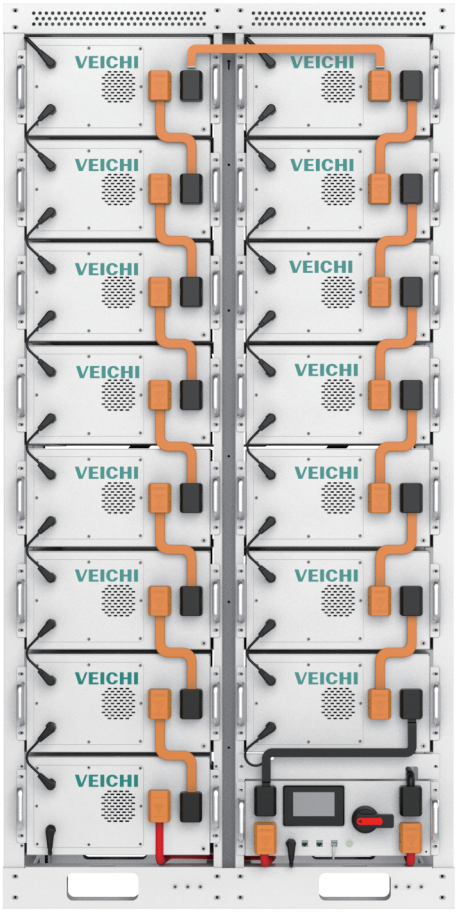
VEICHI

Rechargeable Li-ion Battery System

VEICHI-314



USER MANUAL

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Version Change Log

Date	Version	Content
2026.05	V1.0	First version released

1 Important Information

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 commissioning, and maintenance of VEICHI-314. Installation, preliminary commissioning, 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 applies only to countries that meet the certification requirements. Please observe the applicable local laws, regulations, and standards. The 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 of VEICHI-314

Model	System energy (kWh)	Rated DC power(kW)	Discharge depth	Composition
VEICHI-48K.314	48	24.0	90%	VCHB-16K-R01*3+VC-5.5U-2X8* 1
VEICHI-64K.314	64	32.0	90%	VCHB-16K-R01*4+VC-5.5U-2X8* 1
VEICHI-80K.314	80	40.0	90%	VCHB-16K-R01*5+VC-5.5U-2X8* 1
VEICHI-96K.314	96	48.0	90%	VCHB-16K-R01*6+VC-5.5U-2X8* 1
VEICHI-112K.314	112	56.0	90%	VCHB-16K-R01*7+VC-5.5U-2X8* 1
VEICHI-128K.314	128	64.0	90%	VCHB-16K-R01*8+VC-5.5U-2X8* 1
VEICHI-144K.314	144	72.0	90%	VCHB-16K-R01*9+VC-5.5U-2X8* 1
VEICHI-160K.314	160	80.0	90%	VCHB-16K-R01* 10+VC-5.5U-2X8* 1
VEICHI-176K.314	176	88.0	90%	VCHB-16K-R01* 11+VC-5.5U-2X8* 1
VEICHI-192K.314	192	96.0	90%	VCHB-16K-R01* 12+VC-5.5U-2X8* 1
VEICHI-208K.314	208	104.0	90%	VCHB-16K-R01* 13+VC-5.5U-2X8* 1
VEICHI-225K.314	225	112.5	90%	VCHB-16K-R01* 14+VC-5.5U-2X8* 1
VEICHI-241K.314	241	120.5	90%	VCHB-16K-R01* 15+VC-5.5U-2X8* 1

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, achieving a voltage-free state may take some time.

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

 **Warning!** If the instructions are not observed, personnel injury or equipment damage 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 the battery catches fire, please use the CO^2 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 components may 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 with 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 may result in death. Operators of VEICHI-314 must read this manual and observe all safety information.
2. Operators of VEICHI-314 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, residual hazards may exist under the following circumstances:
   - Incorrect installation.
   - The installation is carried out by personnel who have not received relevant training or guidance.
   - Failure to observe the warnings and safety information in this manual. If there are any questions, please contact VEICHI after-sales service.

1.5 Disclaimer

Suzhou Veichi Electric Co., Ltd. shall not be liable for personal injury, property loss, product damage and subsequent losses under the following circumstances.

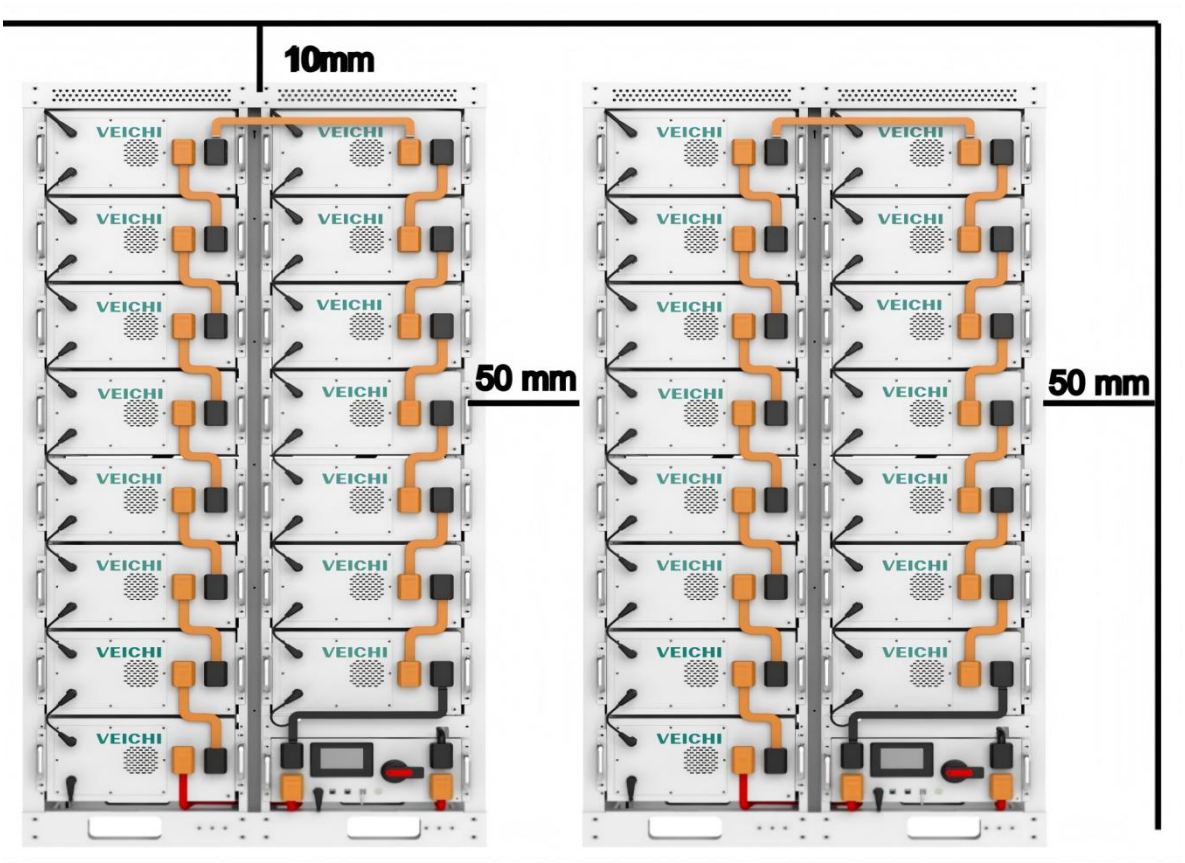
- Failure to comply with the provisions of this manual.
- Incorrect use of this product.
- Unauthorized or unqualified personnel repair the product, disassemble the rack and perform other operations.
- Use of unapproved spare parts.
- Unauthorized modifications or technical changes to the product.

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 VEICHI-314 is -20℃~55℃, and the maximum humidity is 85%. The battery module shall not be exposed to direct sunlight 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 altitude.
- In areas where flooding may occur, care must be taken to ensure that the battery module is installed at a suitable height and does not come into contact with water.
- The battery energy storage system must be installed in a fireproof room. This room must not contain any fire sources and must be equipped with an independent fire alarm device, which complies with applicable local regulations and standards. According to applicable local regulations and standards, the room must be separated by a 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 VEICHI-314 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)
- Use in medical devices.
- Use as a UPS system.

1.7 Requirements for Installation Personnel

All work shall comply with applicable local regulations and standards.

The installation of VEICHI-314 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 commissioning of electrical equipment.
- Understanding and complying with applicable technical connection requirements, standards, guidelines, regulations, and laws.
- Knowledge of lithium-ion battery handling (transportation, storage, disposal, hazard sources).
- 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:

- Ensure that the system is disconnected from operation.
- Ensure that it will not restart.
- Ensure that no voltage is present.
- Ensure grounding 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 all 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. Use of the battery energy storage system beyond its intended purpose is not allowed, because it may cause great danger.

Improper handling of the battery energy storage system can pose 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 commissioned no later than six months after delivery.

3 Transportation

3.1 Provisions

It is necessary to comply with the relevant road transportation regulations for shipping lithium-ion products in the corresponding countries.



- It is prohibited to smoke in the vehicle during transportation or in the vicinity of loading and unloading operations.
- The dangerous goods transport vehicles shall meet relevant regulations concerning road transportation and shall be equipped with two tested CO^2 fire extinguishers.
- It is forbidden for the freight forwarder to open the outer package of the battery module. Use 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 kept vertical to prevent it from sliding in the vehicle, and a fixing belt shall be used.
- A tilting of the battery rack may cause injury. When tilted, it 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 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 arriving 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. A single battery module weighs 122.0 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 injury. When transporting the battery rack and battery module, body parts may be crushed due to the heavy weight of the equipment. 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.
- We suggest that at least 2-3 people work together to install the battery rack. A lifting device is helpful for heavy parts, and a pulley or cart is helpful for light parts. Be careful not to damage the case. Check whether the delivery is complete.

3.2 Storage Positions

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

4 Installation

4.1 Installation Precautions

WARNING! Possible damage to the building due to static overload

1. The total weight of the battery storage system is 122kgs. 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 Product Description

VEICHI-314 is a high-voltage lithium-ion 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 a high level of 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 16.07 kWh. It supports up to 15 battery modules connected in series. Its total energy can be expanded from 48.23 kWh to 241.15kWh.

4.3 Technical Data

Technical specification	48KWH	64KWH	80KWH	96KWH	112KWH	128KWH	144KWH
Installation Mode	Racked						
Battery Type	LiFePO4(LFP)						
Module Energy(kWh)	16076						
Module Nominal Voltage(V)	51.2						
Module Capacity(Ah)	314						
System Module	VEICHI-48K-314	VEICHI-64K-314	VEICHI-80K-314	VEICHI-96K-314	VEICHI-112K-314	VEICHI-128K-314	VEICHI-144K-314
Nominal Voltage (V)	DC 153.6 V	DC 204.8 V	DC 256 V	DC 307.2 V	DC 358.4 V	DC 409.6 V	DC 460.8 V
Working Voltage (V)	DC139.2V~172.8V	DC185.6V~230.4V	DC232.0V~288.0V	DC278.4V~345.6V	DC324.8V~403.2V	DC371.2V~460.8V	DC417.6V~518.4V
Nominal Capacity(Ah)	314	314	314	314	314	314	314
Rated Energy (Wh)	48230	64307	80384	96460	112537	128614	144691
Dimension (mm, L±2;W±2;H±5)	553*850*1174	553*850*1418	553*850*1662	553*850*1906	553*850*2150	1075*850*1418	1075*850*1418

Weight (Kg)	445	573	702	830	958	1116	1236
Battery Module Qty In Series(Optional)	3	4	5	6	7	8	9
Recommended Charge/Discharge Current(A)	157						
Communication	CAN						
Ingress Protection	IP20						
Altitude	≤2000m						
Cycle Life	25±2℃, 0.5C/0.5C, EOL70%≥6000						
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, module temperature						
SOC	Intelligent algorithm						
Working Temperature	0~55℃ for charging, -20~55℃ for discharging						
Storage Temperature	0~35℃						

Technical specification	160KWH	176KWH	192KWH	208KWH	225KWH	241KWH
Installation Mode	Racked					
Battery Type	LiFePO4(LFP)					
Module Energy(kWh)	16076					
Module Nominal Voltage(V)	51.2					
Module Capacity(Ah)	314					
System Module	VEICHI-160K-314	VEICHI-176K-314	VEICHI-192K-314	VEICHI-208K-314	VEICHI-225K-314	VEICHI-241K-314
Nominal Voltage (V)	DC 512.0 V	DC 563.2 V	DC 614.4 V	DC 665.6 V	DC 716.8 V	DC 768.0V
Working Voltage (V)	DC 464.0V~576.0V	DC 510.4V~633.6V	DC 556.8V~691.2V	DC 603.2V~748.8V	DC 649.6V~806.4V	DC 696.0V~864.0V
Nominal Capacity（Ah）	314	314	314	314	314	314
Rated Energy (Wh)	160768	176844	192921	208998	225075	241152
Dimension (mm , L±2;W±2;H±5)	1075*850*1662	1075*850*1662	1075*850*1906	1075*850*1906	1075*850*2150	1075*850*2150
Weight (Kg)	1372	1493	1629	1750	1886	2006

Battery Module Qty In Series(Optional)	10	11	12	13	14	15
Recommended Charge/Discharge Current(A)	157					
Communication	CAN					
Ingress Protection	IP20					
Altitude	≤2000m					
Cycle Life	25±2℃, 0.5C/0.5C, EOL70%≥6000					
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, module temperature					
SOC	Intelligent algorithm					
Working Temperature	0~55℃ for charging, -20~55℃ for discharging					
Storage Temperature	0~35℃					

4.4 Preparation

4.4.1 Tools Required

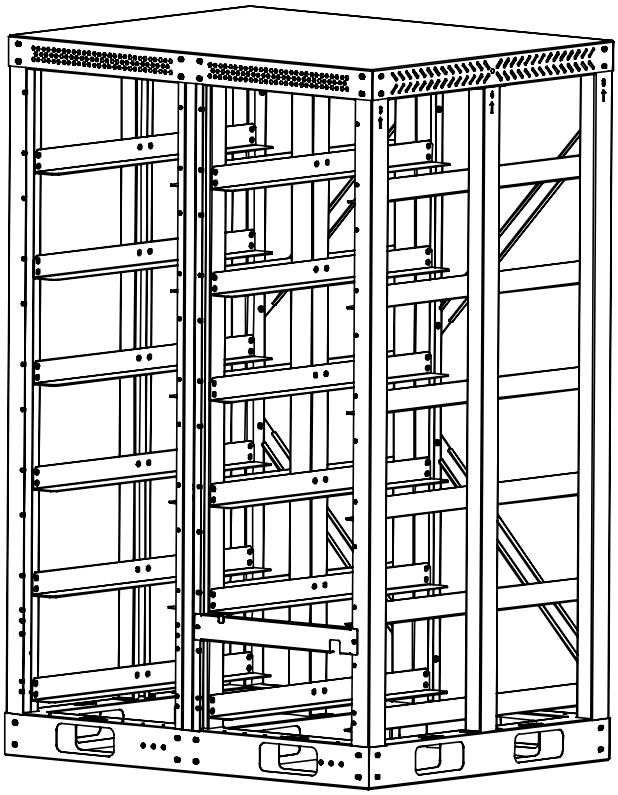
①PHILLIPS #2 cross-head screwdriver

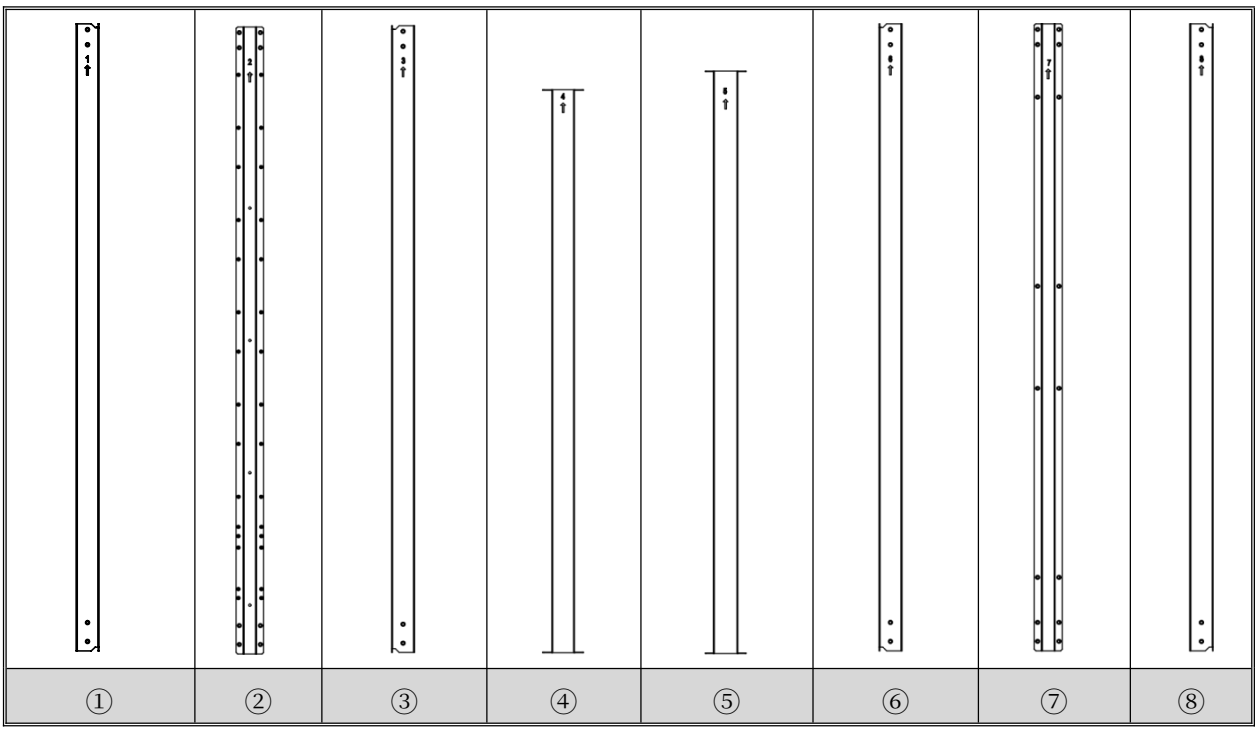
②10 mm hexagon socket

③24mm wrench

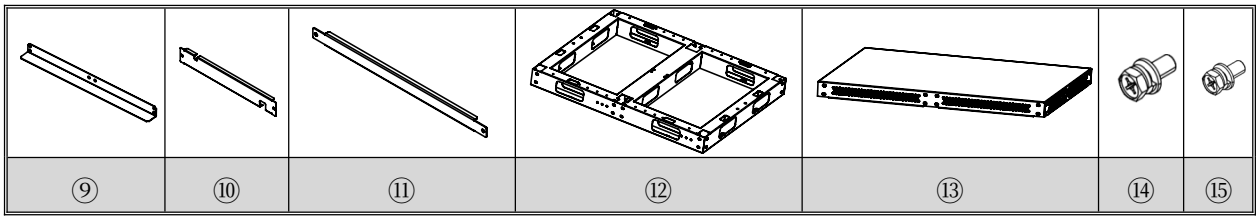
4.4.2 VC-5.5U-2X8 Description

Rack and Accessories





①	②	③	④	⑤	⑥	⑦	⑧



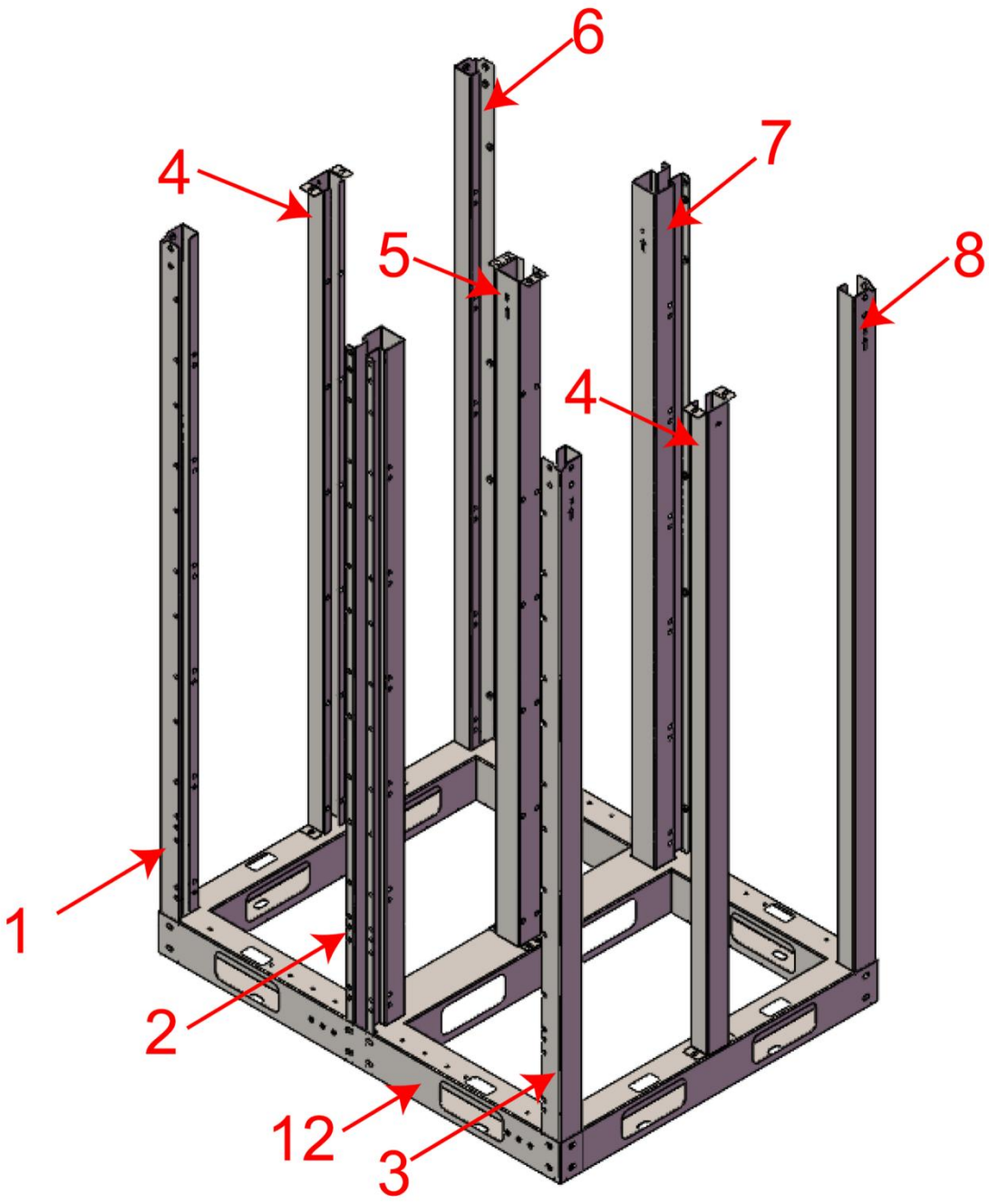
⑨	⑩	⑪	⑫	⑬	⑭	⑮

No.	Description	Quantity
①	Front left pillar	1
②	Front center pillar	1
③	Front right pillar	1
④	Middle left and right pillar	2
⑤	Middle center pillar	1
⑥	Rear left pillar	1
⑦	Rear center pillar	1
⑧	Rear right pillar	1
⑨	L layer board	24
⑩	Panel	1
⑪	Diagonal brace	4
⑫	Base	1
⑬	Upper cover	1
⑭	M8 triple combination screw	72+5
⑮	M6 triple combination screw	194+5

4.4.3 Installation of Rack

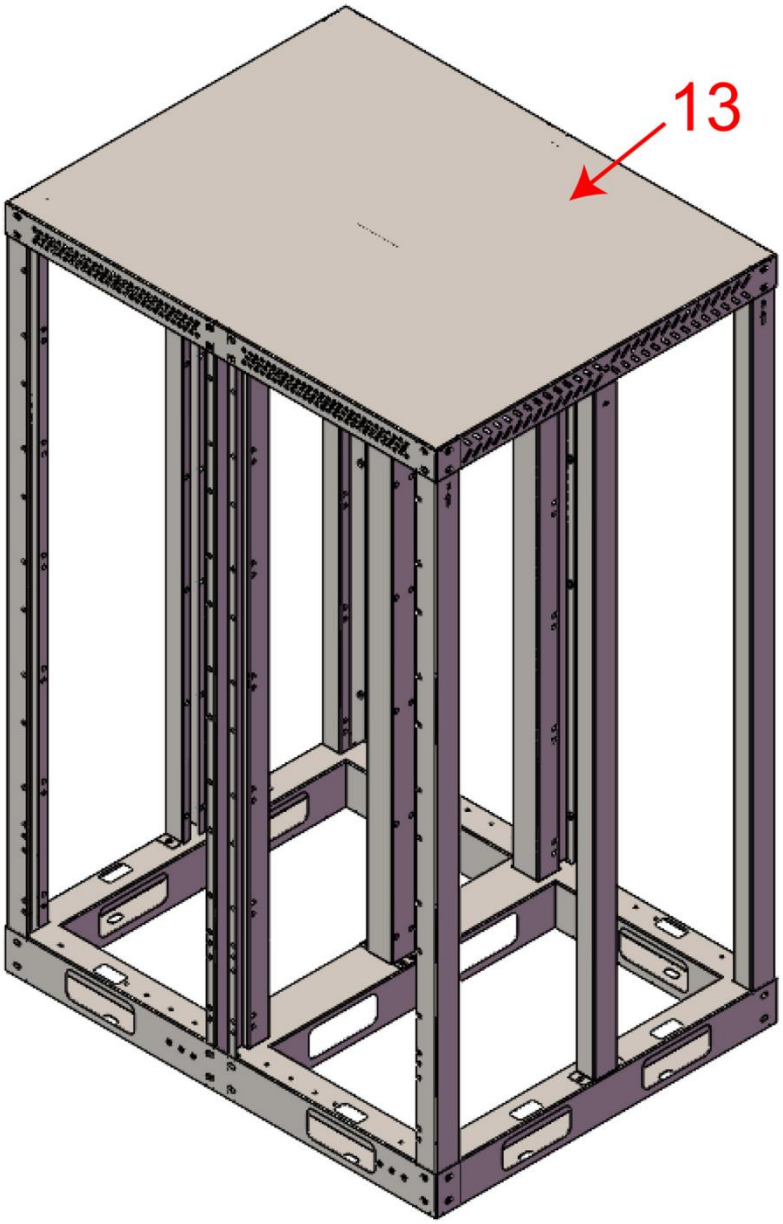
Step 1

Place No.12 base flat on the ground, and place the eight columns, including 1,2,3,4,5,6,7, and 8, into the grooves of the base. Use M8 bolts to secure each hole position in sequence.



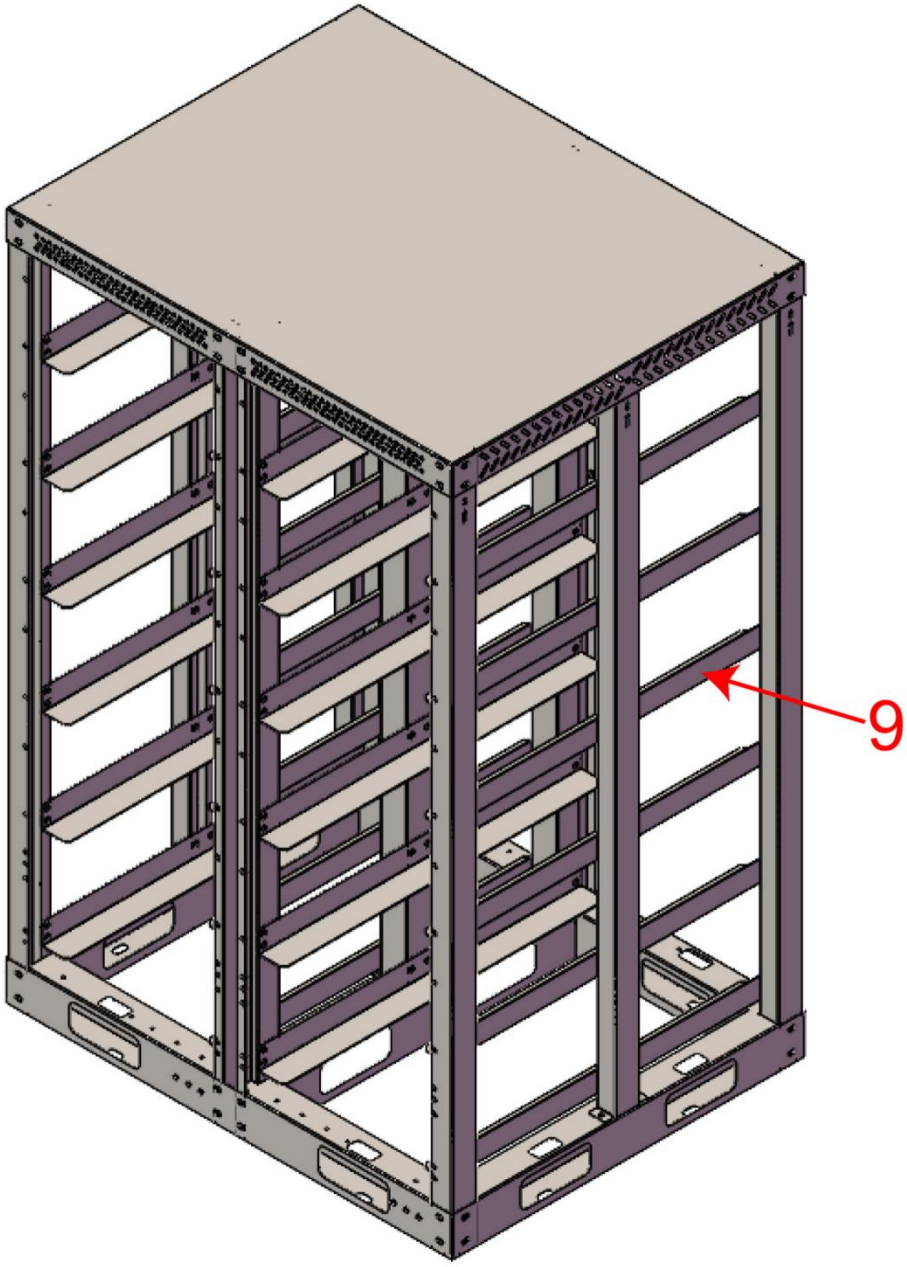
Step 2

After the installation is completed, install the No.13 upper cover onto all pillars, as shown in the figure below, and use M8 bolts to secure all screw positions in sequence.



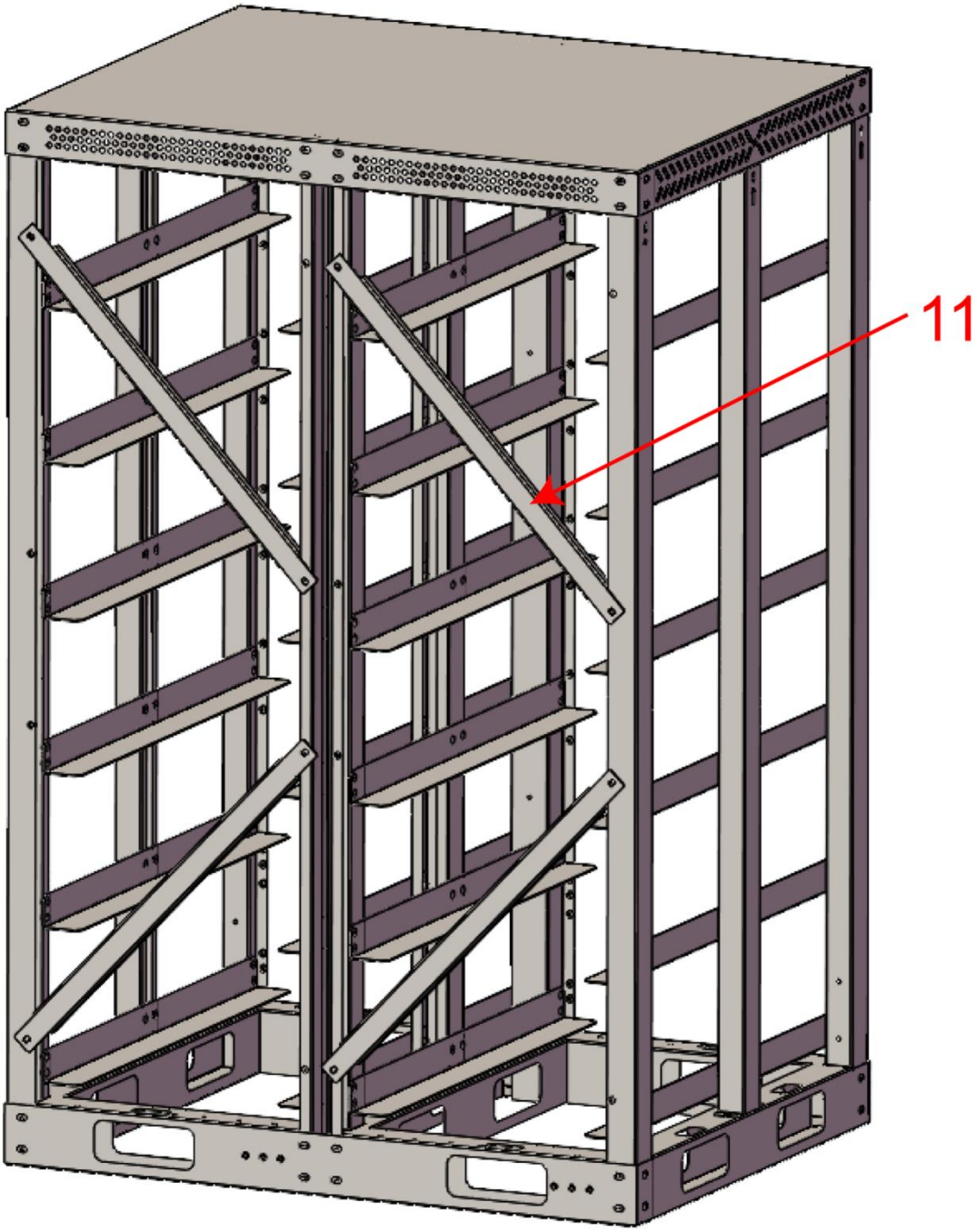
Step 3

After the installation of Step 2 is completed, fix a total of 24 layer boards and columns, as shown in the figure below, using M6 bolts to secure them.



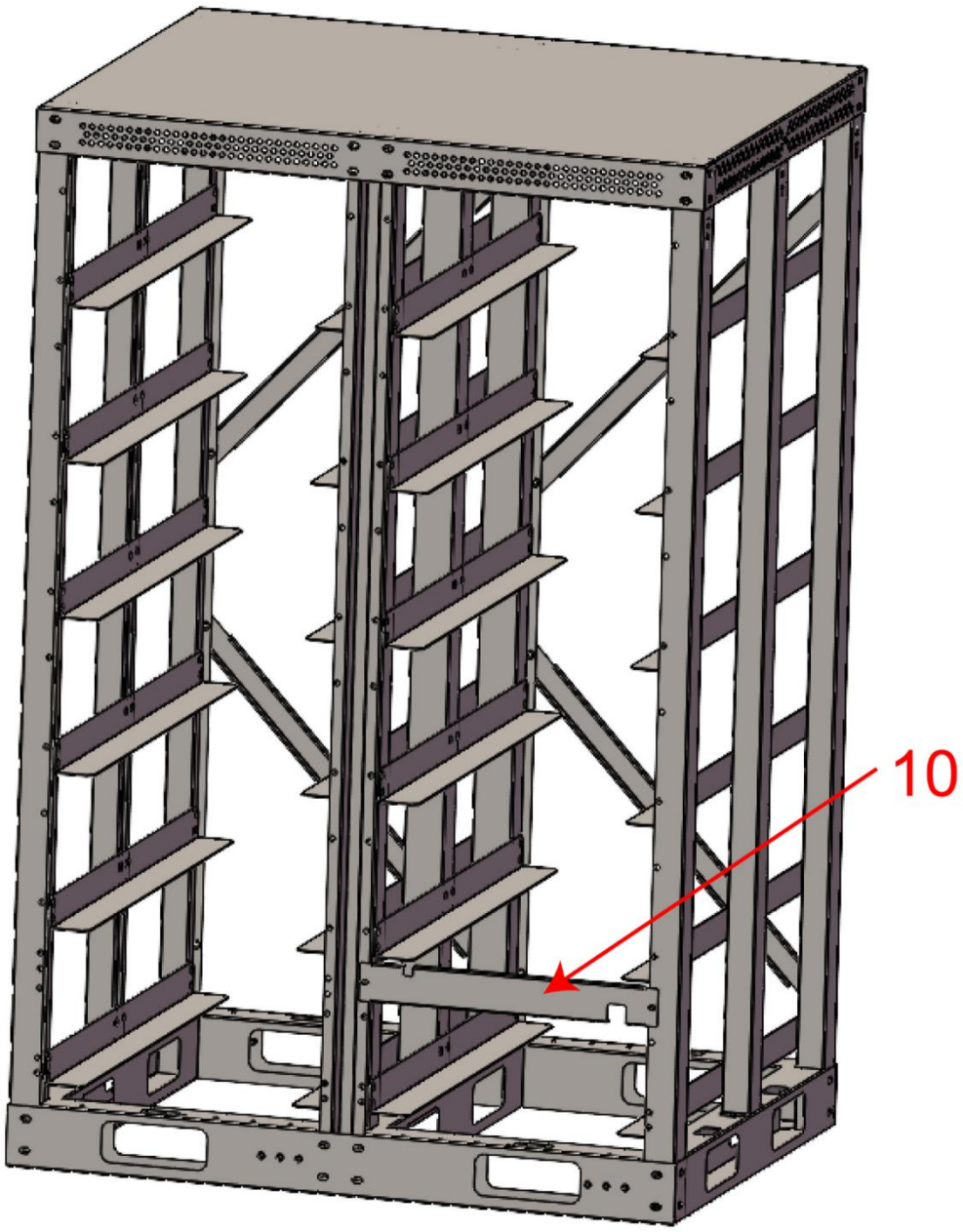
Step 4

After the installation is completed in step 3, fix the 11th diagonal brace to the column with M8 bolts, as shown in the following figure

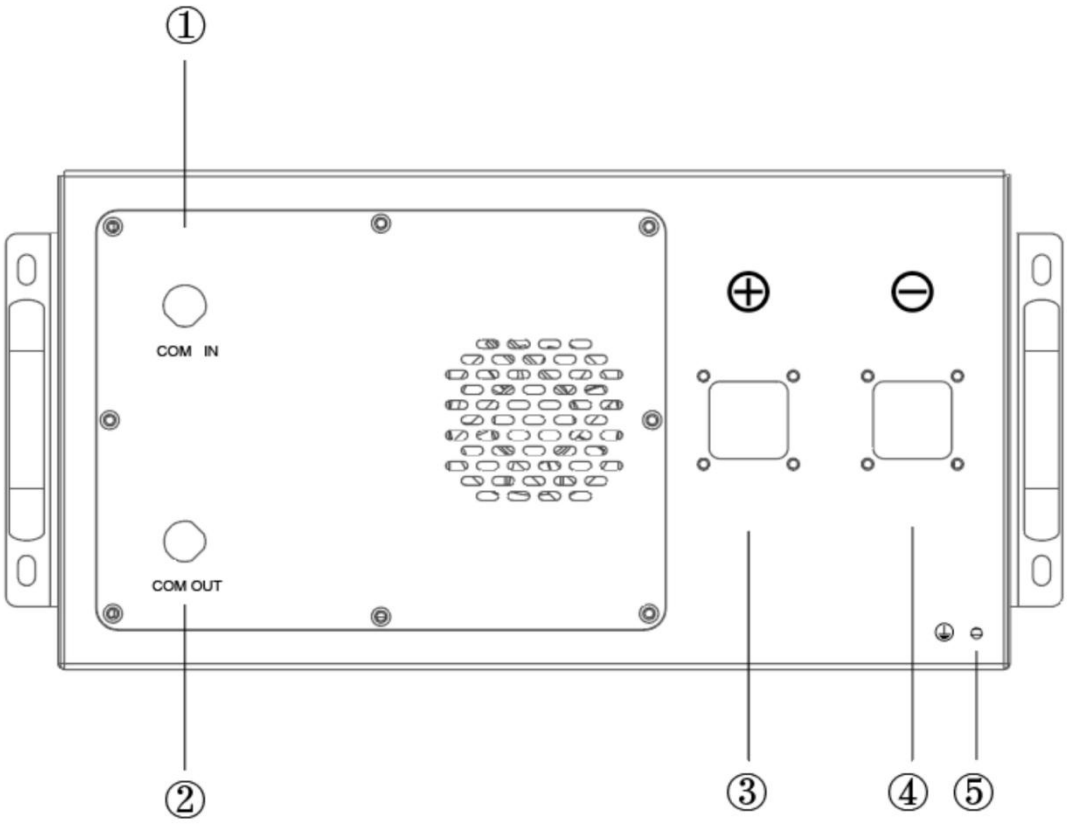


Step 5

Finally, fix the No.10 diagonal brace to the column with M6 bolts, as shown in the following figure.

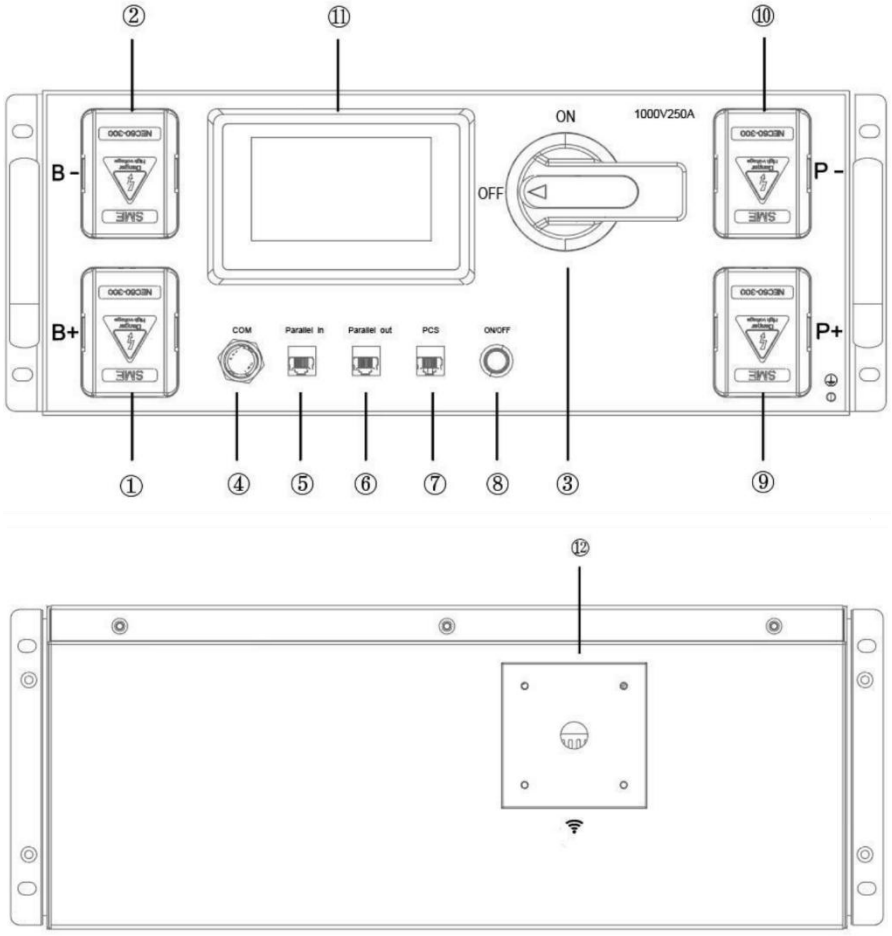


4.5 Description of Battery Module



No.	Name	Description	Position
①	COM	Connection position of battery module communication supply input or output.	Front
②	COM	Connection position of battery module communication and power supply input or output.	Front
③	B+	Battery module positive pole (orange)	Front
④	B-	Battery module negative pole (black)	Front
⑤	Earthing wire	Battery module grounding location	Front

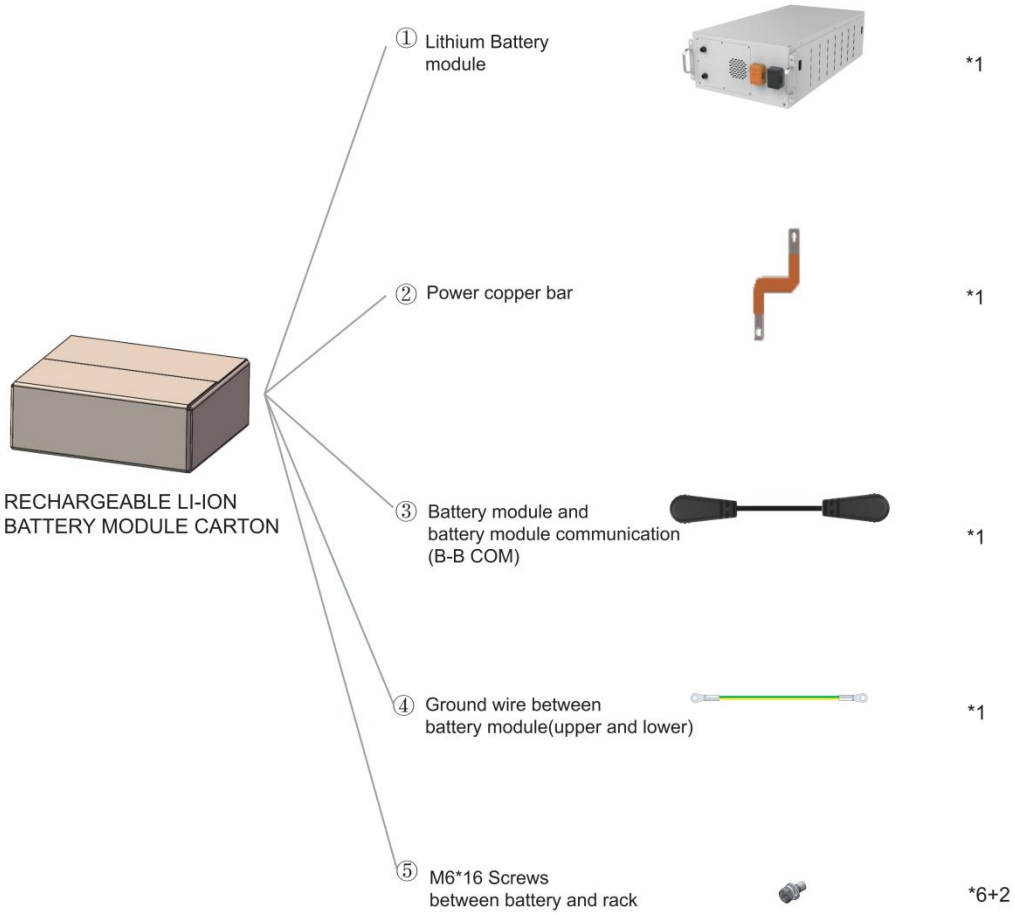
4.6 Description of High-voltage BMS Box



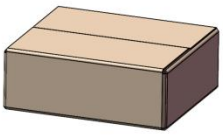
No.	Name	Description	Position
①	B+	High-voltage box module positive pole (orange)	Front
②	B-	High-voltage box module negative pole (black).	Front
③	Air switch	Used to manually control the connection between the battery rack and external devices.	Front
④	COM	Communication port between battery and high-voltage box	Front
⑤	Parallel in	Parallel communication input port	Front
⑥	Parallel out	Parallel communication output port	Front
⑦	PCS	Inverter communication port	Front
⑧	ON/OFF	BMS Start button and Green indicator light	Front
⑨	P+	Connect the high-voltage box to the positive pole of the inverter	Front
⑩	P-	Connect the high-voltage box to the negative pole of the inverter	Front
⑪	Human-machine interface(HMI)	Display some important battery information.	Front
⑫	Wi-Fi	High-voltage box Wi-Fi signal antenna	Front

4.7 Description of Battery Module in Rack

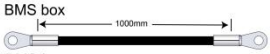
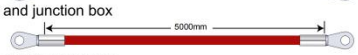
RECHARGEABLE LI-ION BATTERY MODULE



HIGH VOLTAGE BATTERY CLUSTER CONTROL BOX



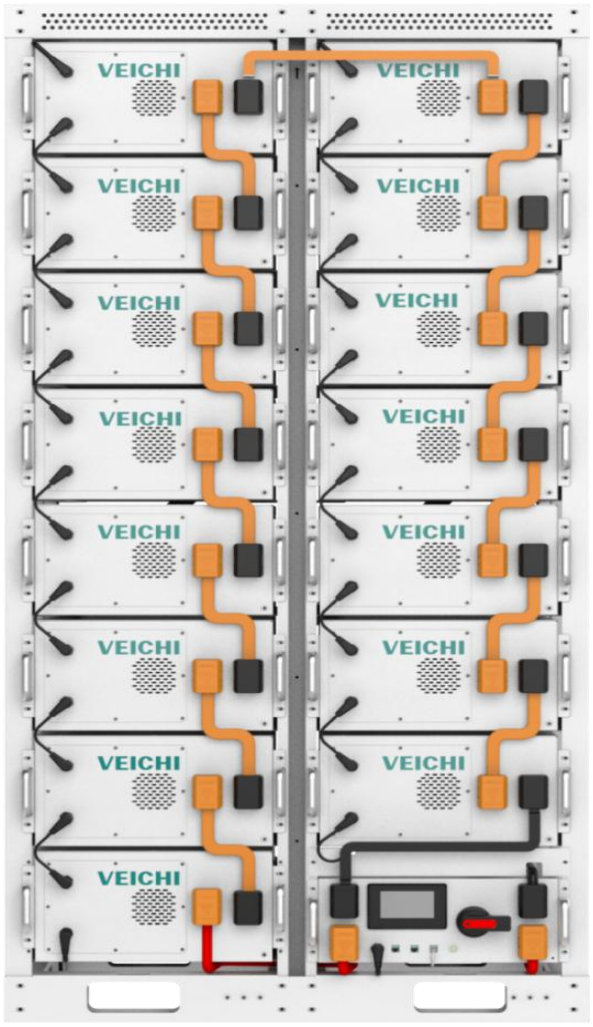
HIGH VOLTAGE BATTERY CLUSTER CONTROL BOX CARTON

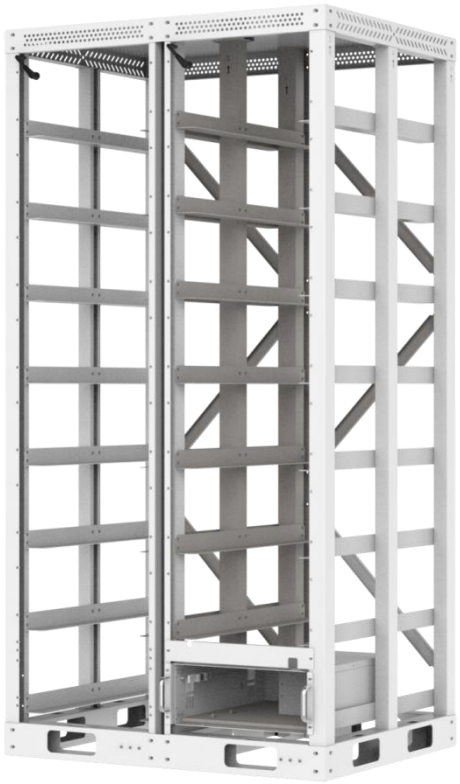
①	High Voltage BMS box 	*1
②	Communication between battery module and high-voltage box (B-HV COM) 	*1
③	Communication between battery racks and battery packs (B-B COM) 	
④	Positive power cable between battery module and BMS box 	*1
⑤	Negative power cable between battery module and BMS box 	*1
⑥	Between battery module and battery module 	*1
⑦	Negative power cord between the junction box and the negative pole of the inverter 	*2
⑧	Positive power cord between the junction box and the positive pole of the inverter 	*2
⑨	Negative power cord between high voltage P- and junction box 	*1
⑩	Positive power cord between high voltage P+ and junction box 	*1
⑪	Communication cable between BMS box and inverter 	*1
⑫	Ground wire between battery modules(left and right) 	*1
⑬	Ground wire between high voltage box and grounding copper busbar 	*1
⑭	Positive terminal box 	*1
⑮	Negative terminal box 	*1
⑯	M5 Screws between BMS box and rack 	*4+2

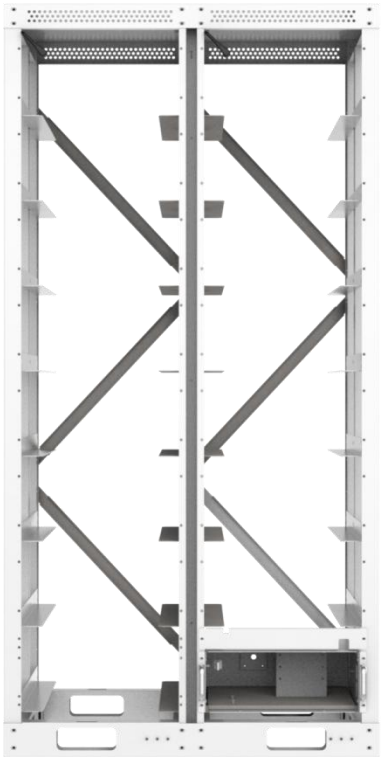
4.8 Installation of the Battery Module to the Rack

- Insufficient or improper grounding may cause electric shock. Device malfunctions, and insufficient or no grounding may cause device damage and life-threatening electric shocks.
- Before installing the battery, please turn the manual switch of the high-voltage control box to the off position.
- Remember that this battery is heavy! Please be careful when lifting it out of the package.
- Note the allowable installation modes:

1. Insert the first battery module into the bottom battery module holder; Then, from the bottom to the top, install in the same way until all battery modules are installed. At the position shown in the figure, insert the high-voltage BMS box into the opposite position.
2. After the battery module and control box are inserted into the rack, use M5*12 hexagon head combination screws to secure all the mounting lugs of the battery module and control box onto the side beam in sequence.
3. Connect the copper cables and communication harnesses in sequence, and secure them properly.



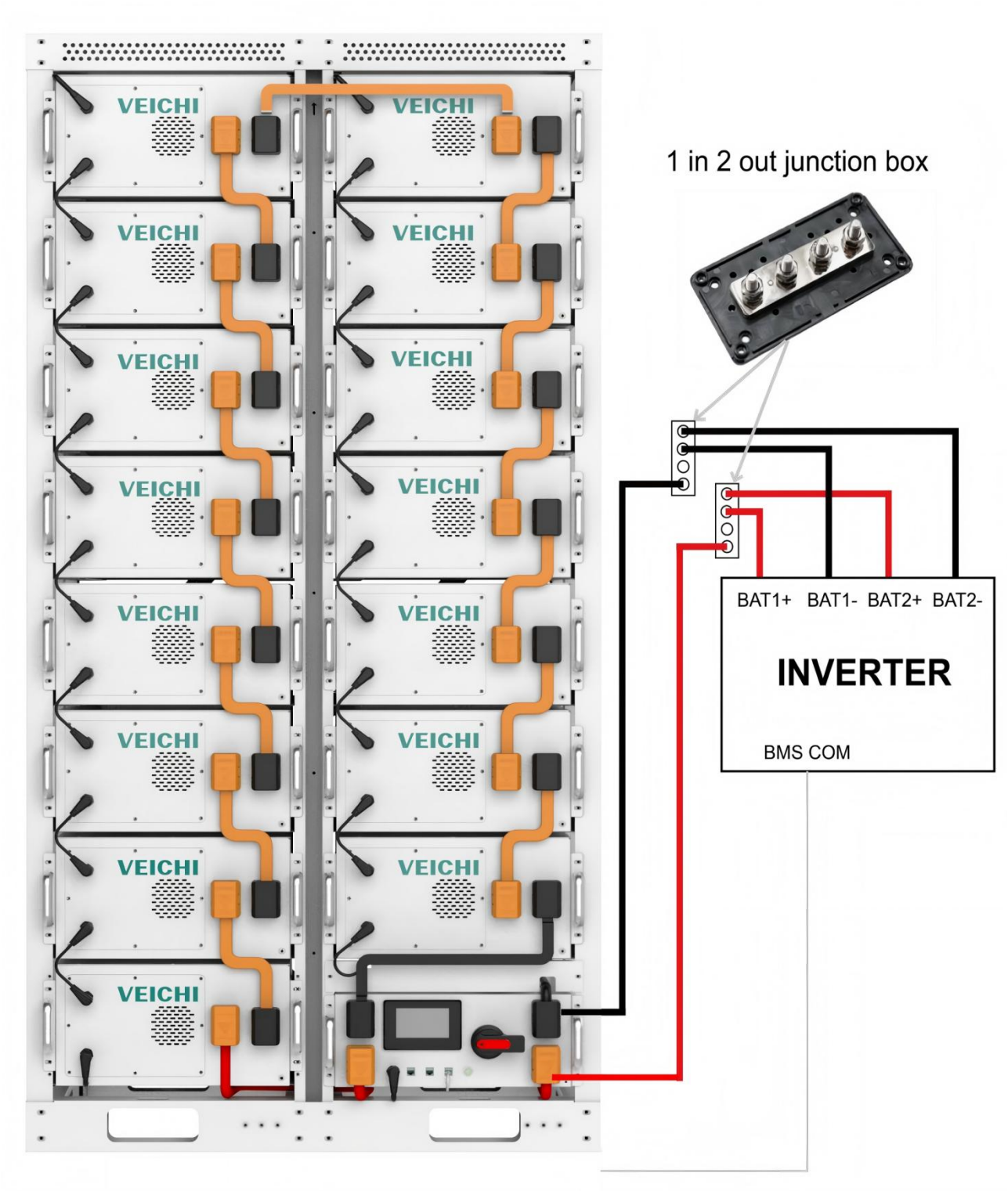





VEICHI


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4.9 Battery Cluster Connected to Inverter



4.10 System Startup and Shutdown

4.10.1 Startup Procedure

①After connecting the battery cable, press the BMS Start button and wait for the screen to light up.

②When the battery pack makes two clicks and the relay status on the display is CLOSED, turn the circuit breaker ON.

③The startup is complete.

4.10.2 Shutdown Procedure

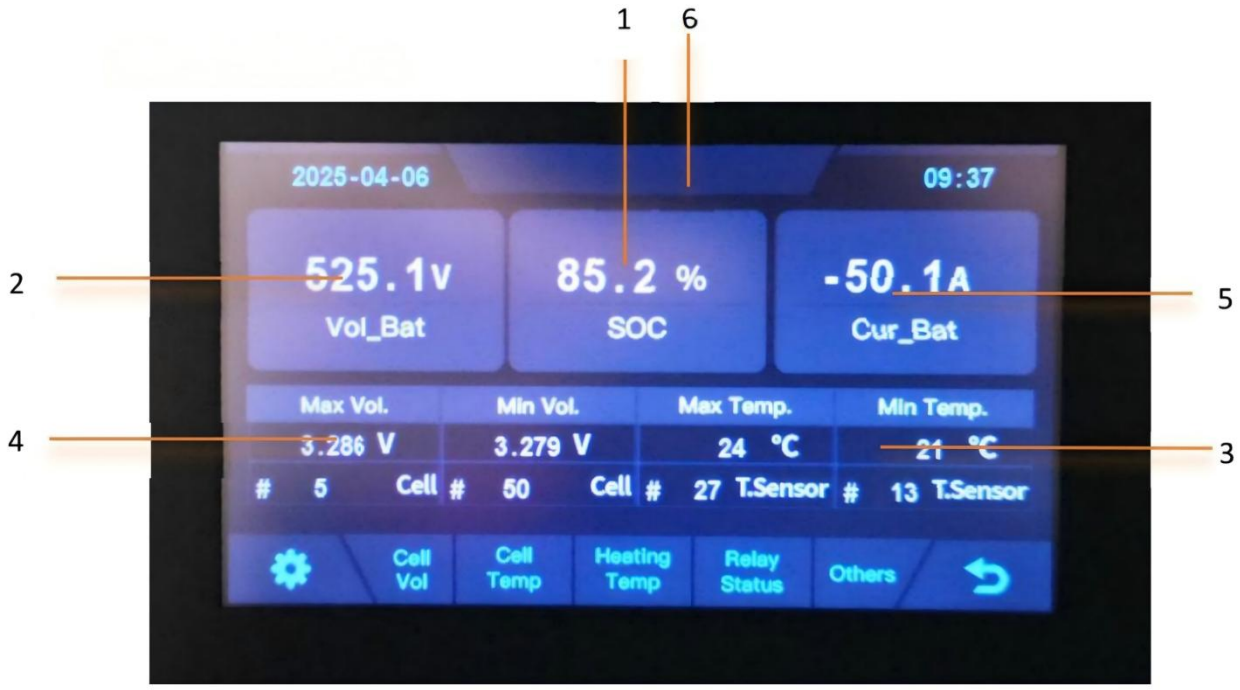
①Stop load operation。

②Press the DC circuit breaker on the high-voltage control box and set the switch from "ON" to "OFF".

③Press the Start button again and wait for the screen to turn off.

5 VEICHI's User Interface

5.1 Main Interface



No.	Description	Function
1	SOC	Display real-time SOC value of energy storage system
2	Voltage	Display real-time voltage
3	Temperature	Display the maximum and minimum battery temperatures
4	Voltage	Display real-time maximum and minimum cell voltages
5	Current	Display real-time battery current
6	System Status	Display battery fault information

5.2 Cell Voltage



5.3 Cell Temperature

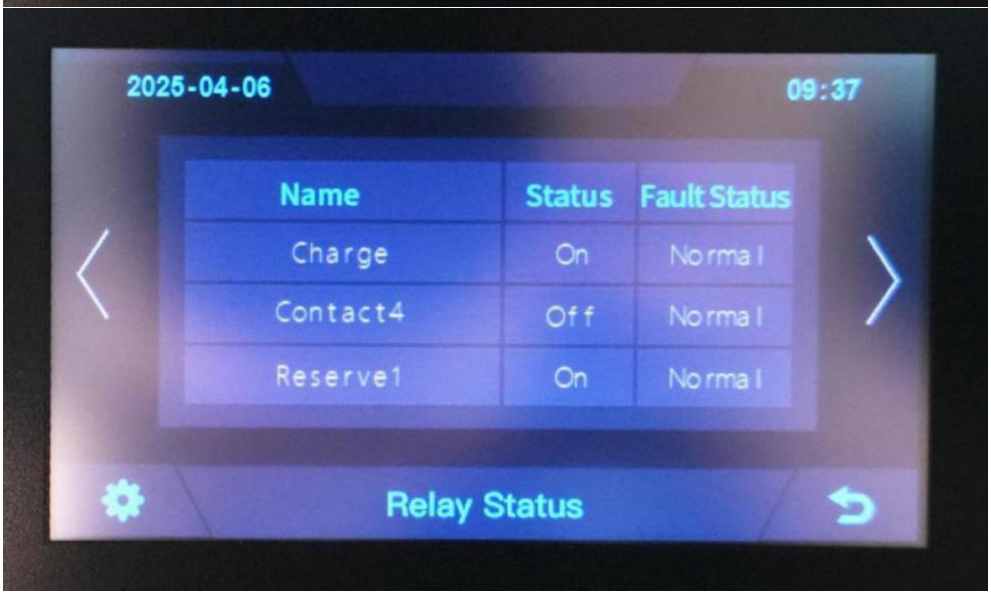


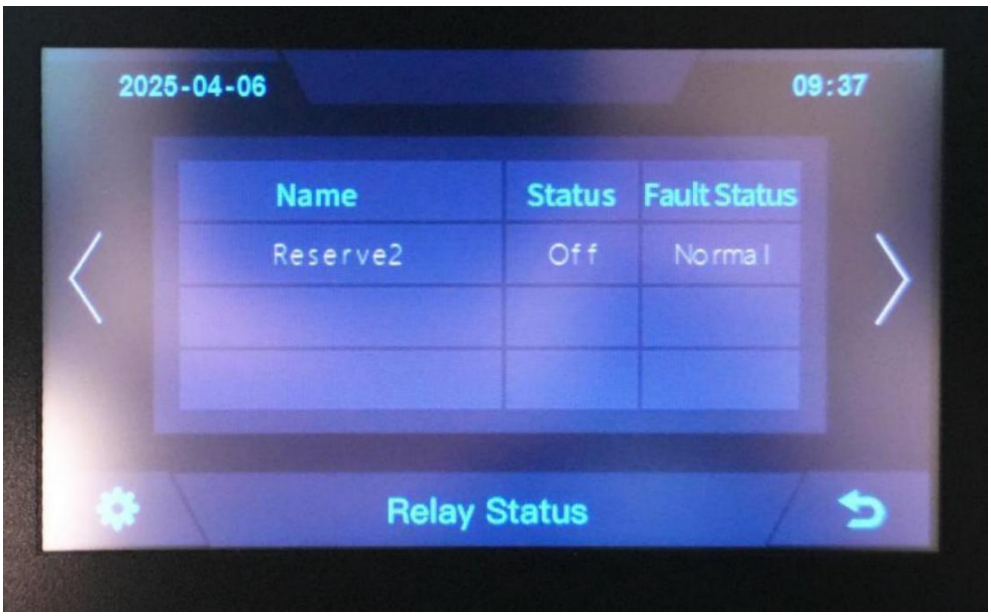
5.4 Heating Temperature



5.5 Relay Status






2025-04-06
09:37
Name
Status
Fault Status
Reserve2
Off
Normal
Relay Status

5.6 Other


2025-04-06
09:38
Heating Inf
InslResist Inf
Diagnostic Inf
CumuTimeInf
Others

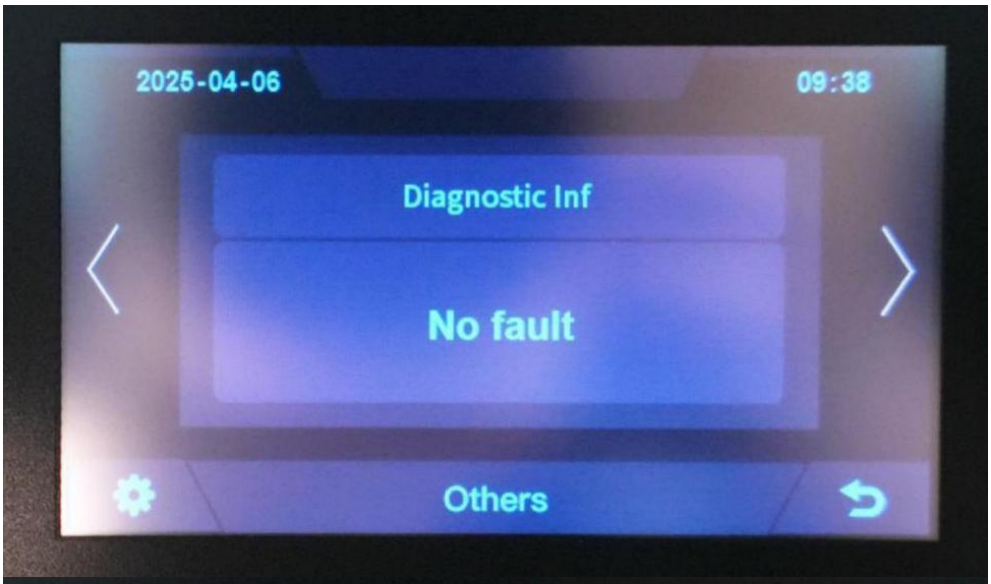
5.6.1 Heating Information

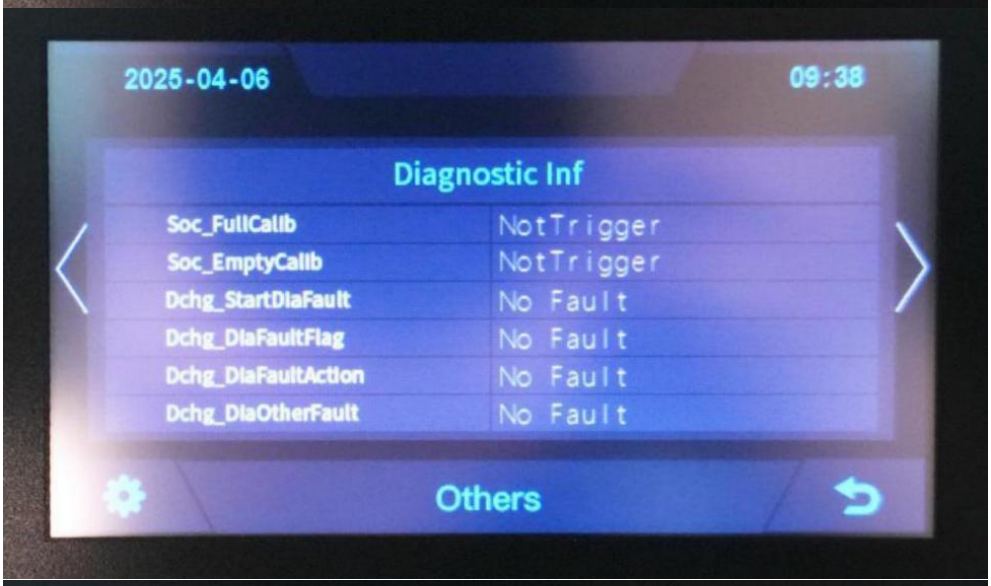


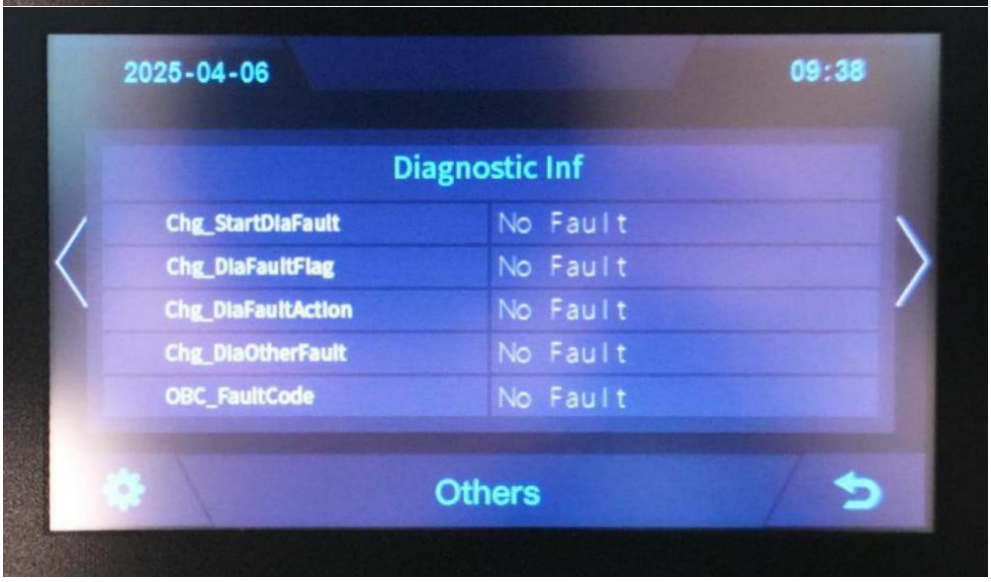
5.6.2 Insulation Resistance



5.6.3 Diagnostic Information





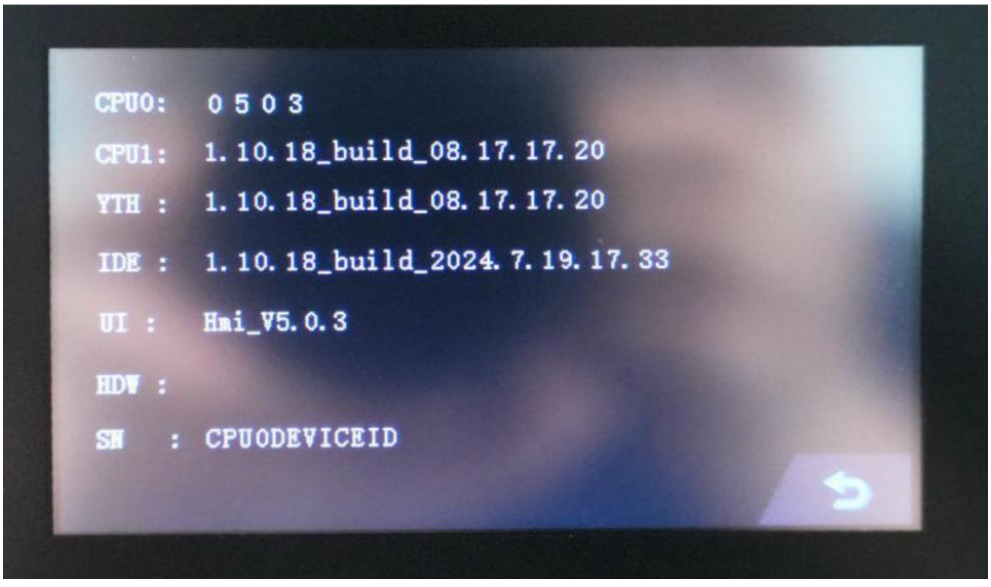


5.6.4 Cumulative Time Information



5.7 Setup



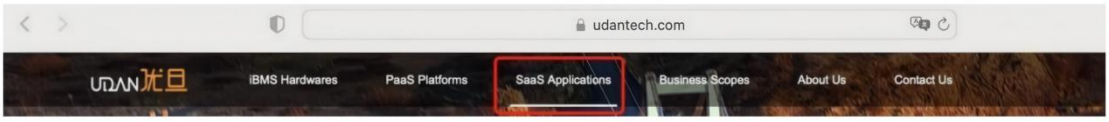


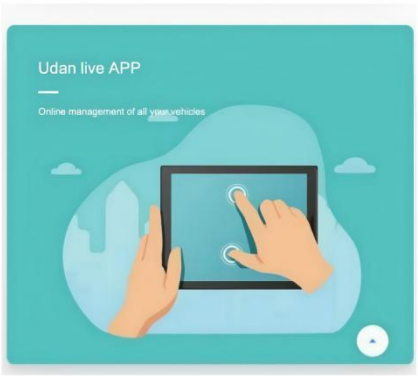
6 Udan Energy Storage APP

6.1 APP Download

6.1.1 Android Version

Enter the official website of Udan Technology https://lwww.udantech.com/#/, click on the "SAAS Application" column in the top navigation bar, pull down to the mobile app module, and you can see the mobile WeChat Mini Program and APP download.



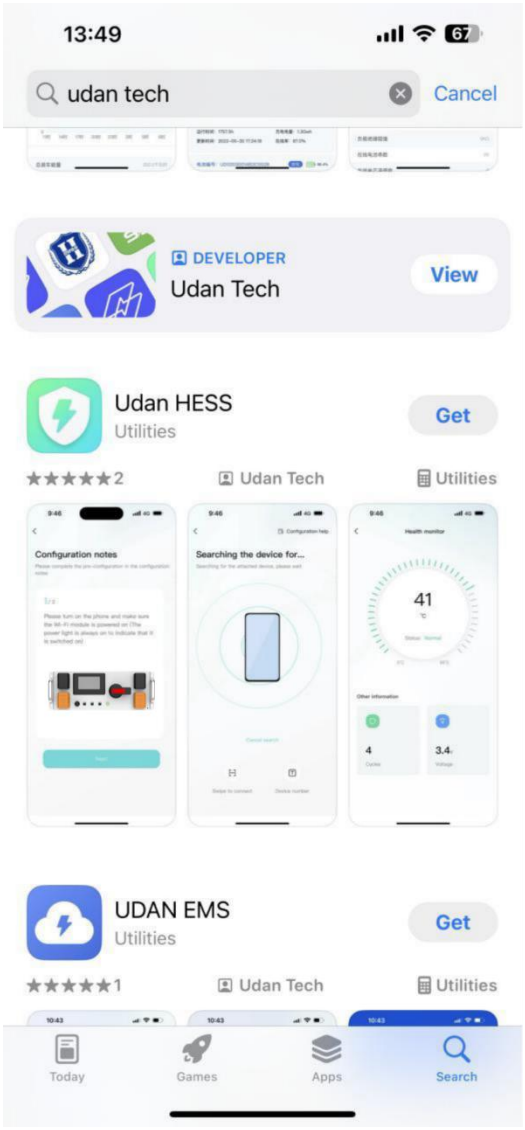


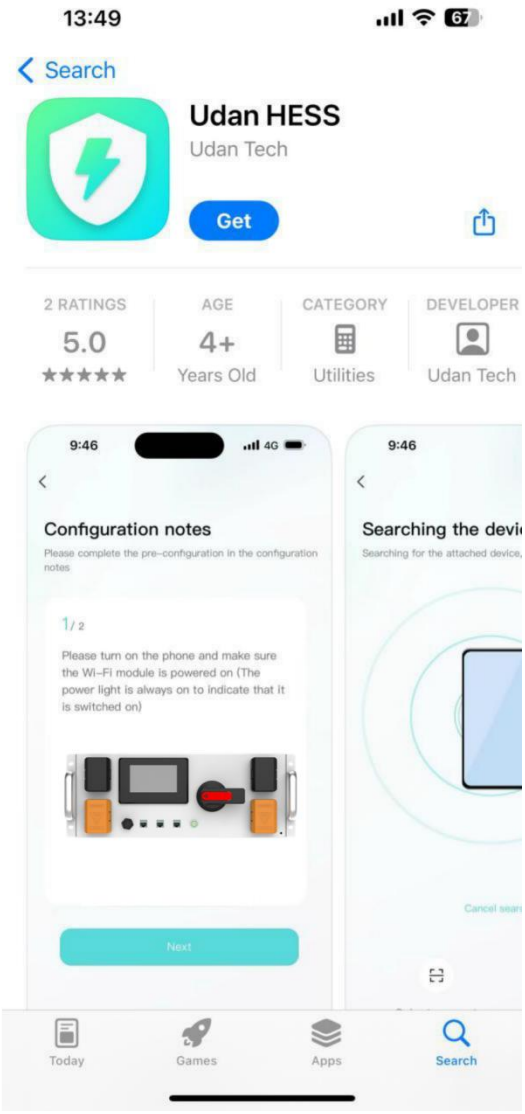
Wechat mini program scan code experience

APP download

6.1.2 iOS Version

Enter the Apple APP Store , search for "Udan Energy Storage" , and you can download and install it.

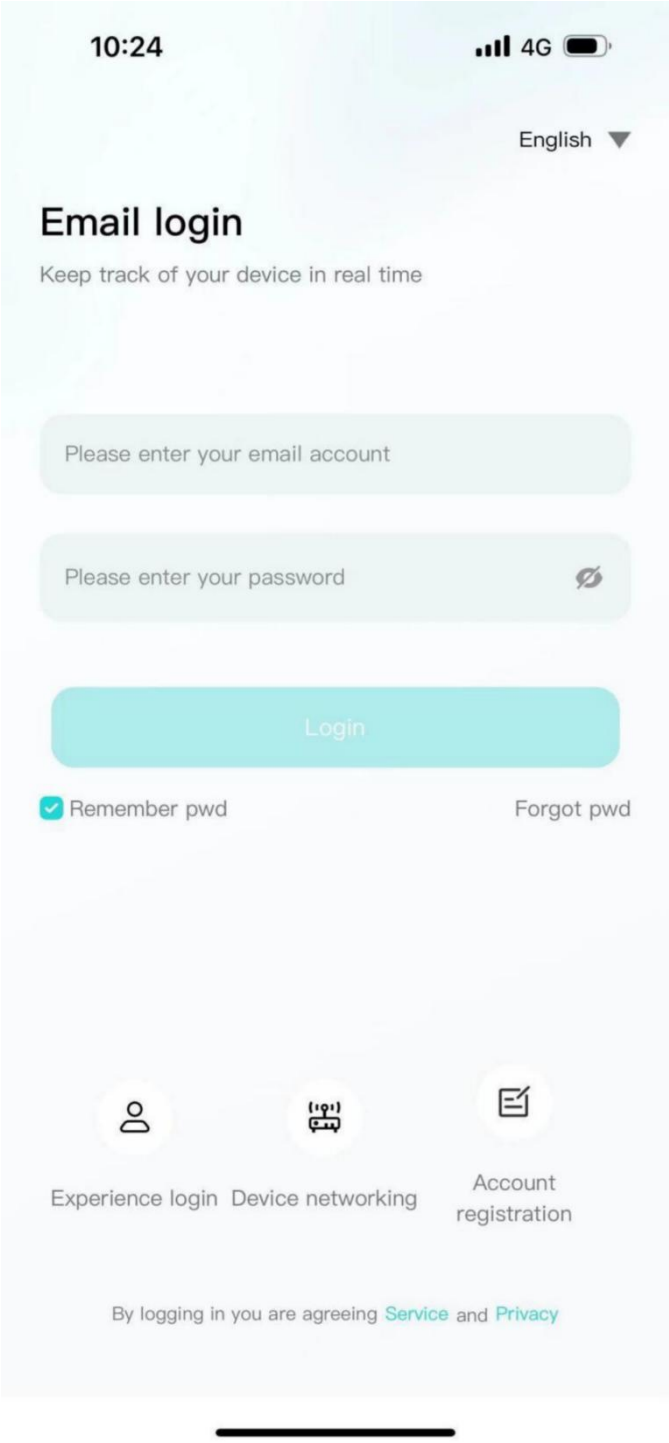




6.2 Log In and Register

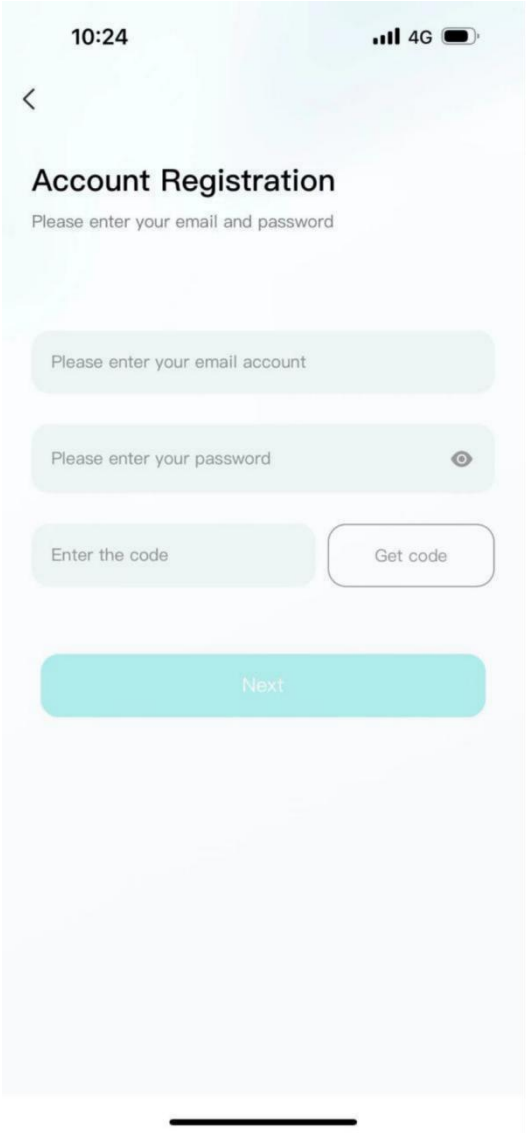
6.2.1 Log In

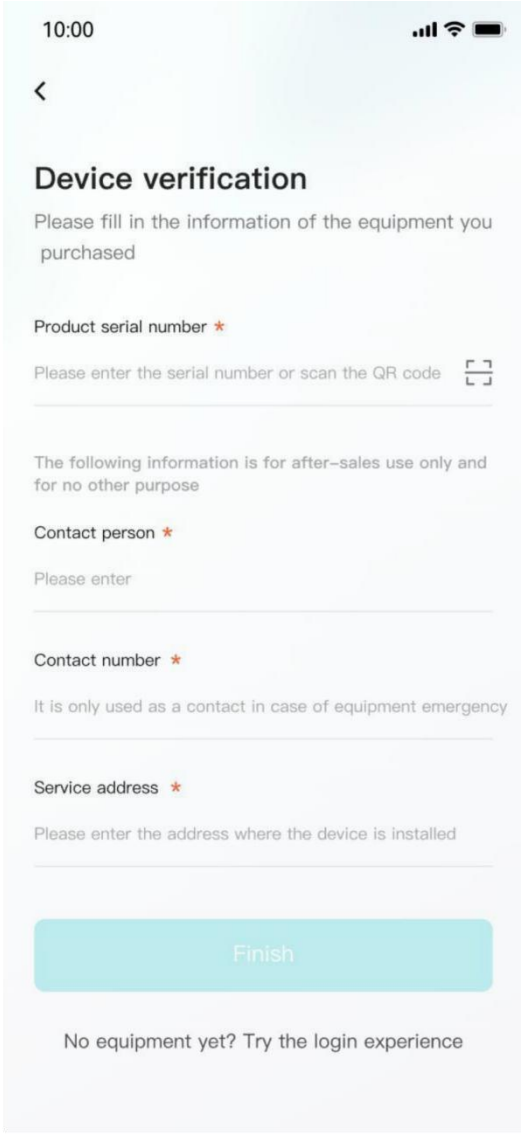
- After opening the APP, enter the login interface to log in with your account.
- Currently, the APP supports logging in through an email account.



6.2.2 Register

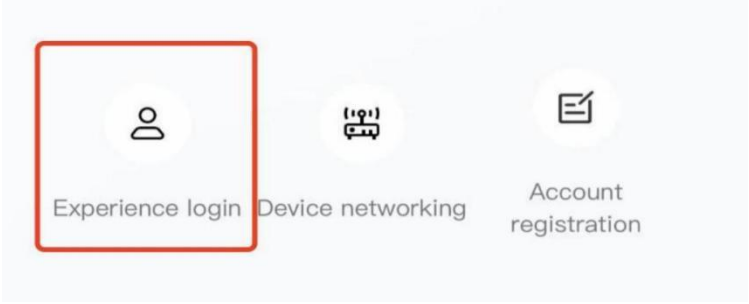
- At the bottom of the login page, click the "Account Registration" button to enter the registration process.
- Currently, you can register with an email account. After registration, you need to go through the device verification process and enter the device SN code or device QR code for identification.





6.2.3 Experience Login

- At the bottom of the login page, click the "Experience Login" button to use the app functions as a guest without registration.



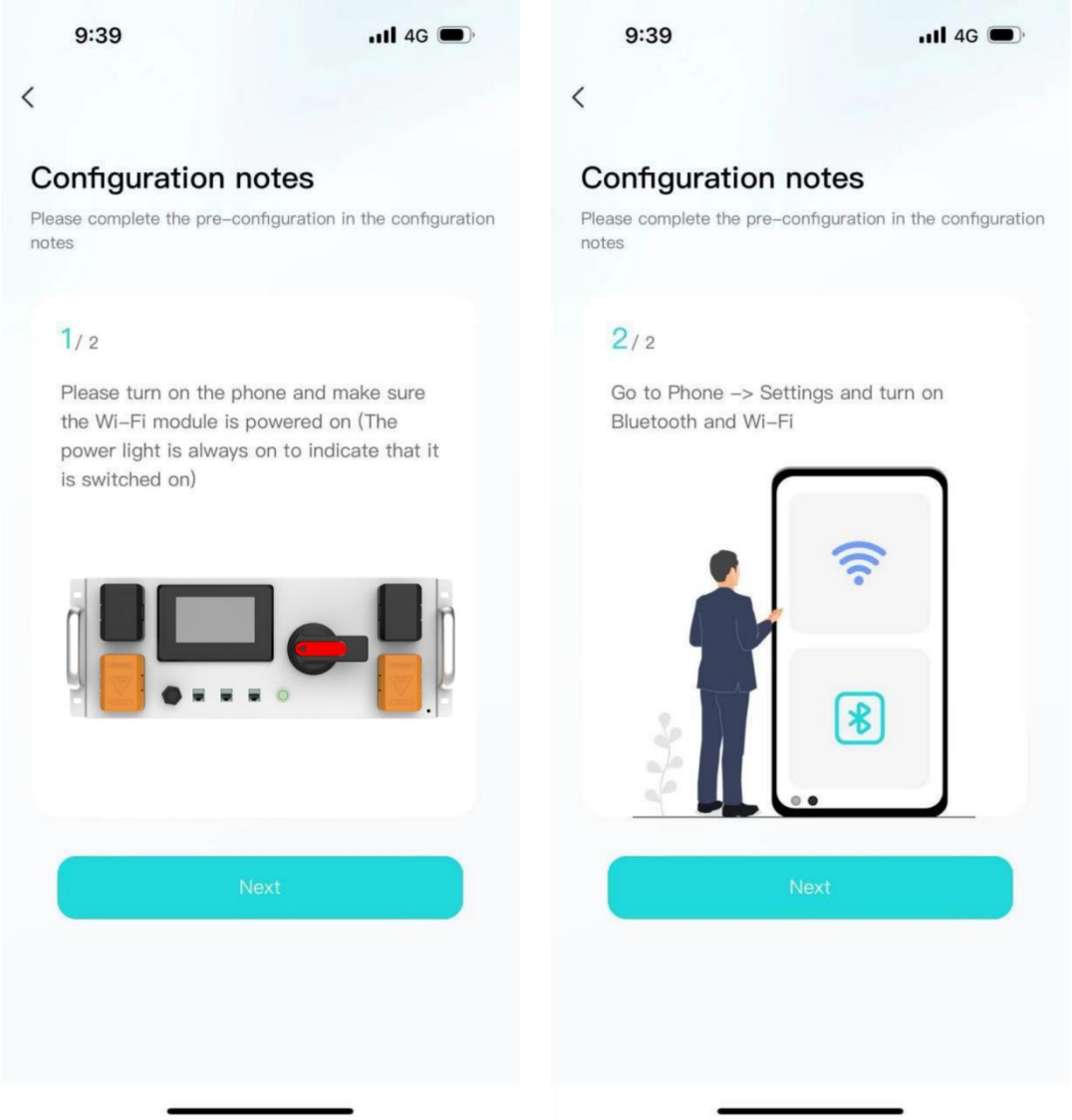
6.3 Device Network Configuration

6.3.1 Overview

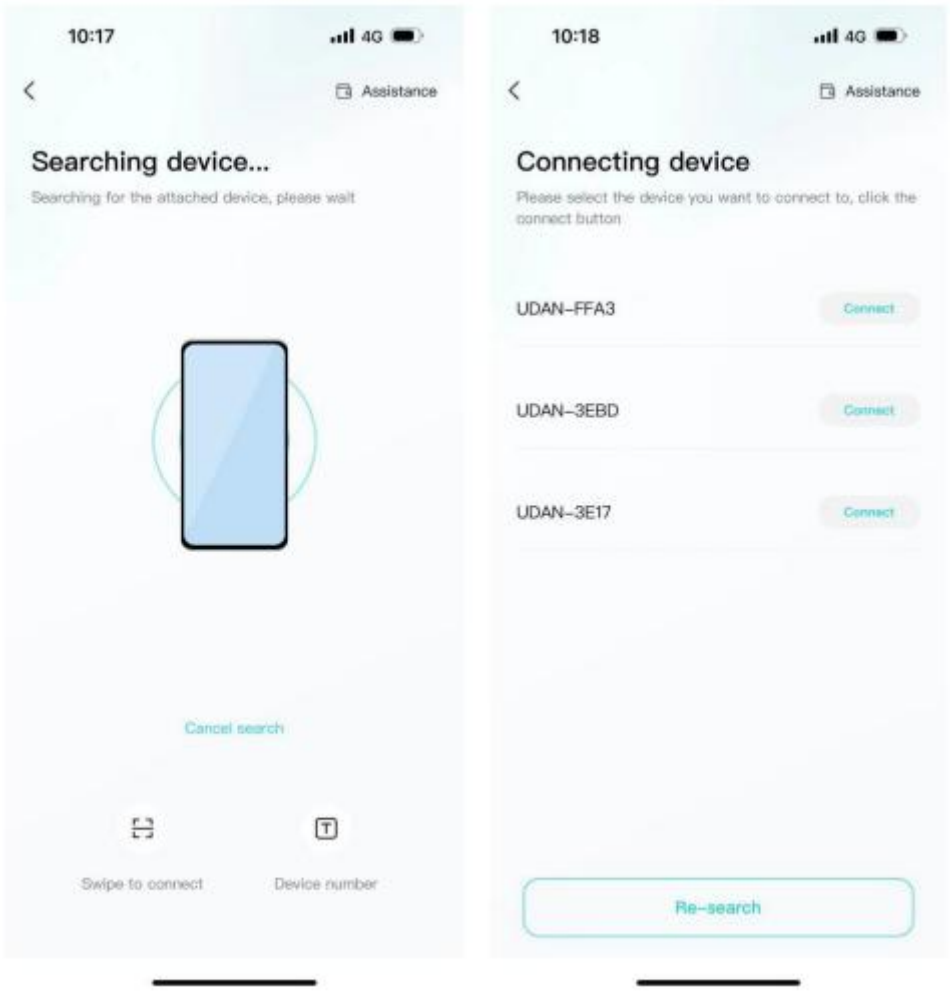
Device network configuration refers to connecting devices to the cloud platform to help users obtain real-time device data information.

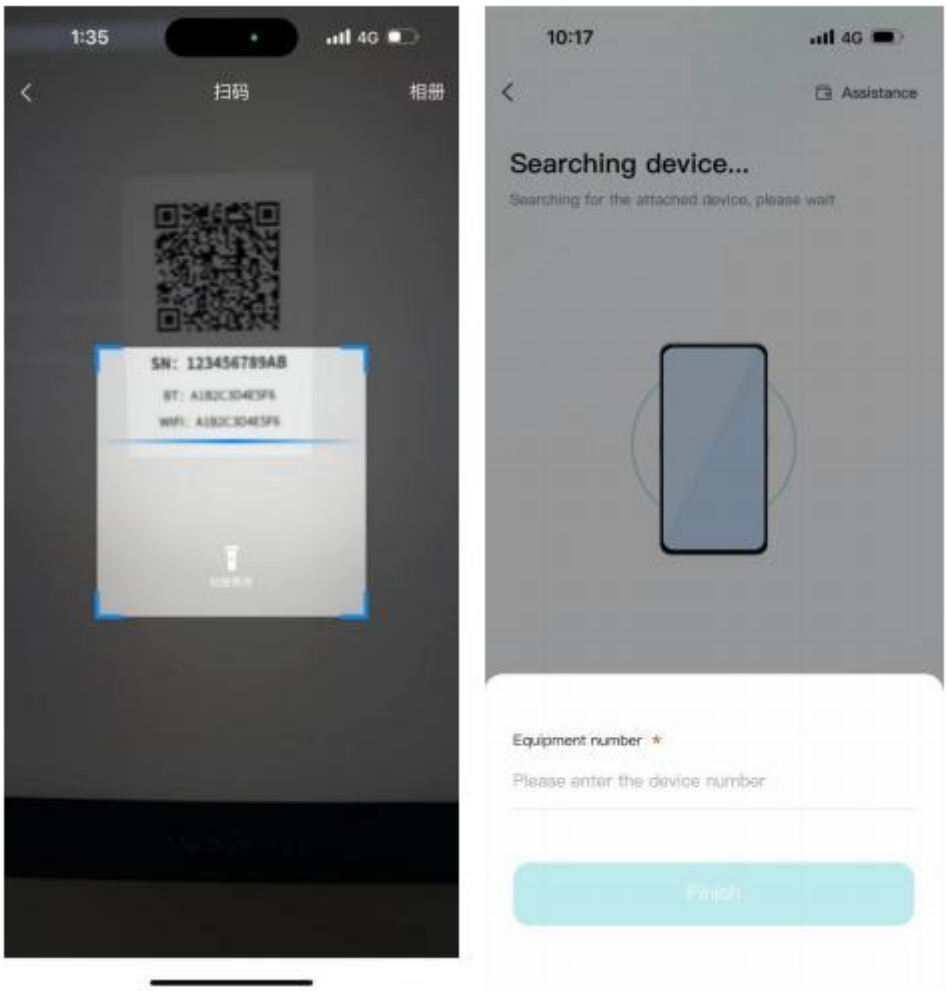
6.3.2 Configuration Process

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



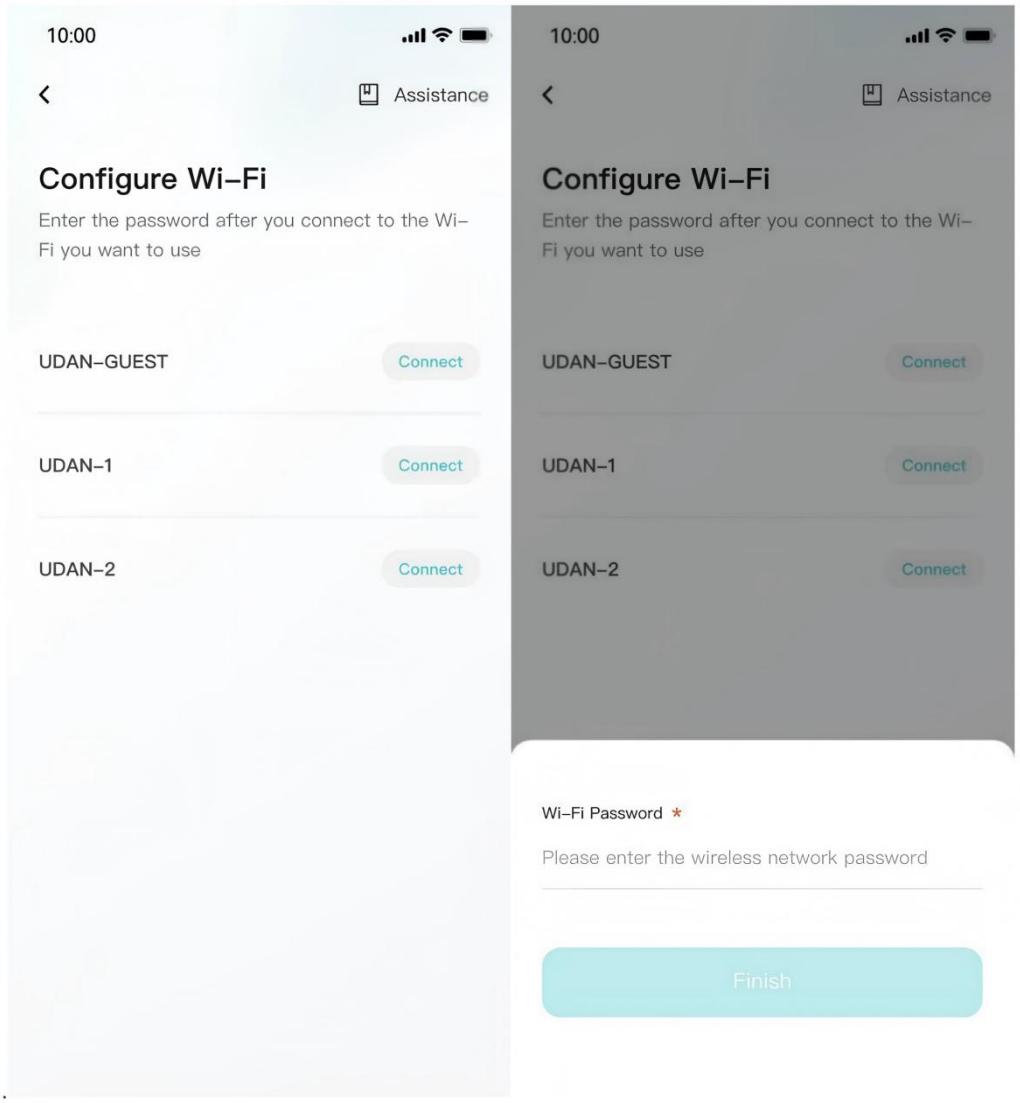
2. Connect devices: The APP currently supports Bluetooth search, device scanning, and manual input of SN code.

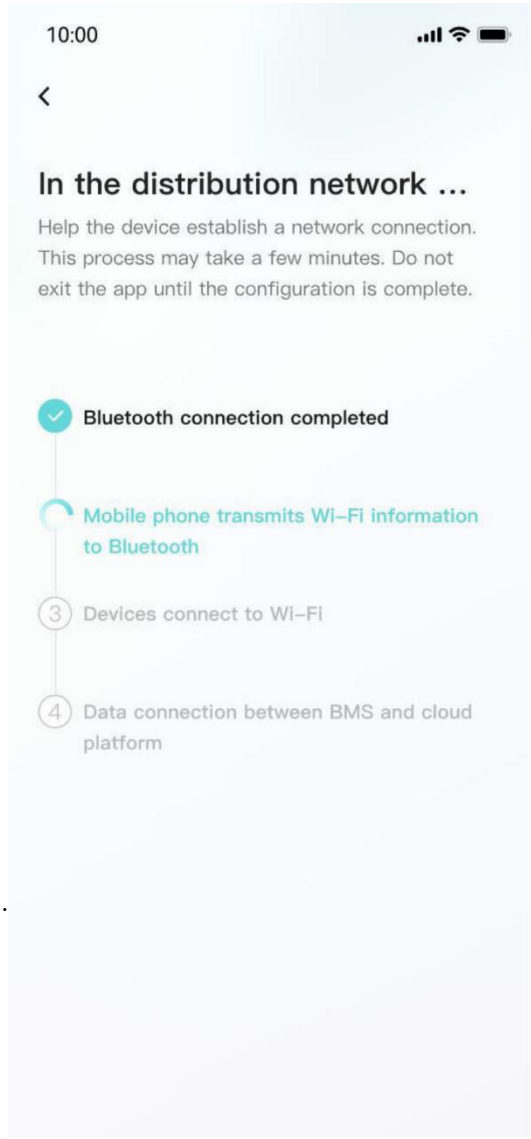


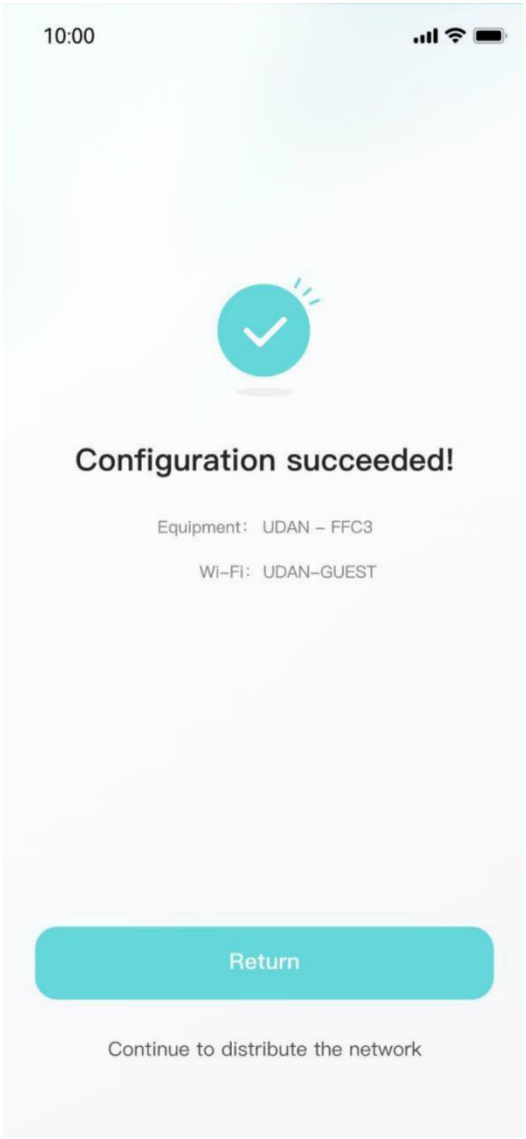

1:35
4G
扫码
相册
SN: 123456789AB
10:17
4G
Assistance
Searching device...
Searching for the attached device, please wait
Equipment number *
Please enter the device number
Finish

3. Connect to Wi-Fi: After the device is connected, enter the Wi-Fi connection process.

- Select the Wi-Fi you want to use and click the "connect" button. Enter the Wi-Fi password and click the "Finish" button to complete the network configuration.



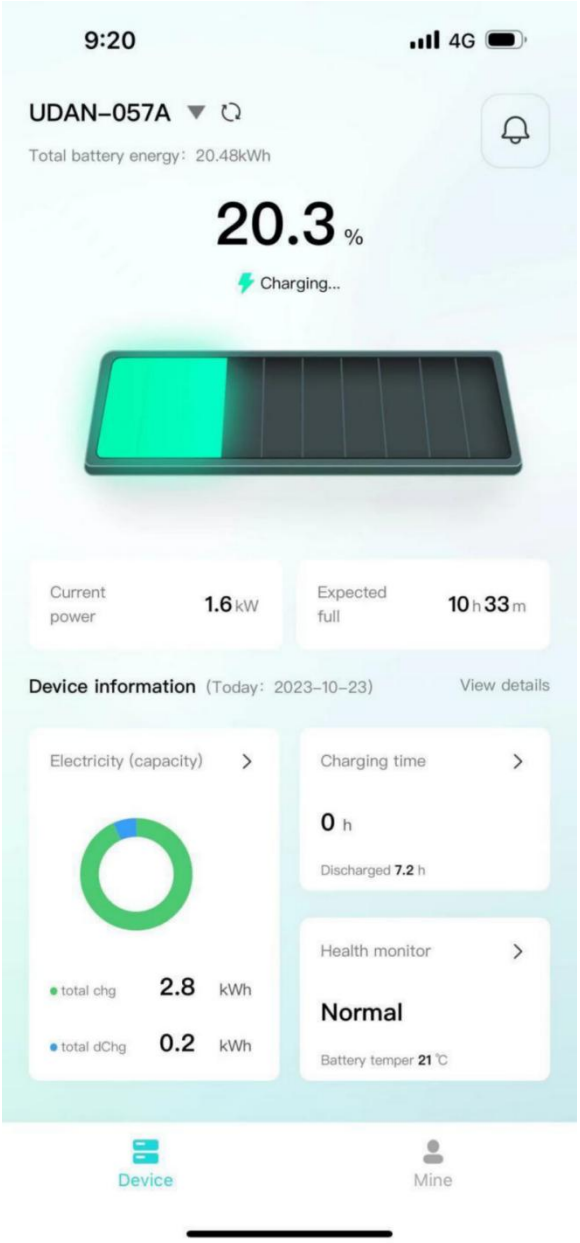

10:00
In the distribution network ...
Help the device establish a network connection. This process may take a few minutes. Do not exit the app until the configuration is complete.
Bluetooth connection completed
Mobile phone transmits Wi-Fi information to Bluetooth
3
Devices connect to Wi-Fi
4
Data connection between BMS and cloud platform


10:00
Configuration succeeded!
Equipment: UDAN – FFC3
Wi-Fi: UDAN-GUEST
Return
Continue to distribute the network

6.4 APP Page

6.4.1 Device

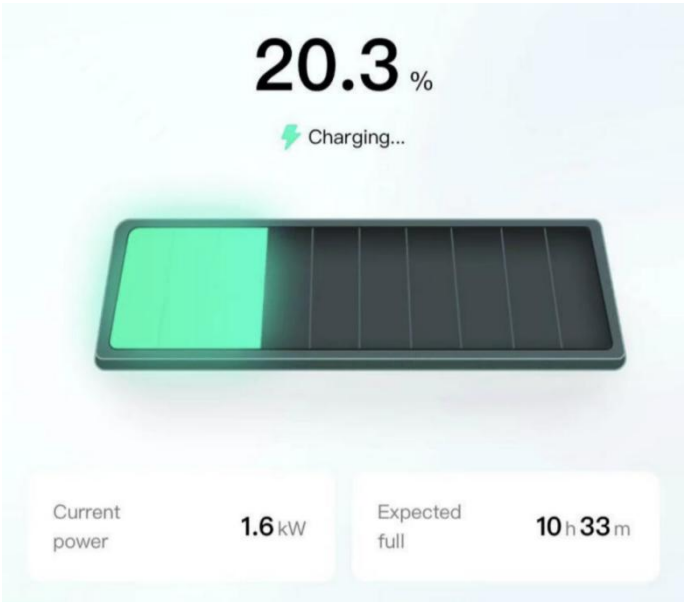
The device homepage is used to display information about the currently managed devices.



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



The middle area displays the current battery charging and discharging status, battery percentage, current power, and estimated full-charge time.



The bottom area displays battery status, 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.

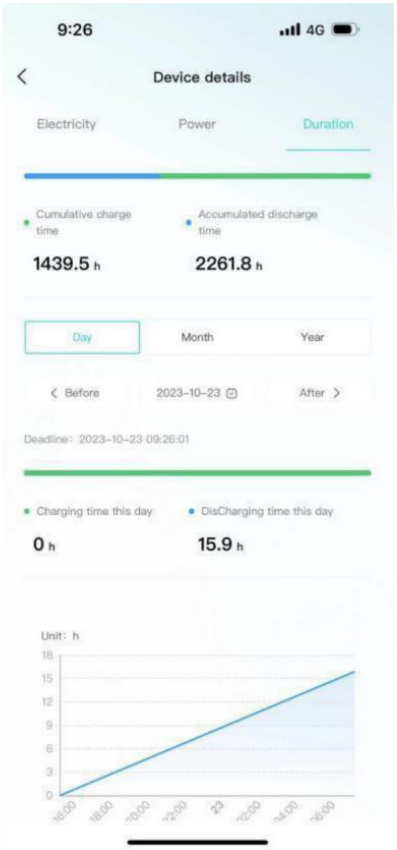


6.4.2 Device Details

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

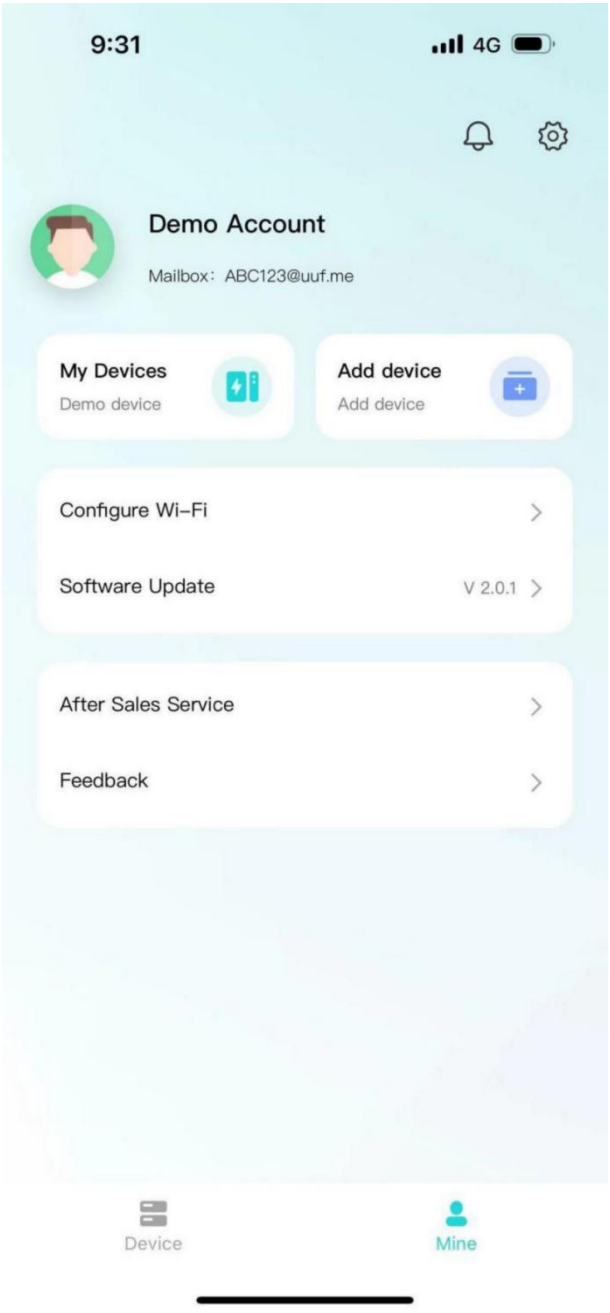




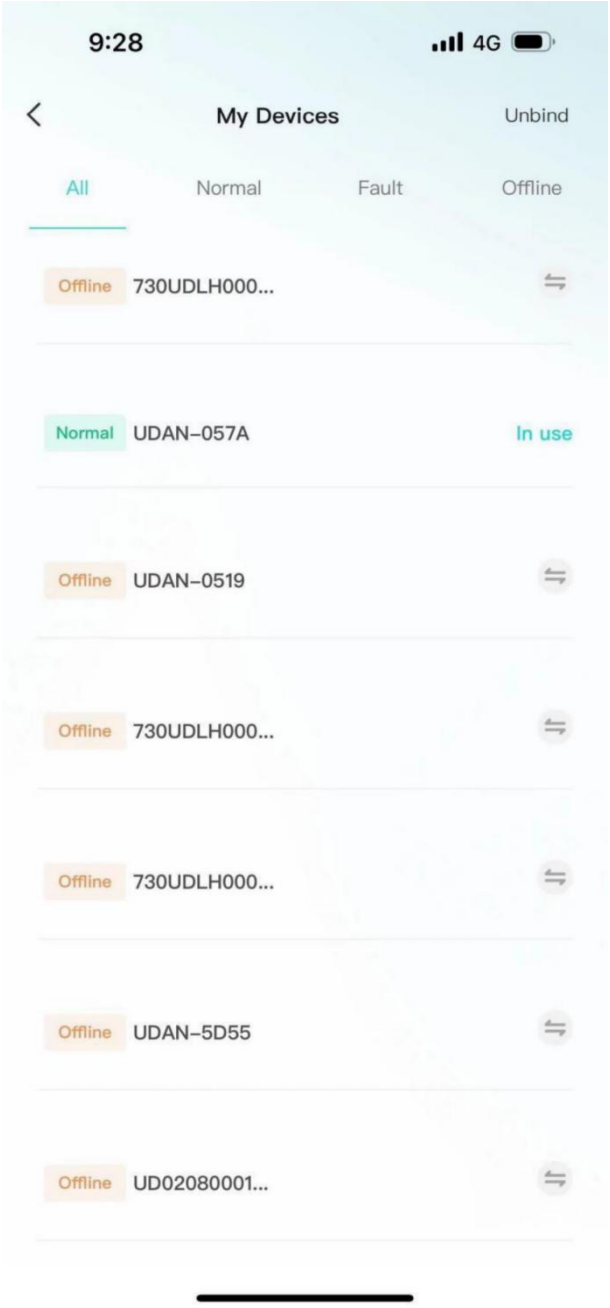


6.4.3 Mine

Mine page allows users to view my devices, add devices, perform software updates, access after-sales services, submit feedback, and manage app settings.

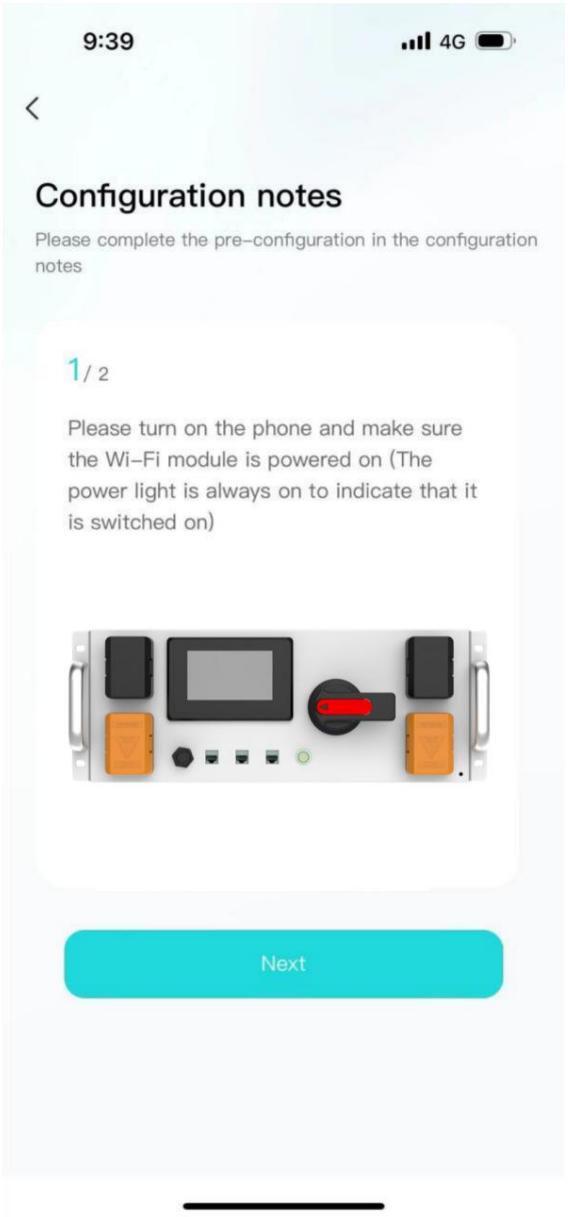


- Click "My Devices" to enter the Facility Management page. You can view all devices managed under the current account, switch the devices displayed on the homepage, unbind devices, and perform other operations.

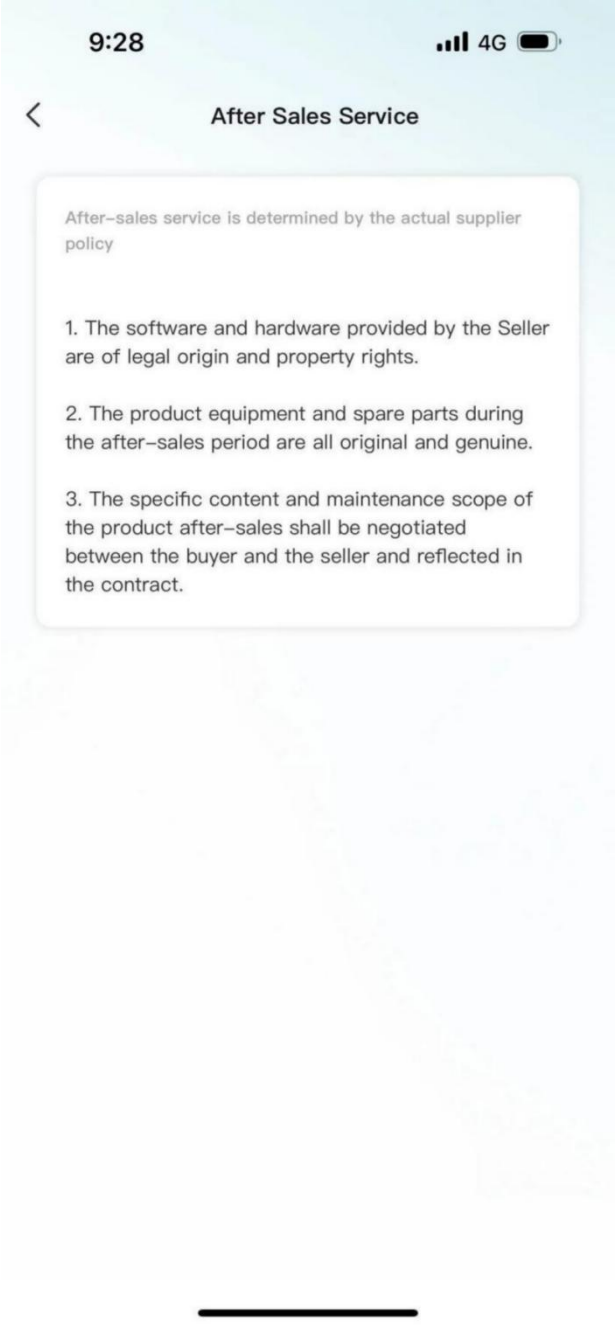


- Click "Add Device" to enter the code scanning page.
- Click "Device Network Configuration" to enter the device network configuration process.





- After clicking "Software Update", the APP will check for a new version. If there is a new version, it will be updated.
- Click "After-Sales Services" and enter the after-sales service page to display the after-sales service information of the current supplier.

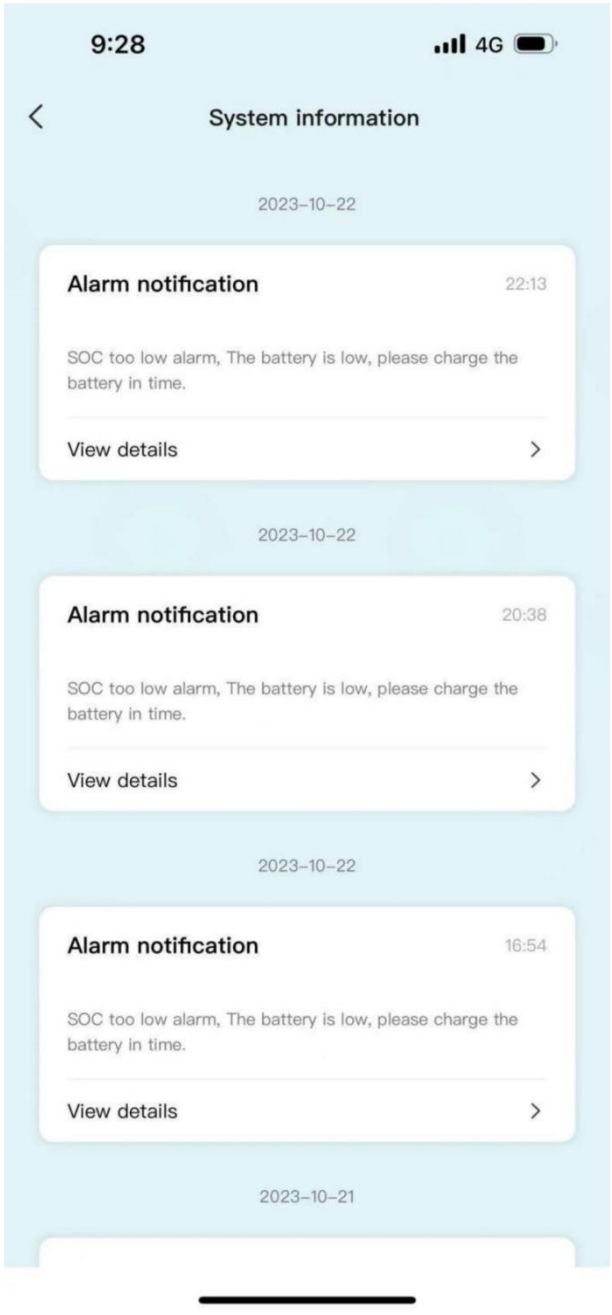


- Click "Feedback" to enter the feedback page. You can enter the current issue that needs to be reported and submit it.



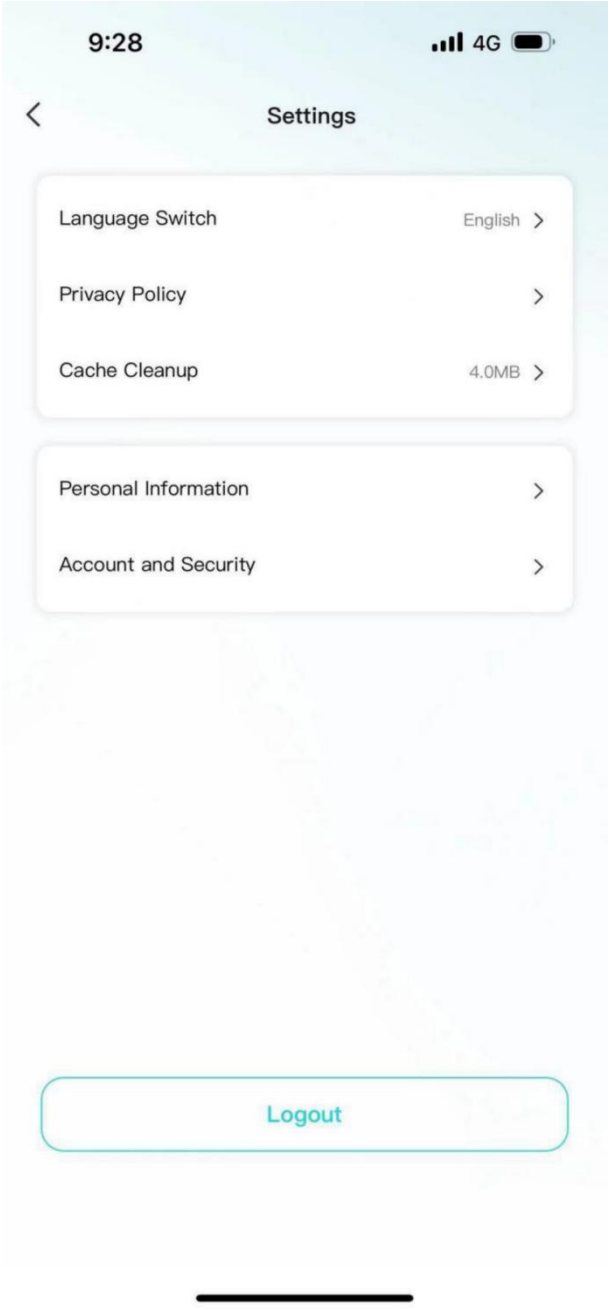
6.4.4 System Information

- When you click the System Information icon at the top of the Device or Mine page, you can enter the inbox page to view current notifications or chat history.



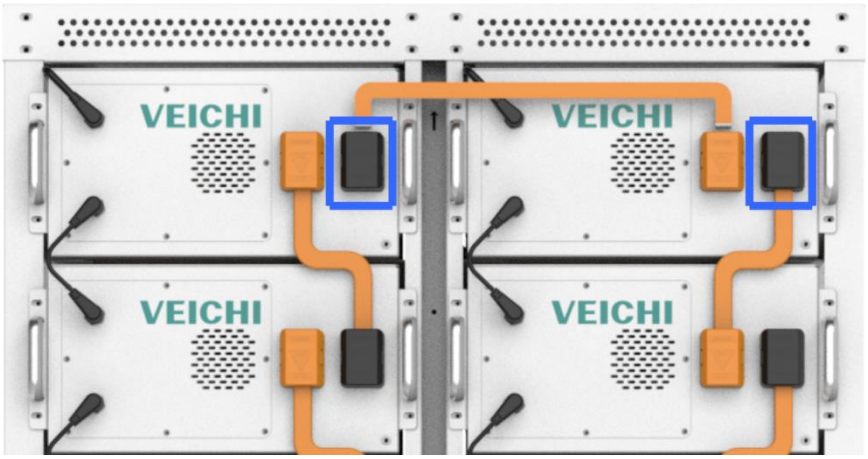
6.4.5 APP Settings

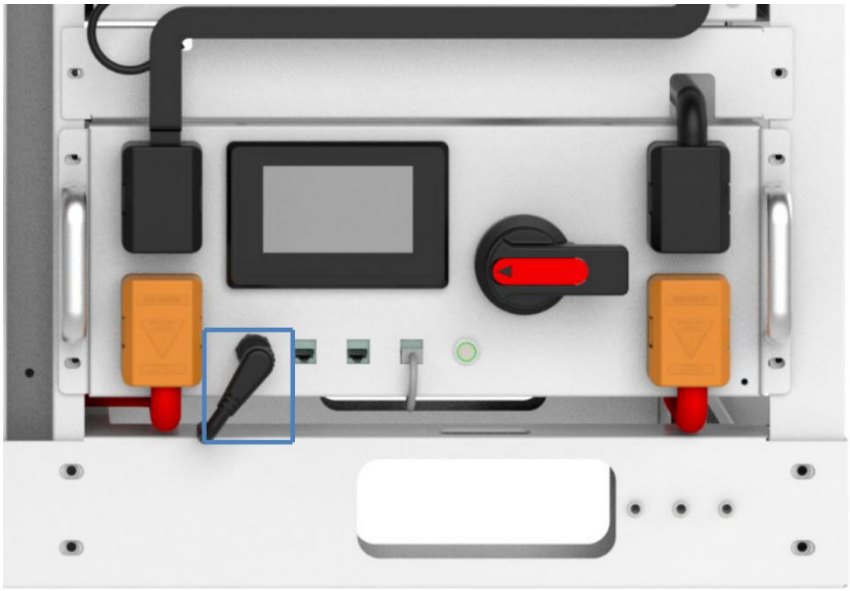
- Click the "Settings" icon in the upper-right corner of the Mine page to enter the APP Settings page.
- The Settings page supports language switching, privacy policy, cache cleaning, personal information, account and security.



7 Battery Module Storage

1. To ensure battery service life, the storage temperature shall be kept between 0℃ and 35℃.
2. The battery shall be cycled at least once every 6 months.
3. To minimize self-discharge during a long storage period, disconnect the battery connection (1/2) cable from the high-voltage control box. This will interrupt the use of the 12V power supply installed in the high-voltage control box and prevent battery self-discharge.





8 Maintenance

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

Before maintenance, ensure that VEICHI-314 is decommissioned according to relevant provisions.

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

The USB-CAN port of VEICHI supports firmware upgrades and battery data recording, which can be used as an auxiliary tool.

To ensure safe operation, all plug connections must be checked. If necessary, relevant operators shall reconnect them properly at least once a year.

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

- Perform a general visual inspection
- Check all 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
High-voltage BMS box lug fixing	1.2Nm
Battery module lug fixing	1.2Nm

- Using the monitoring software, check for abnormal SOC, SOH, battery voltage, and battery temperature values.
- Shut down and restart VEICHI-314 once a year.
- Note: If the system is installed in a polluted environment, maintenance and cleaning must be carried out more frequently.
- Note: Clean the battery rack with a dry cloth. Ensure that no moisture comes into contact with the battery connections. Do not use solvents.

Attention:

1. Do not dispose of 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 they are improperly stored or handled.
3. Batteries also contain iron, lithium and other important raw materials, which are recyclable.

Do not dispose of batteries as household waste!







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VEICHI

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Official Website

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