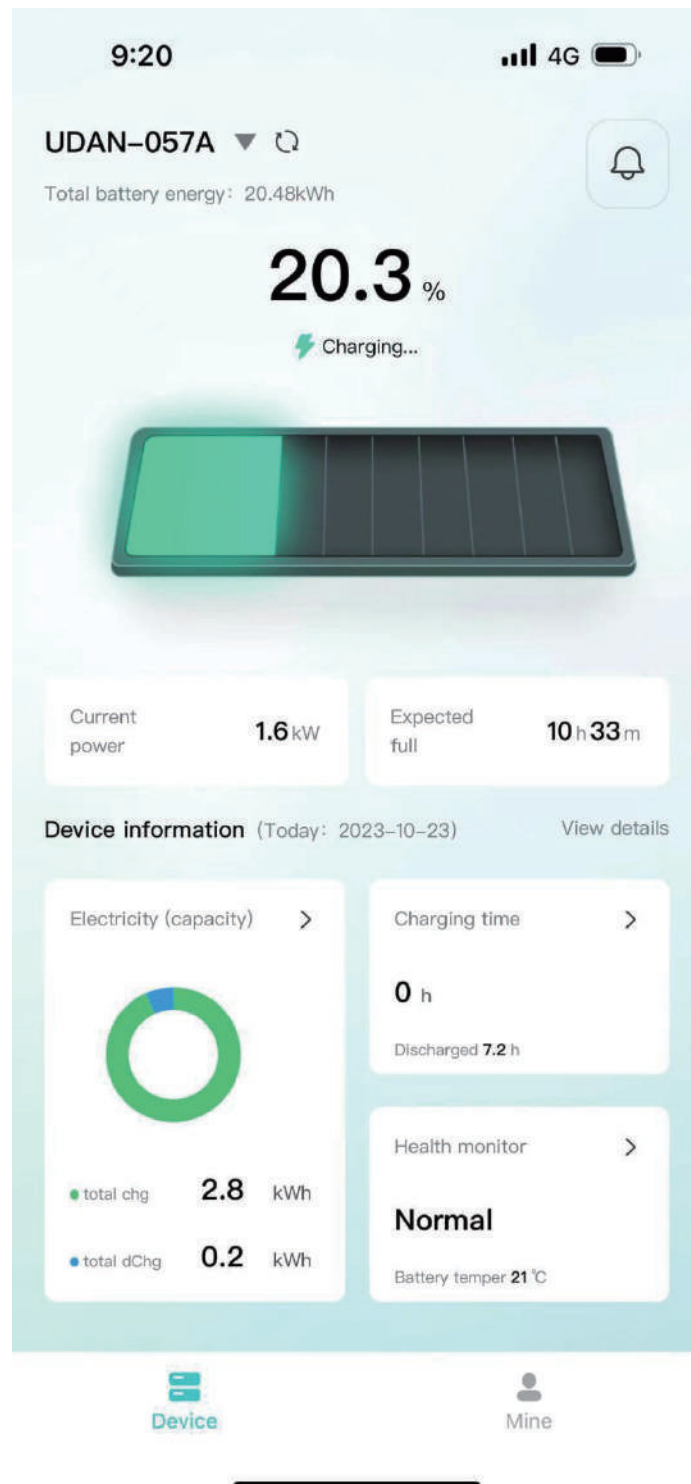
Finish



6.4. App page

6.4.1 Equipment

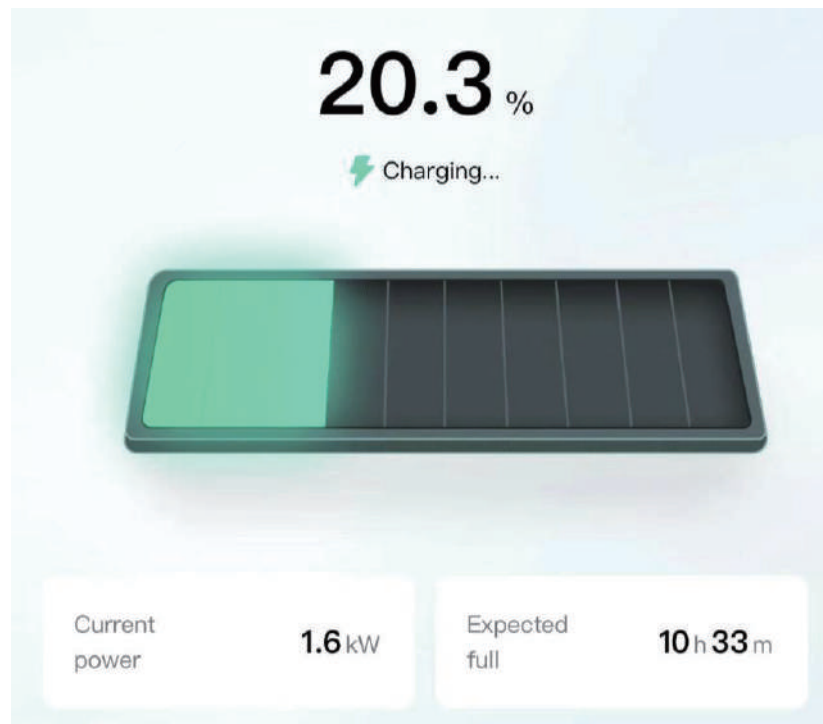
The device homepage is used to display the currently managed device information.



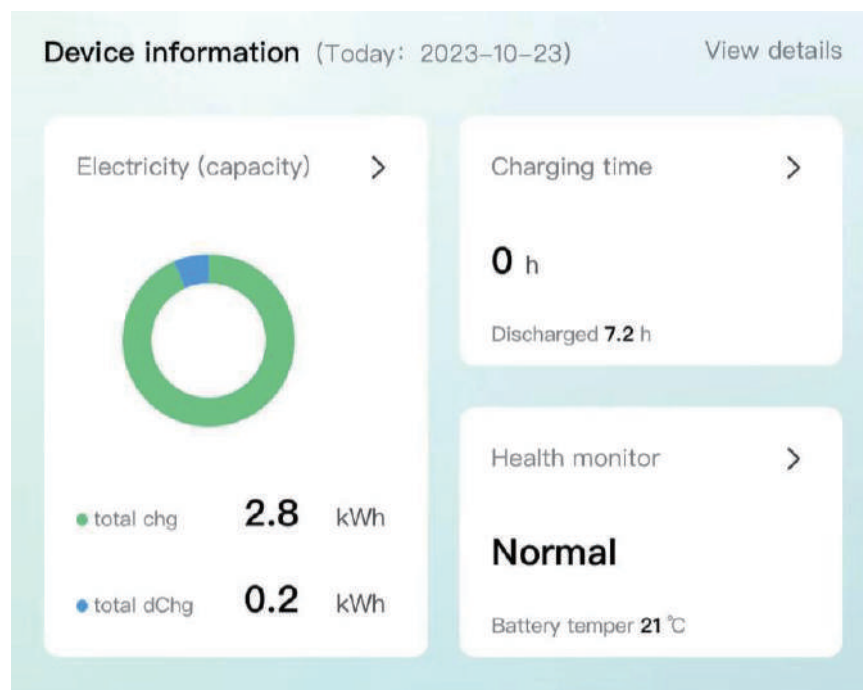
- The top area displays the device name, battery energy, and message entry.



- Middle area: Displays the current battery charging and discharging status, battery percentage, current power, and estimated full time.

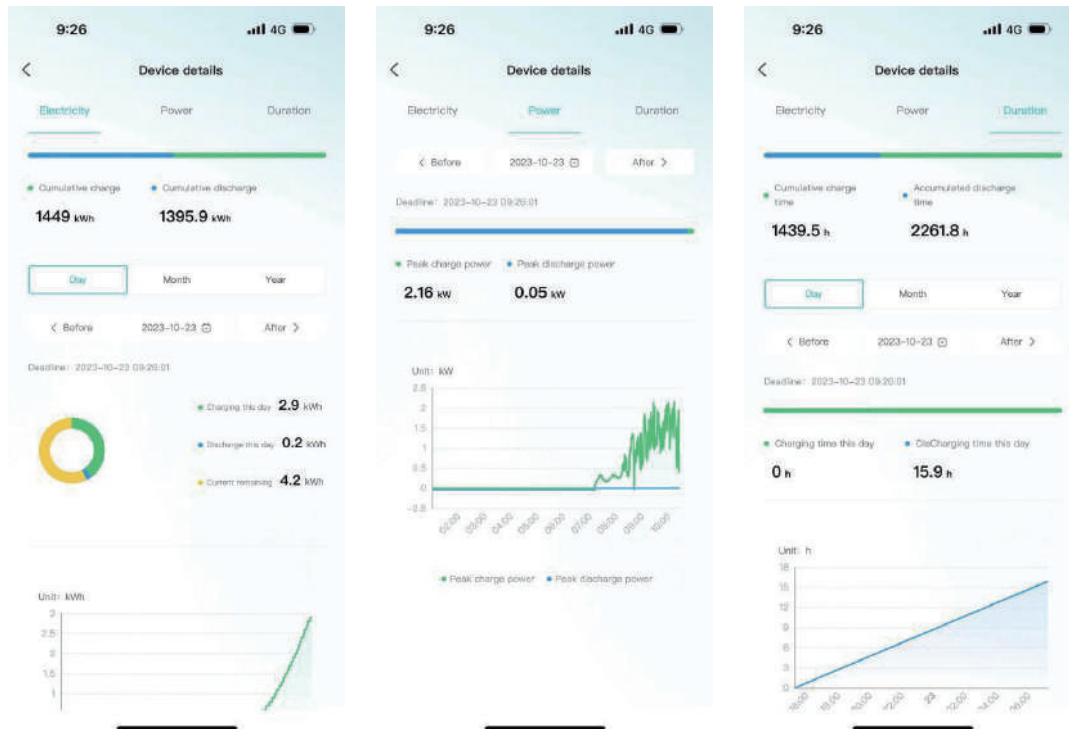


- The bottom area: Displays the device battery, charging time, and health check overview data of the day in the form of a card. You can click the corresponding card to view the details.



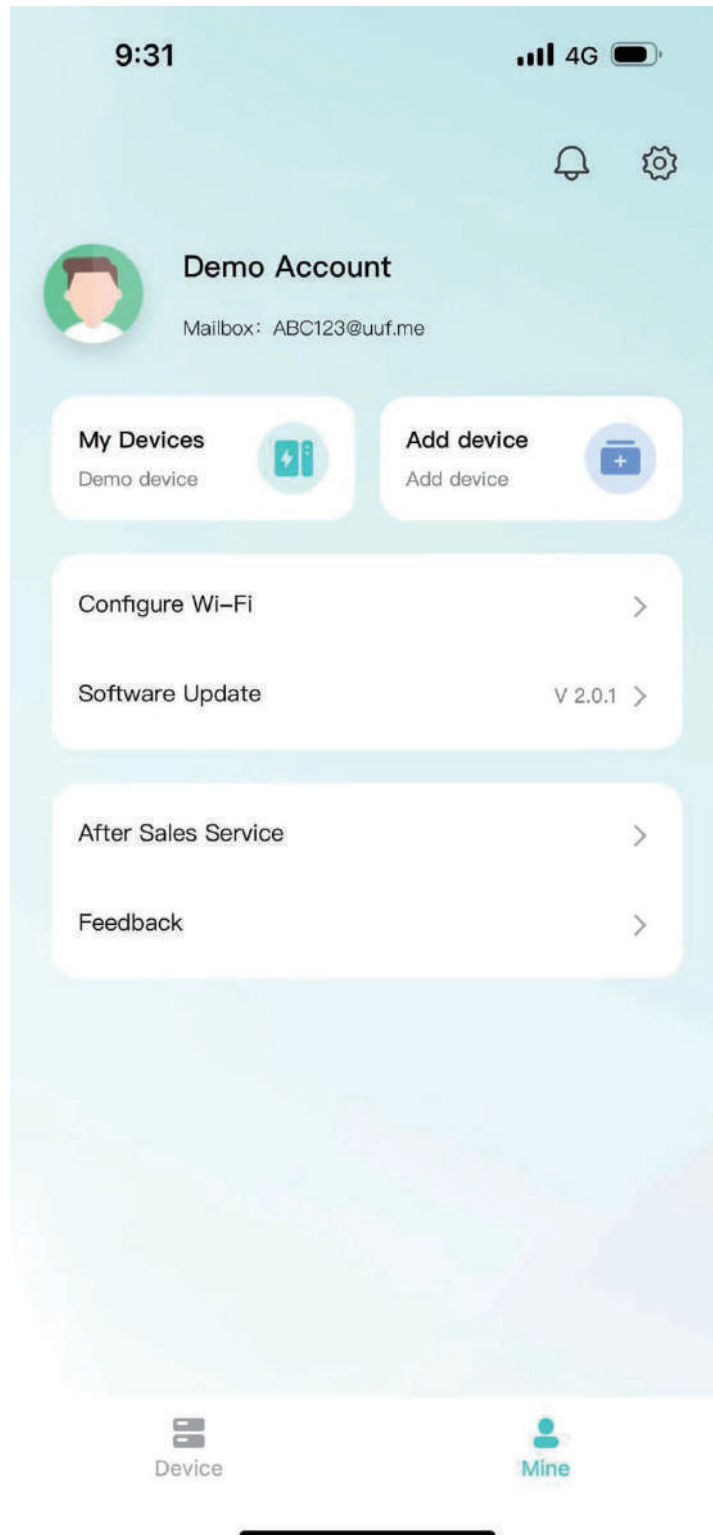
6.4.2 Data details

Display the data details of the current device, and view the battery, charging and discharging power, and charging and discharging time data separately, and support time filtering.

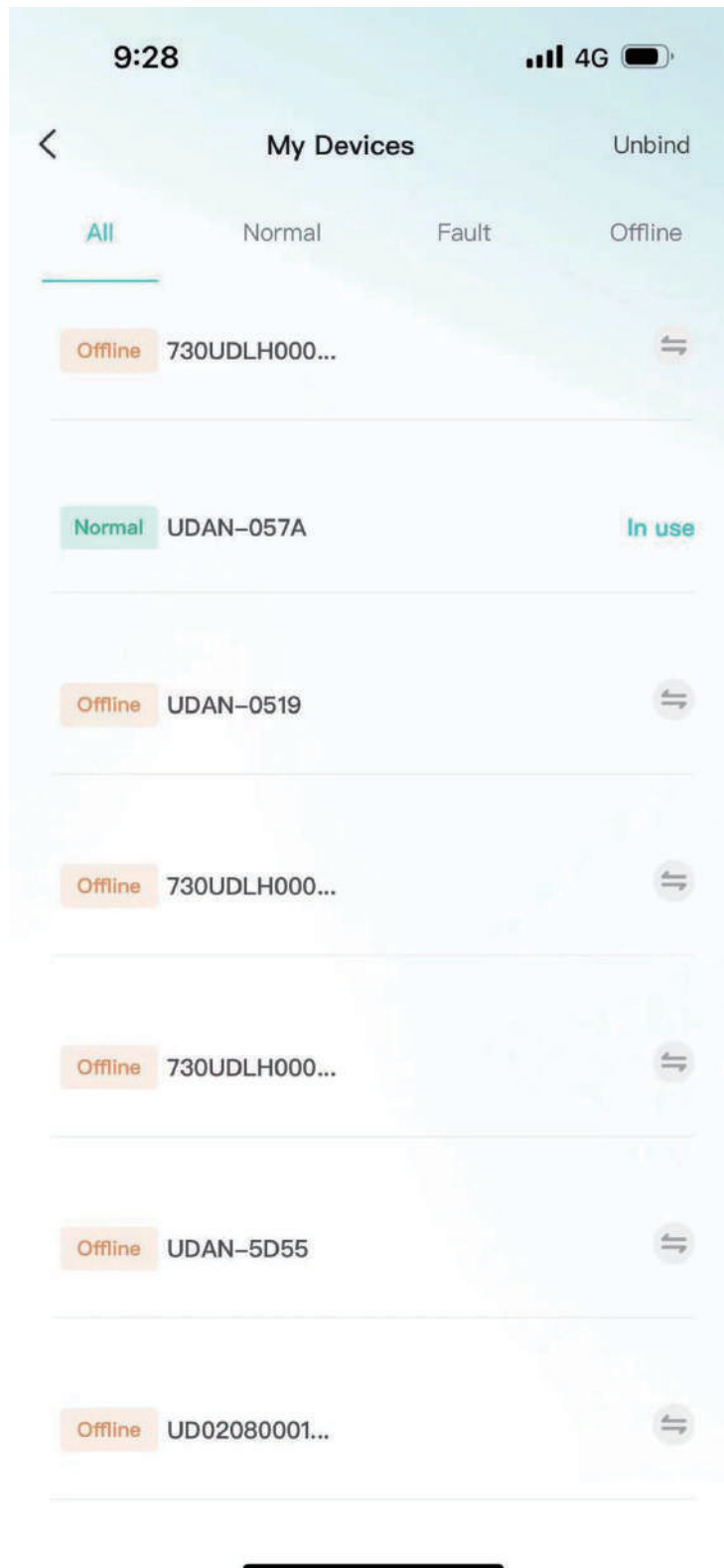


6.4.3 Mine

My page allows users to view **my devices**, **add devices**, **configure WiFi**, **software updates**, **after-sales services**, **problem feedback**, **app settings** .

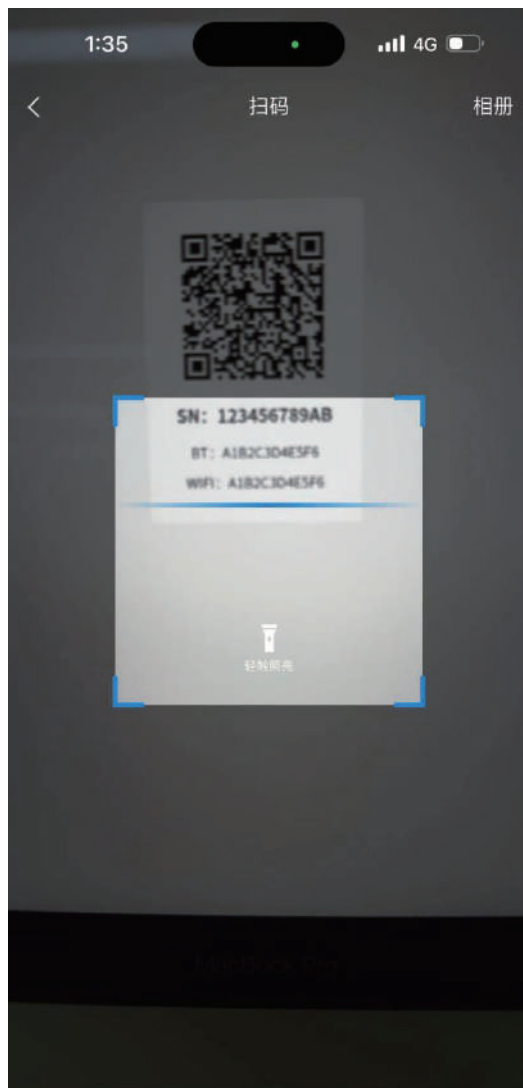


- Click "My Devices" to enter Facility Management. You can view all devices managed under the current account, switch devices displayed on the homepage, unbind devices, and other operations.

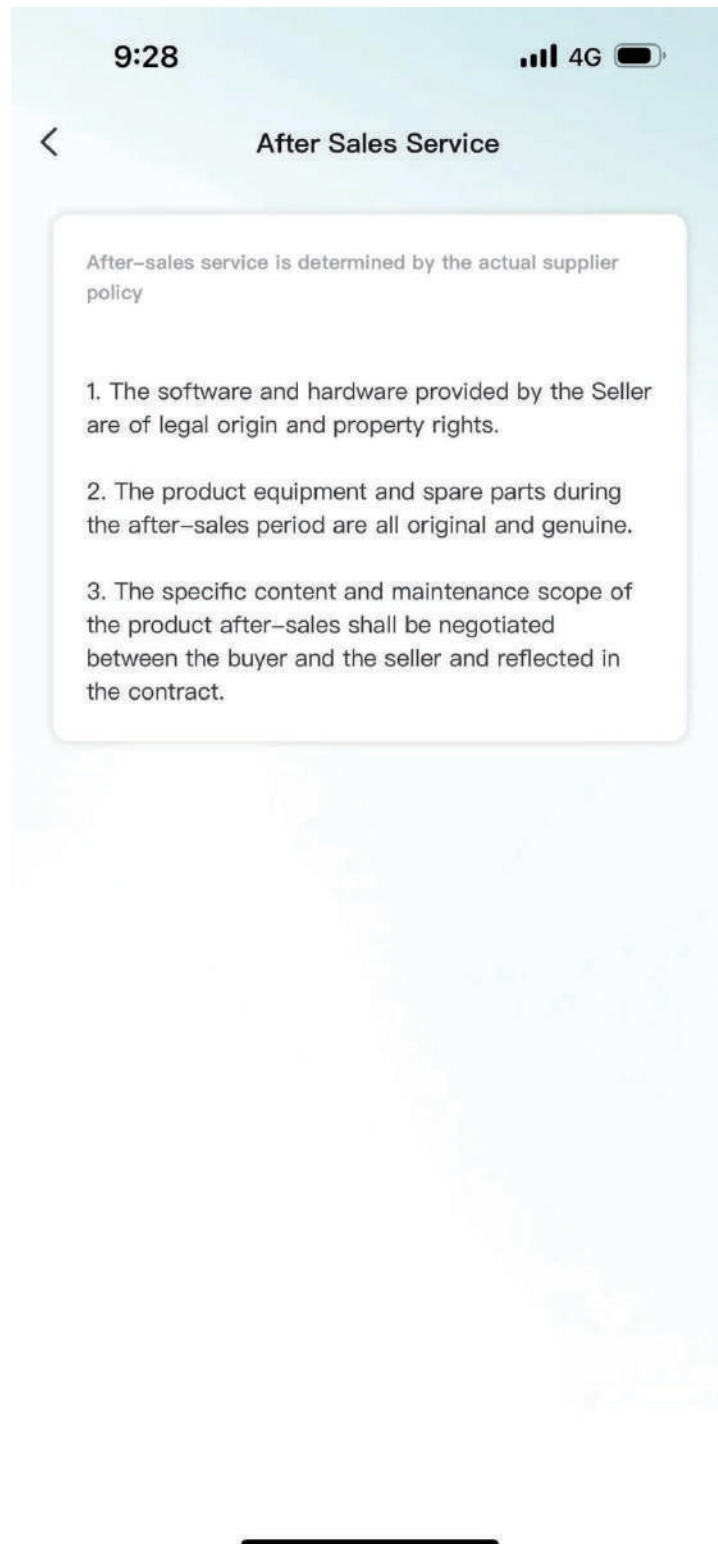


- Click "Add Device" to enter the code scanning page.
- Click "Equipment Distribution Network" to enter the equipment distribution

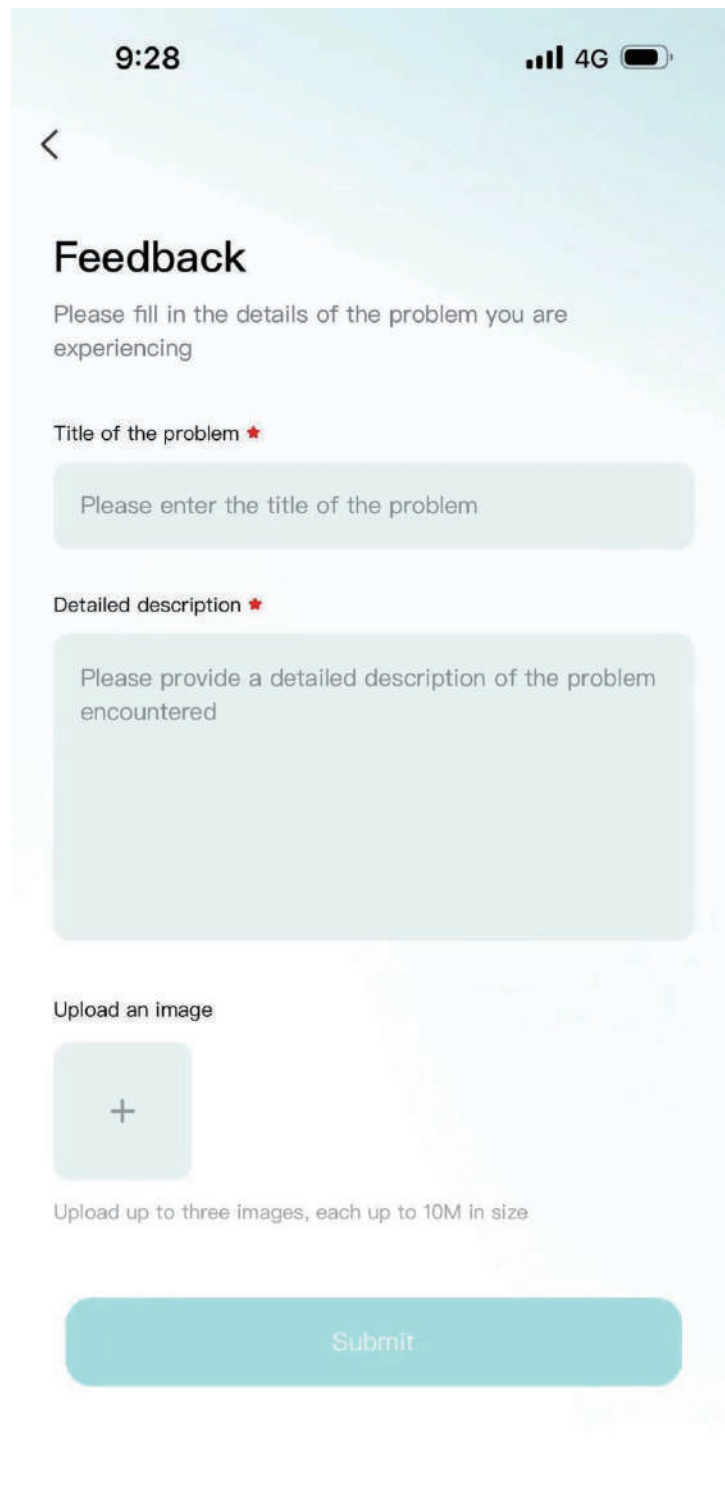
network process.



- After clicking "software update", it will enter the version detection. If there is a new version, it will be updated.
- Click "after-sales services" and enter the after-sales services page to display the after-sales services declaration of the current supplier.



- Click "Feedback" to enter the feedback page. You can enter the current problem that needs feedback and submit it.

A screenshot of a mobile application's feedback form. At the top, the status bar shows the time 9:28, 4G signal, and battery level. Below the status bar is a back arrow icon. The title 'Feedback' is centered. Below it, a subtitle reads 'Please fill in the details of the problem you are experiencing'. The form has two main sections: 'Title of the problem' with a red star icon and a text input field containing the placeholder 'Please enter the title of the problem'; and 'Detailed description' with a red star icon and a larger text area containing the placeholder 'Please provide a detailed description of the problem encountered'. Below these is an 'Upload an image' section with a square button containing a plus sign. Underneath the button, it says 'Upload up to three images, each up to 10M in size'. At the bottom of the form is a large teal 'Submit' button. The background of the form has a faint world map.

9:28 4G

<

Feedback

Please fill in the details of the problem you are experiencing

Title of the problem ★

Please enter the title of the problem

Detailed description ★

Please provide a detailed description of the problem encountered

Upload an image

+

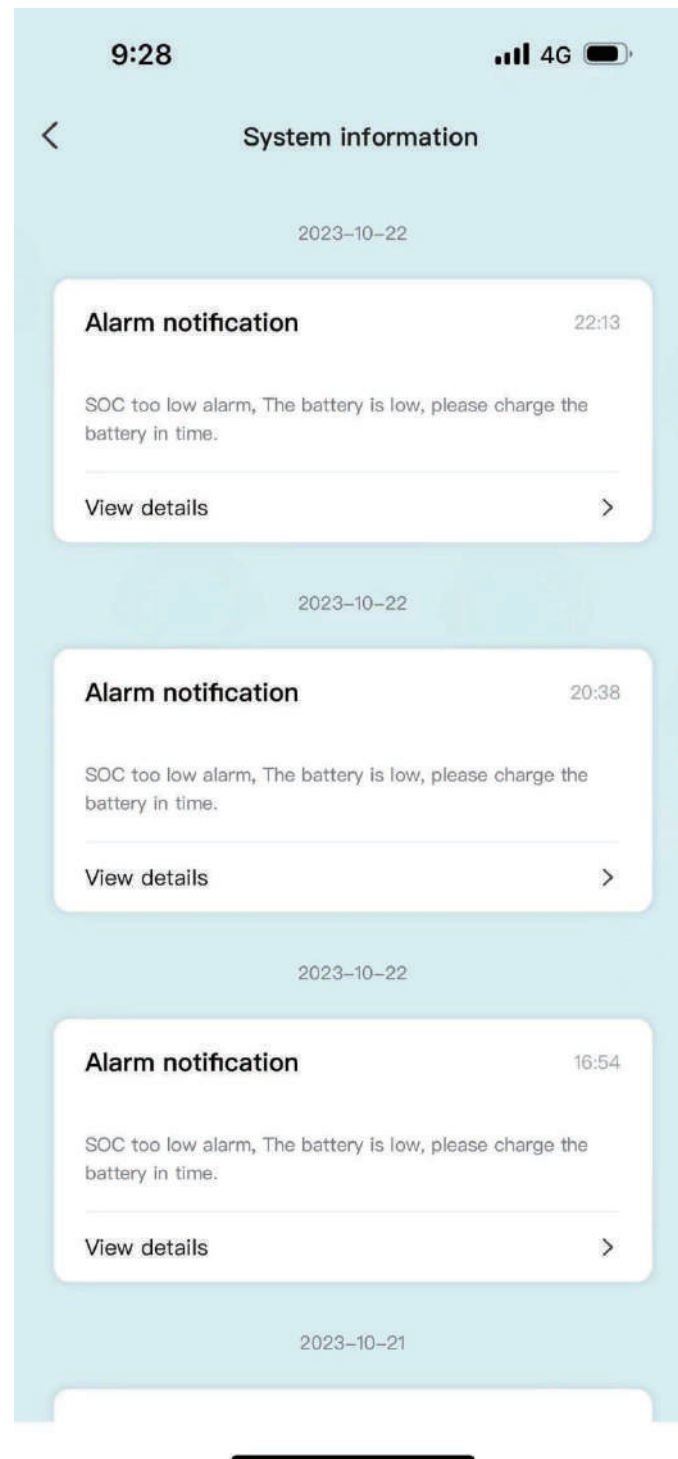
Upload up to three images, each up to 10M in size

Submit

6.4.4 Message

Click on the device or my page, the message icon above, you can enter the inbox

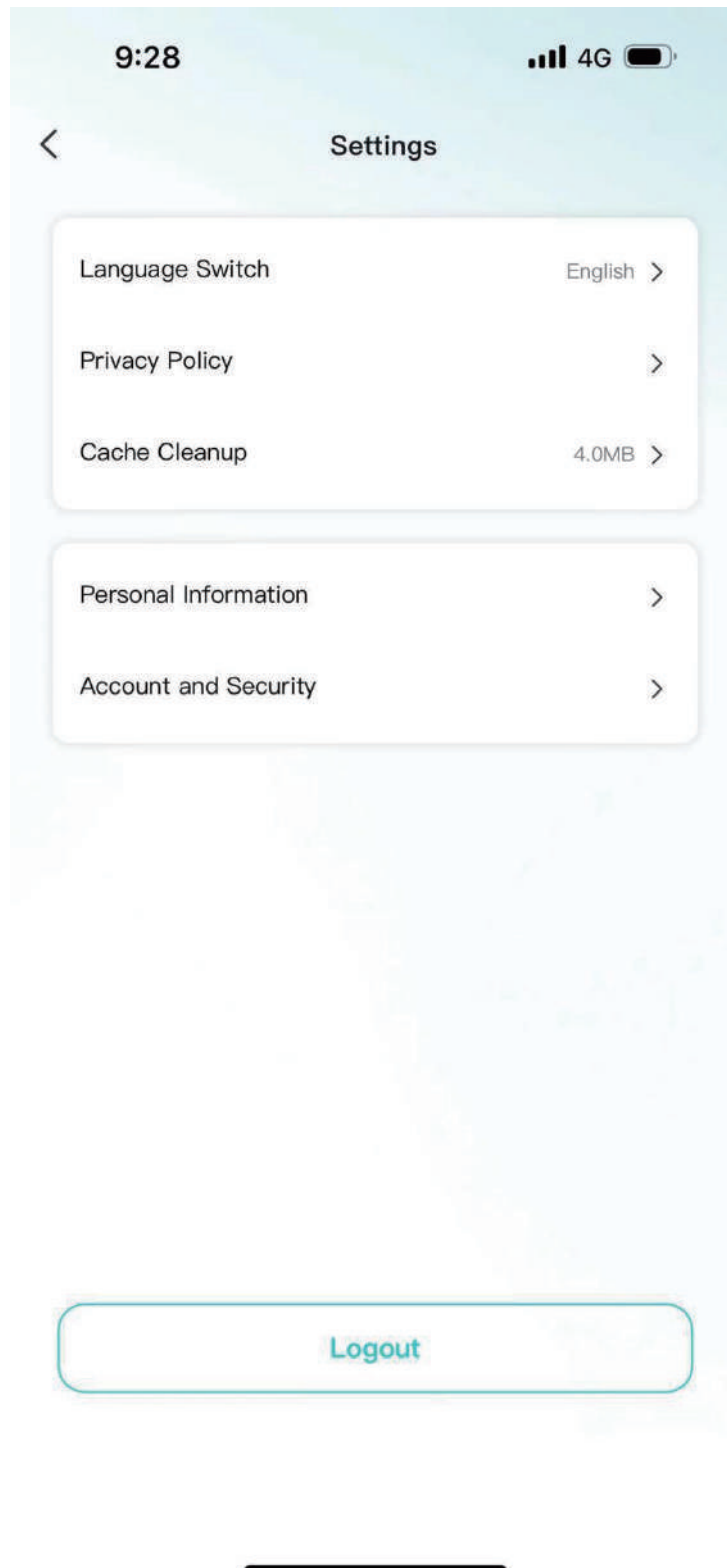
page to view the current notification or chat history.



6.4.5 App settings

- Click My Pages - Settings icon in the upper-right corner to enter the App Settings page.

- Settings page support: language switching, Privacy Policy, cache cleaning, personal information, account and security.



7 Maintenance



Warning! Improper decommissioning may cause damage to the equipment and/or

battery inverter.

Before maintenance, ensure that battery is decommissioned according to relevant provisions.



Note: All maintenance work shall comply with local applicable regulations and standards.

The USB-CAN port of battery has the functions of upgrading firmware and recording battery data, which can be used as an auxiliary tool.

To ensure safe operation, all plug connections must be checked. If necessary, relevant operators shall press them back into place at least once a year.

The following inspection or maintenance must be carried out once a year:

- General visual inspection
- Check all tightened electrical connections. Check the tightening torque according to the values in the following table. Loose connections must be retightened to the specified torque.

Connection mode	Tightening torque
high-voltage BMS box grounding	4.5Nm
Fixing the lug of the high-voltage BMS box	1.2Nm
Fixing the lug of the battery module	1.2Nm

- Using the monitoring software, check whether the SoC, SoH, battery voltage and temperature of the battery module are abnormal.
- Shut down and restart battery once a year.

Note: If the system is installed in a polluted environment, maintenance and cleaning must be carried out at short intervals.

Note: Clean the battery rack with a dry-cleaning cloth. Ensure that no moisture comes into contact with the battery connections. Do not use solvents.



Attention:

1. Do not dispose of batteries and rechargeable batteries as domestic waste!

You are legally obliged to return used batteries and rechargeable batteries.

2. Waste batteries may contain pollutants that can damage the environment or your health if improperly stored or handled.

3. Batteries also contain iron, lithium and other important raw materials, which can be recycled.

Do not dispose of batteries as household waste!

