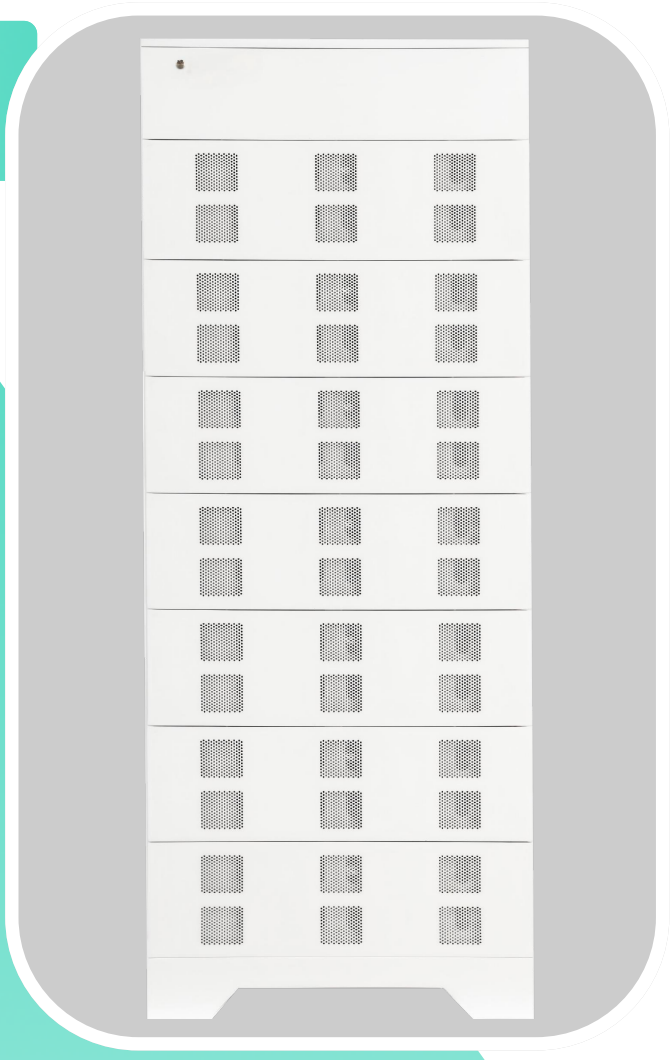
User Manual

EASYWAY ENERGY

Applicable Models

UNIV-16kWh(H)



File version A3 – EN Release Date 01.04.2026

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About this document

This manual describes the product information, installation, electrical connection, commissioning. Read through this manual before installing and operating the product. All the installers and users have to be familiar with the product features, functions, and safety precautions. This manual is subject to update without notice. For more product details and the latest documents, please contact the supplier.

This manual introduces the product UNIV-16kWh(H). It is an energy storage system composed of lithium iron phosphate batteries. Please read this manual before installing the battery and strictly follow the instructions during the installation process. If you have any questions, please contact your distributor for advice and clarification.

Revision History

Revision No.	Revision Date	Revision Reason
V1	2026-04-01	First Published

Symbol Definition

⚠ DANGER
Indicates a high-level hazard that, if not avoided, will result in death or serious injury.
⚠ WARNING
Indicates a medium-level hazard that, if not avoided, could result in death or serious injury.
⚠ CAUTION
Indicates a low-level hazard that, if not avoided, could result in minor or moderate injury.

1. Safety

⚠ WARNING

Please read all safety instructions carefully before performing any work and strictly follow them while handling the battery.

Only qualified persons are allowed to wire the batteries.

Failure to comply may result in:

- Serious injury or fatality to the operator or others.
- Damage to system components, equipment, or third-party property.

Required Qualifications for Personnel:

Personnel must possess the following qualifications to perform installation, commissioning, and maintenance:

- Training in electrical system installation and hazard management.
- Familiarity with this manual and other relevant documentation.
- Knowledge of local regulations and applicable directives.

⚠ CAUTION

Please read carefully to ensure error-free operation of your battery.

Wrong step may cause battery system failure or life cycle reduction.

Before Connecting

- Before installation, ensure that the grid power is disconnected and the battery is turned off. Properly connect the positive and negative cables to avoid reversal, and confirm there are no short circuits in external devices.
- All the battery pack terminals must be disconnected before any maintenance.
- Do not use cleaning solvents to clean battery pack.
- Do not expose battery to flammable or harsh chemicals or vapors.
- Do not connect battery pack with AC/PV solar wiring directly.
- Do not insert any foreign object into any part of the battery pack.
- Keep the battery away from water and heat sources(more than 2 meters).
- The battery system must be correctly grounded.

When using

- If the battery system requires relocation or repair, ensure that the power is disconnected and the battery is turned off.
- Do not connect different types of batteries.
- Do not connect the battery to incompatible or malfunctioning inverters.If you insist on using the battery without communication, we will shorten the warranty period in accordance with the warranty agreement.
- If the battery is not fully charged and discharged over a long period, the SOC may become inaccurate. Please perform a full charge calibration at least once every two weeks. Usually, this maintenance process needs to be completed when the communication between external devices such as monitoring software, batteries, and inverters is normal. (Full charge: SOC(100%) Full discharge: SOC(10%))
- Do not touch the battery pack with wet hands.
- Do not crush, drop or puncture the battery pack.
- Always dispose of the battery pack according to local safety regulations.
- Store and recharge the battery pack in a manner in accordance with this user manual.
- Do not reverse the polarity when installing.
- Do not short circuit the terminals, remove all jewelry items that could cause a short circuit before installation and handling.
- The battery packs should be not stacked more than specified numbers.
- Continued operation of a damaged battery pack can result in dangerous situation.

When storing

- For long-term storage (more than 3 months), the battery cells should be stored in following environment: temperature range -20 to 55°C, relative humidity <65% and no corrosive gases. It is recommended to store the battery within a temperature range of 5 to 45 ℃, with a relative humidity of<65% and no corrosive gases.
- If long-term storage is required, the battery should be charged once every 3 months to ensure that the battery pack has a charge greater than 90% SOC.

Special Reminder

- Battery needs to be recharged within 48 hours, after fully discharged.
- If you encounter any battery issues, do not attempt to open the battery for inspection or repair by yourself. In case of problems, please immediately contact after-sales personnel or distributor for assistance. Any disassembly of the battery must be done under the supervision of after-sales personnel to prevent accidents.
- Don't conduct any dangerous tests by yourself. All testing must be performed under the supervision of technical to avoid serious accidents.
- Battery startup sequence:

1. Connect external wiring properly.
2. Turn on the circuit breaker to begin usage.
3. After pressing the start button and heard a clicking sound, it works normally.Use a multimeter to measure the output voltage. If the voltage falls within the Voltage Range specified in Section 3.1, it can be concluded that the device is functioning properly.

- Battery turn off sequence:

1. Turn off the start button.
2. Turn off the circuit breaker.
3. Disconnect external wiring properly.

2. Introduction

The UNIV-16kWh(H) series battery is a high-voltage energy storage system based on lithium iron phosphate (LiFePO4) batteries. It is one of the new energy storage products developed and manufactured by the company.

This system provides reliable power support for various equipment and systems, especially in applications requiring high power, large capacity, limited installation space, and long cycle life.

2.1 Features

- **High Scalability**: Supports stacking of 3~7 modules for flexible energy expansion.
- **Environmentally Friendly**: The entire module is non-toxic, non-polluting, and eco-friendly.
- **High Safety & Long Cycle Life**: Uses LiFePO4 as the cathode material for enhanced safety and longevity.
- **Intelligent Battery Management System (BMS)**: Provides protection against over-discharge, over-charge, over-current, and high/low temperature.
- **Flexible Configuration**: Multiple battery modules can be connected in series to expand voltage and capacity.
- **Efficient Heat Dissipation**: Designed with fans and ventilation openings, it can effectively reduce battery temperature.
- **Wide Operating Temperature Range**: Functions efficiently with a charging temperature range of 0°C to +55°C and a discharging temperature range of -20°C to +55°C, ensuring excellent performance and longevity. Exceeding the charging temperature range will cause over-temperature alarms or protection of the battery system,while exceeding the discharging temperature range will cause under-temperature alarms or protection of the battery system,which may lead to the reduction of cycle lives.
- **Compact Size & Modular Design**: Standardized module design ensures easy installation and maintenance.

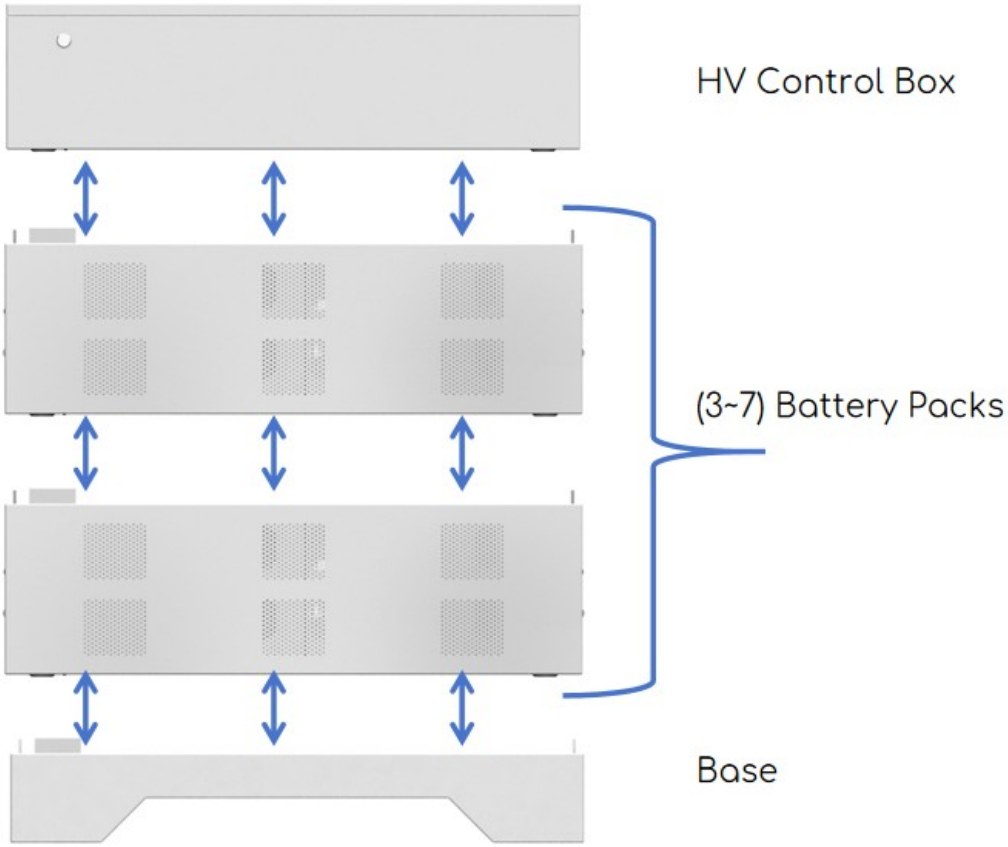
3. Battery System Introduction

3.1 Battery System Specification

MODEL		/	UNIV-HV ST48k	UNIV-HV ST64k
Component		1*Module	3*Modules 1*Control Box 1*Base	4*Modules 1*Control Box 1*Base
BATTERY PARAMETERS				
Total Energy (kWh)		16.08	48.23	64.31
Useable Energy (kWh)		15.11	45.34	60.45
Nominal Voltage (Vd.c)		51.2	153.6	204.8
Voltage Range (Vd.c)		44.8 ~ 57.6	134.4 ~ 172.8	179.2 ~ 230.4
Rated Capacity (Ah)		314		
Recommend Current (A)	Charge	157		
	Discharge	157		
Depth of Discharge (DOD)		90%		
Dimension (W *H* D) (mm)		770*228*420	770*1000*420	770*1228*420
Weight (KG)		115	372	487
BMS Features		Over-voltage & Over-current Protection/Short-circuit Protection/Low-voltage Protection/Over Temperature Protection/Cell Balance		
Communication		CAN/RS485		
OPERATING CONDITION				
Operation Temperature	Charge	0℃ ~ 55℃ (32℉ ~ 131℉)		
	Discharge	-20℃ ~ 55℃ (-4℉ ~ 131℉)		
Storage Temperature		-20℃ ~ 55℃ (-4℉ ~ 131℉)		
IP Rating		IP20		
Installation Type		Stack		
Cooling Type		Fan cooling		
Operating Environment		Indoor (5% ~ 95%(RH) No Condensing)		
Altitude		≤2000 m		
CERTIFICATION AND SAFETY				
Warranty		10 Years		
Operation Life		15+ Years (25℃/77 ℉)		
Certification		CE/Cell UL 1973		
Transportation Certification		UN38.3/MSDS		

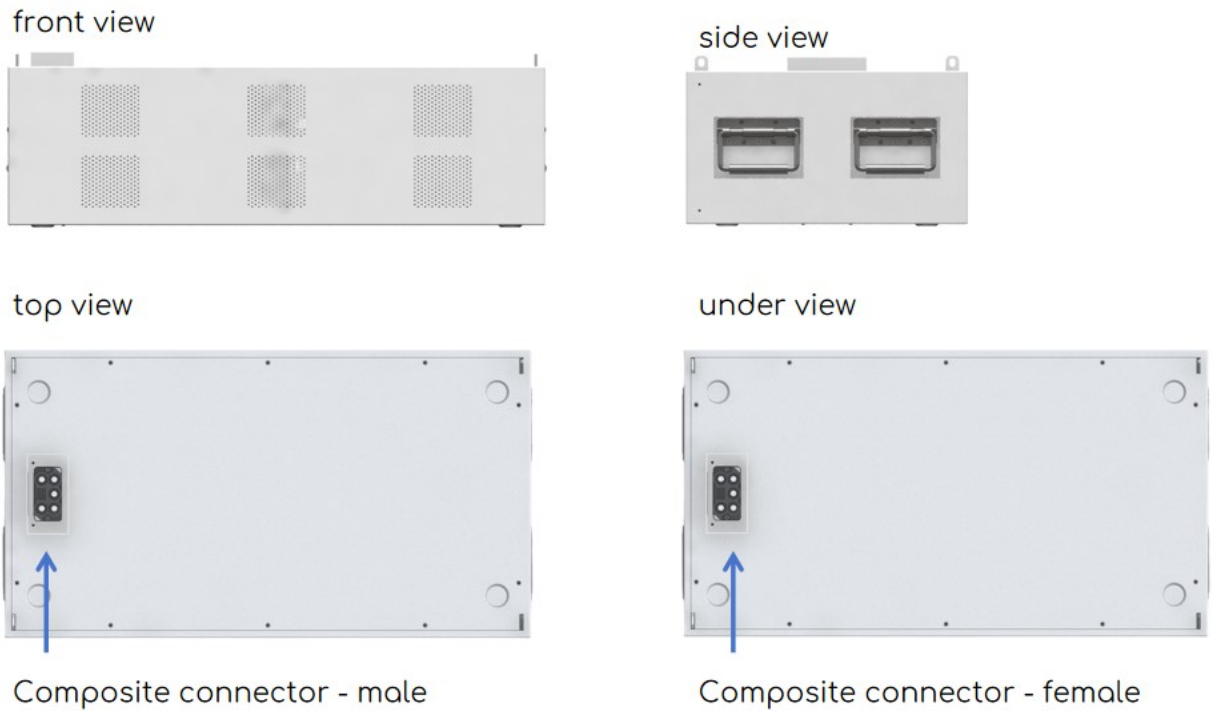
MODEL		UNIV-HV ST80k	UNIV-HV ST96k	UNIV-HV ST112k
Component		5*Modules 1*Control Box 1*Base	6*Modules 1*Control Box 1*Base	7*Modules 1*Control Box 1*Base
BATTERY PARAMETERS				
Total Energy (kWh)		80.38	96.46	112.54
Useable Energy (kWh)		75.56	90.67	105.79
Nominal Voltage (Vd.c)		256.0	307.2	358.4
Voltage Range (Vd.c)		224 ~ 288	268.8 ~ 345.6	313.6 ~ 403.2
Rated Capacity (Ah)		314		
Recommend Current (A)	Charge	157		
	Discharge	157		
Depth of Discharge (DOD)		90%		
Dimension (W *H* D) (mm)		770*1456*420	770*1684*420	770*1912*420
Weight (KG)		602	717	832
BMS Features		Over-voltage & Over-current Protection/Short-circuit Protection/Low-voltage Protection/Over Temperature Protection/Cell Balance		
Communication		CAN/RS485		
OPERATING CONDITION				
Operation Temperature	Charge	0℃ ~ 55℃ (32℉ ~ 131℉)		
	Discharge	-20℃ ~ 55℃ (-4℉ ~ 131℉)		
Storage Temperature		-20℃ ~ 55℃ (-4℉ ~ 131℉)		
IP Rating		IP20		
Installation Type		Stack		
Cooling Type		Fan cooling		
Operating Environment		Indoor (5% ~ 95%(RH) No Condensing)		
Altitude		≤2000 m		
CERTIFICATION AND SAFETY				
Warranty		10 Years		
Operation Life		15+ Years (25℃/77 ℉)		
Certification		CE/Cell UL 1973		
Transportation Certification		UN38.3/MSDS		

3.2 System Detailed Introduction



The entire battery system consists of a HV control box, battery packs, and a base.

3.2.1 Battery Pack Introduction

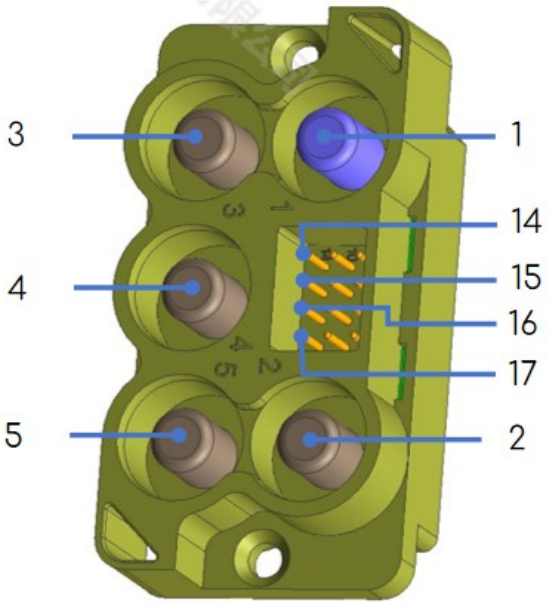


3.2.1.1 Battery Pack Specification

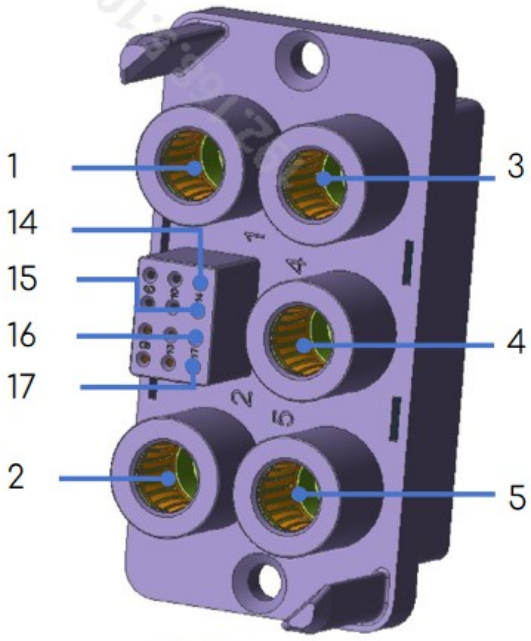
MODEL		UNIV-16kWh(H)
Cell Technology		Li-ion (LFP)
Battery Module Capacity (kWh)		16.08
Battery Module Voltage (V/DC)		51.2
Battery Voltage Range (V/DC)		44.8 ~ 57.6
Battery Module Capacity (Ah)		314
Number Of Battery Module Cells (PCS)		16
Normal Current(A)	Charge	157
	Discharge	157
Dimension(W *H* D) (mm)		770*228*420
Weight (KG）		115
Charge Temperature		0℃ ~ 55℃ (32℉ ~ 131℉)
Discharge Temperature		-20℃ ~ 55℃ (-4℉ ~ 131℉)
Storage Temperature		-20℃ ~ 55℃ (-4℉ ~ 131℉)
Cooling Type		Fan cooling
Operating Environment		Indoor (5% ~ 95%(RH) No Condensing)
Altitude		≤2000 m
Warranty		10 Years
Operation Life		15+ Years (25℃/77 ℉)
Certification		CE/Cell UL 1973
Transportation Certification		UN38.3/MSDS

3.2.1.2 Battery Pack Appearance

Composite connector - male



Composite connector - female



No.	Composite connector - Male	Composite connector - Female
1/3	Power +	Power +
2/5	Power -	Power -
4	ground wire	ground wire
14	Fan +	Fan +
15	Fan -	Fan -
16	Can H	Can H
17	Can L	Can L

3.2.2 HV Control Box Introduction

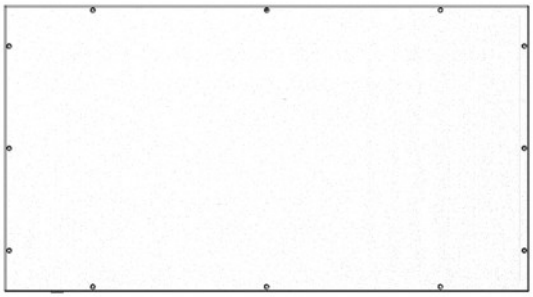
front view



side view



top view



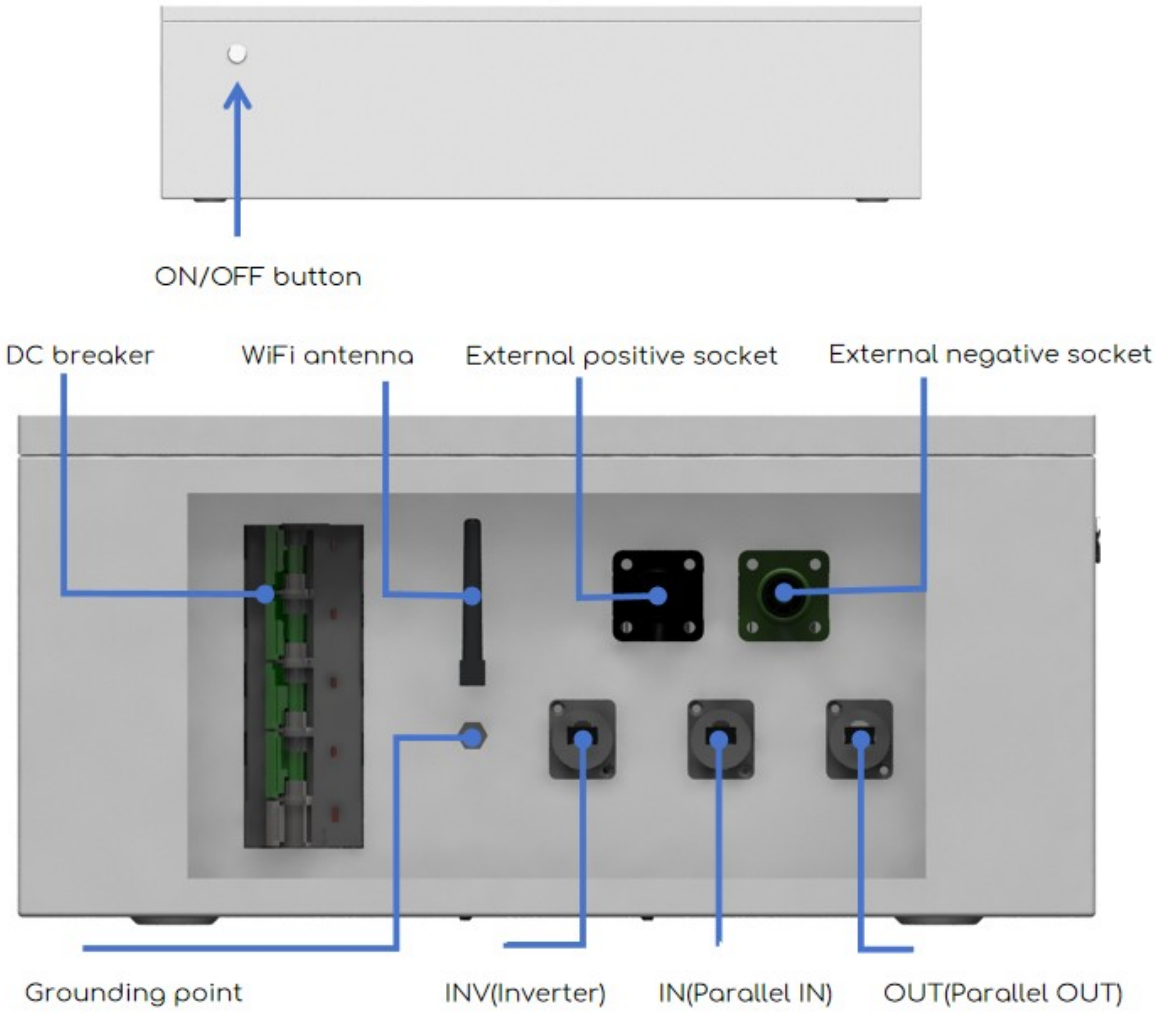
under view



3.2.2.1 HV Control Box Specification

MODEL		HV Control Box
Working Voltage (V/DC)		80~1000
Normal Current(A)	Charge	157
	Discharge	157
Peak current (A)		200A, 10s
Dimension (W *H* D) (mm)		770*200*420
Operating Temperature		-20℃ ~ 55℃
Altitude		≤2000 m
Cooling method		natural cooling
Weight (kg)		21
Scalability		Max parallel 8 cluster

3.2.2.2 HV Control Box Appearance



Name	Function Description
ON/OFF button	Press to power on/off the HV Control Box
DC breaker	The master switch of the HV Control Box
WiFi antenna	For WiFi antenna installation
External positive socket	Connect with battery positive terminal
External negative socket	Connect with battery negative terminal
INV (Inverter)	Connected to the inverter network port
IN (Parallel IN)	Parallel communication with multi cluster systems
OUT (Parallel OUT)	Parallel communication with multi cluster systems
Grounding point	Reserved baseline interface

3.3 Communication Instructions

3.3.1 Communication With Inverter

⚠ CAUTION

Please read the definition of the Battery Communication interface in the inverter's instruction manual before proceeding with this part of the operation.

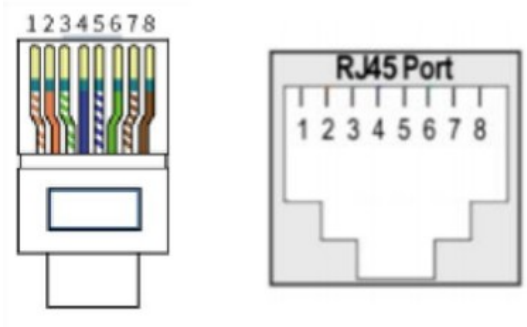
If you have problems with this part of the communication, please contact the after-sales department or an authorized dealer.

if you use CAN communication, you need to pay attention to CAN1_H and CAN1_L in the definition of battery interface.

When the pin definition of communication between the inverter side and the battery side is the same, the communication can be done by using normal network cable.

If the pin definition of communication between inverter and BMS is not the same, you need to make a special cable according to the inverter pin, otherwise the inverter will not recognize the battery.

Interface Definition



CAN	
Pin	Definition description
1	RS485-A
2	RS485-B
3	NC
4	CAN1-H
5	CAN1-L
6	NC
7	CAN0-H
8	CAN0-L

3.3.2 Communication Between The Battery Packs

Communication between batteries have been established with composite connector - male and female including in the battery package.

4 Installation And Configuration

4.1 Installation Recommendations

Environmental Requirements

⚠ DANGER

Cleanliness

The battery system features high-voltage connectors, and environmental conditions can affect the system's isolation. Before installation and powering on, ensure that dust and metal debris are removed to maintain system cleanliness. The environment should provide a certain level of dust protection. During ongoing system operation, regularly check for dust and humidity levels.

Fire Protection

The room must be equipped with a fire protection system or fire extinguishers (foam extinguishers are recommended). The fire protection system should be regularly inspected to ensure it is functioning properly. Please follow the local guidelines for the use and maintenance of fire protection equipment.

Grounding Protection

Ensure that the grounding point for the battery system is stable and reliable prior to installation. If the battery system is installed in a standalone equipment cabin (e.g., a container), verify that the grounding of the cabin is stable and reliable. The resistance of the grounding system must be ≤100mΩ.

⚠ CAUTION

Temperature Considerations

The HV series battery supports operation within a temperature range of -20°C to +55°C. Exceeding this range may trigger over-temperature or under-temperature alarms/protection, and long-term use outside the specified range can reduce the cycle life of the battery system.

Cooling System

If the temperature does not meet the operating conditions, an external cooling

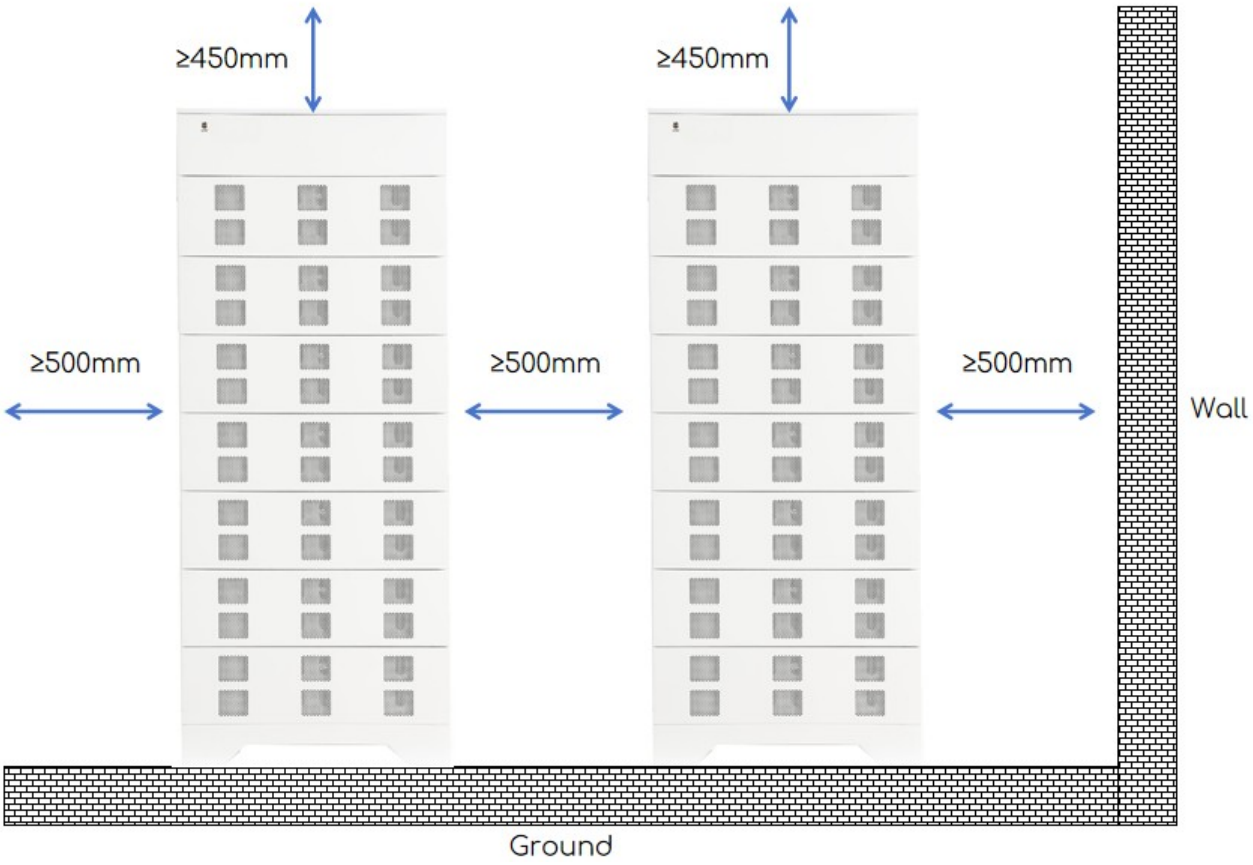
system, such as central air conditioning, should be provided to ensure the battery system remains within the optimal temperature range. Exceeding the temperature range will trigger over-temperature alarms or protection, which may reduce the service life.

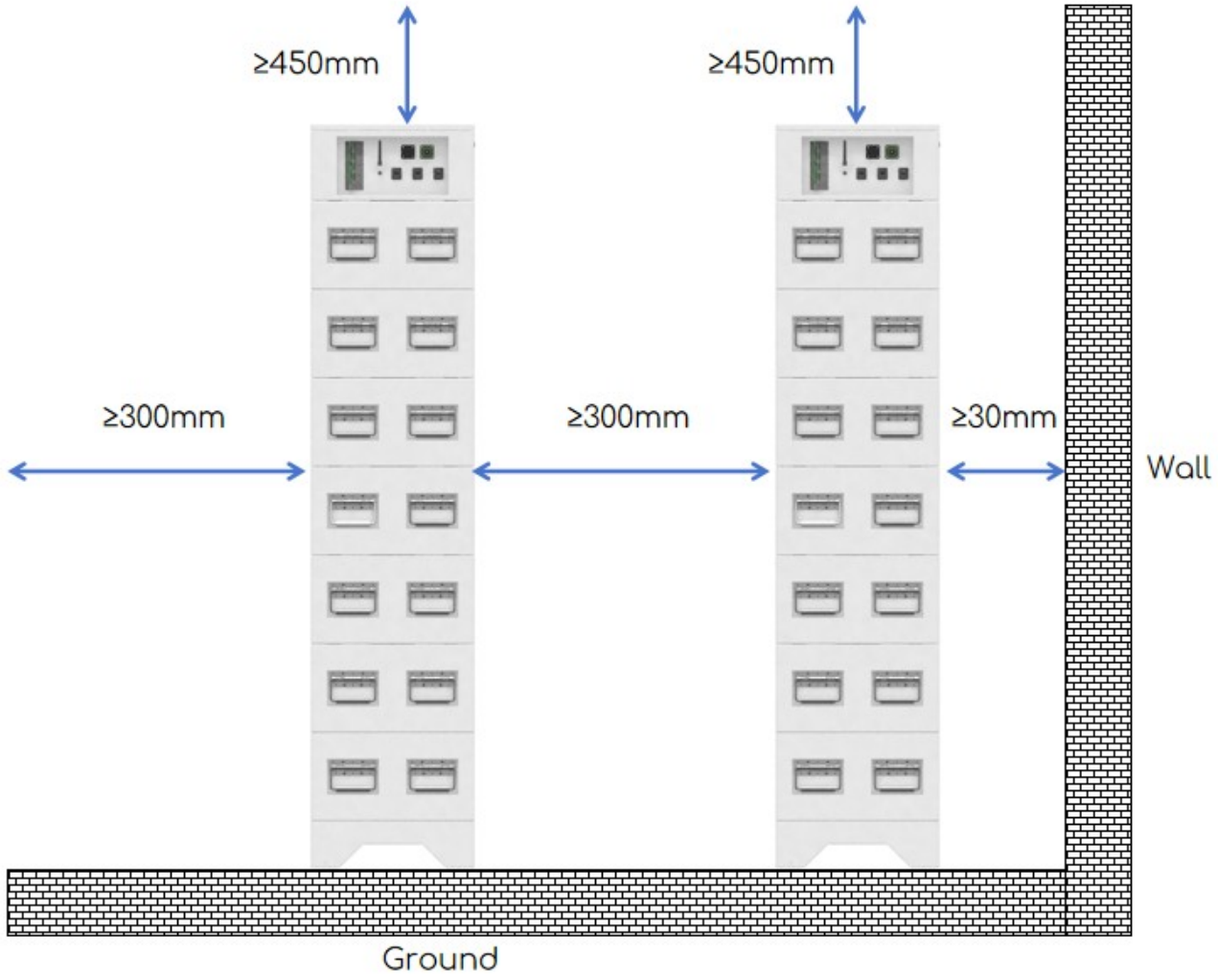
Heating System

If the temperature does not meet the operating conditions, a heating system, such as central heating, should be provided to ensure the battery system stays within the optimal temperature range. If the ambient temperature falls below 0°C, the system may shut down for protection(Functions efficiently with a charging temperature range of 0°C to +55°C and a discharging temperature range of -20°C to +55°C).

In this case, the heating system must be activated first. Exceeding the working temperature range will trigger under-temperature alarms or protection, potentially reducing the cycle life of the battery system.

Installation Location Requirements





The conductor of the power cord should have a copper wire cross-sectional area as shown in the table below, referring to AWG(American Wire Gauge). This standard is for reference only.

AWG			cross-sectional area	current	
wire number	mm	Inch	mm2	Normal(A)	Maximum(A)
2/0	9.266	0.3648	67.4300	266.2	303.5
1/0	8.252	0.3249	53.4900	211.1	240.7
1	7.348	0.2893	42.4100	167.4	190.9
2	6.543	0.2576	33.6200	132.7	151.3
3	5.827	0.2294	26.6700	105.2	120.0
4	5.189	0.2043	21.1500	83.5	95.2
5	4.620	0.1819	16.7700	66.2	75.5

Installation Tools

		
Wrench	Multimeter	Drilling machine
		
Crimping tool	Phillips screwdriver	Wire stripper
		
Cables		

Protective equipment

	
Insulated gloves	Safety shoes

HV Control Box Accessories List

Item	Specification	Quantity	Appearance
HV Control Box	HV Control Box	1	
Base	Base	1	
Power Cable(optional)	Connect with inverter(1.5m)	2	 
Network Cable(optional)	Connect with inverter(1.5m)	1	
RJ45 Plug	RJ45 Plug	4	
Manual	Manual	1	
Copper Lug(optional)	For grounding wire	2	
Warranty Card	Warranty Card	1	
CAN Box(optional)	Can box	1	
Terminal resistor	Terminal resistor	1	

Battery Accessories List

Item	Specification	Quantity	Appearance
Battery	UNIV-16kWh(H)	1	
Quality Inspection Report	Report	1	
Warranty Card	Warranty Card	1	

Preparation Before Installation

Site Assessment:

Ensure the installation site is dry, clean, and free from dust. The area should be free from direct sunlight and excessive humidity to protect the equipment.

Unpacking:

Before unpacking, check the shipping list to confirm the total number of packages. Inspect each package for any visible damage.

Equipment Inspection:

Once unpacked, verify that all items are intact and match the packing list. If there is any damage to the packaging, document and inspect the goods thoroughly.

Handling:

Handle all equipment with care, paying particular attention to avoid damaging the surface

4.2 Equipment Installation

4.2.1 Installation Preparation

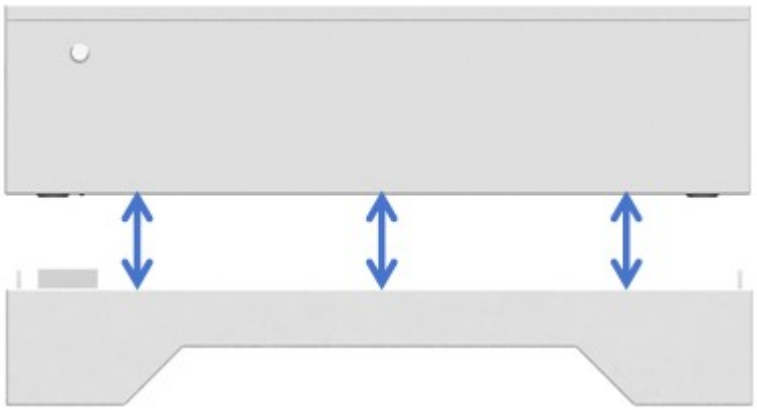
⚠ WARNING

1. Batteries stored for a period of time may experience some capacity degradation. Mixing these batteries with newly manufactured ones may result in capacity loss.
2. Batteries from different production batches may have slight capacity differences. Mixing batteries from different batches may cause capacity loss.
3. Do not mix batteries of different models without proper authorization.
4. **If any of the above unavoidable situations occur, please contact the after-sales service personnel or an authorized distributor.**

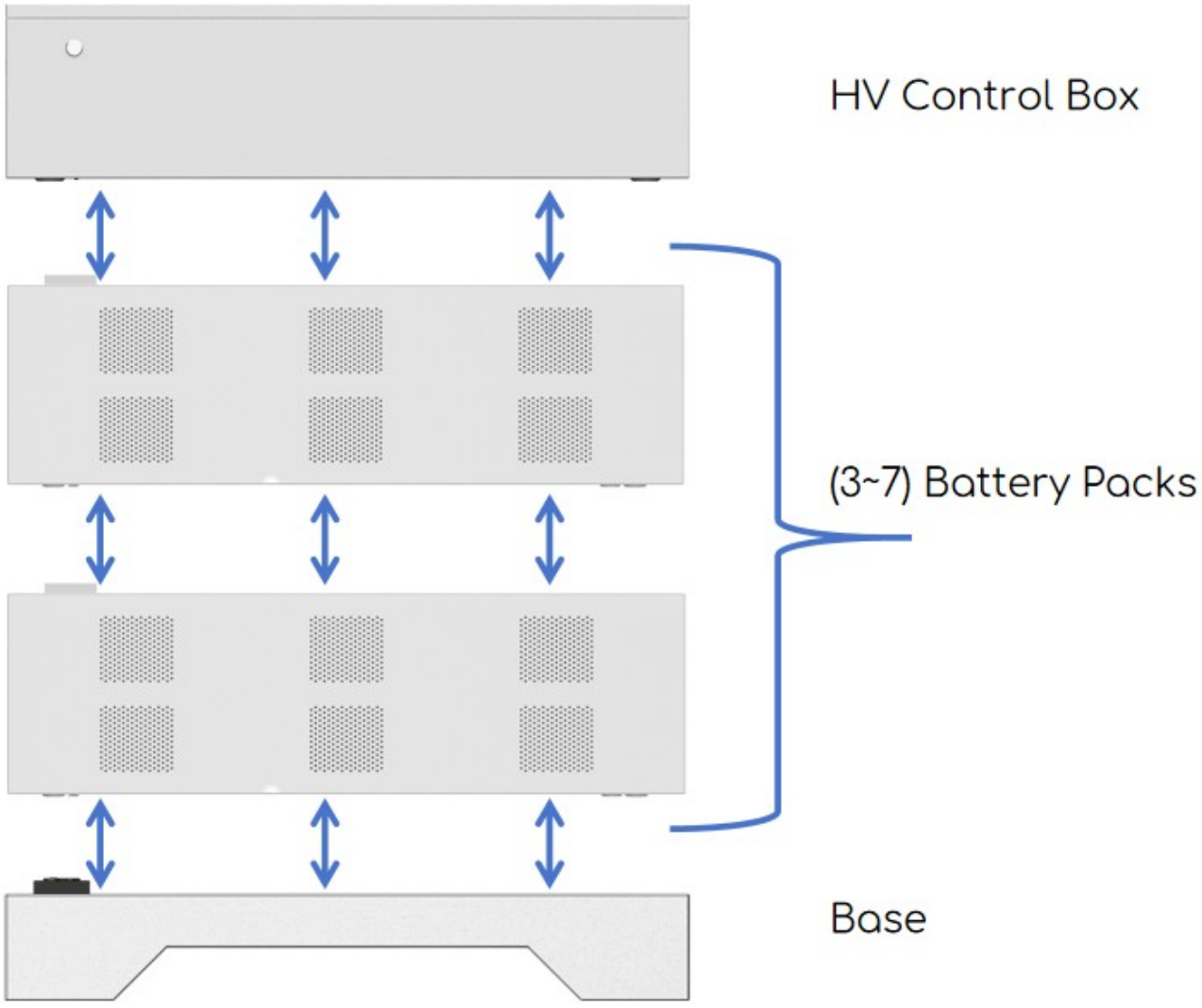
1. Check whether all battery accessories are complete.
2. Ensure that the environment meets all the technical specifications.
3. Make sure the installation project adheres to the guidelines outlined in section 4.2.1 Caution.
4. Prepare the necessary equipment and tools for installation.
5. Verify that the DC breaker is in the OFF position.

4.2.2 Installation Step

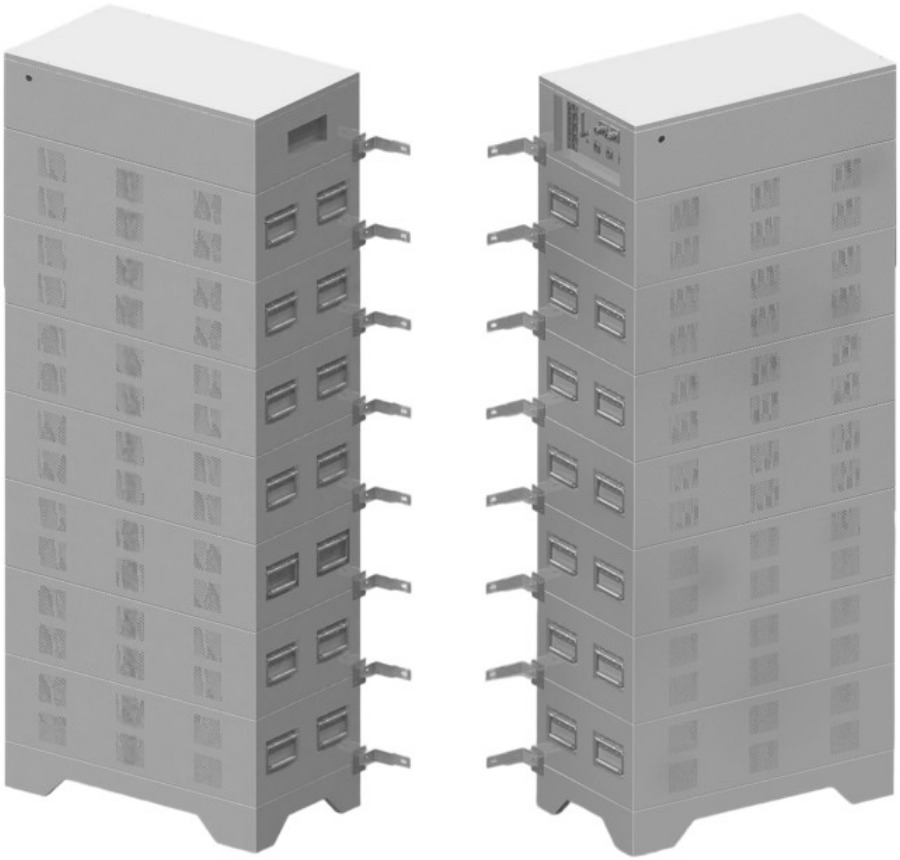
1. Separate HV control box from the base.



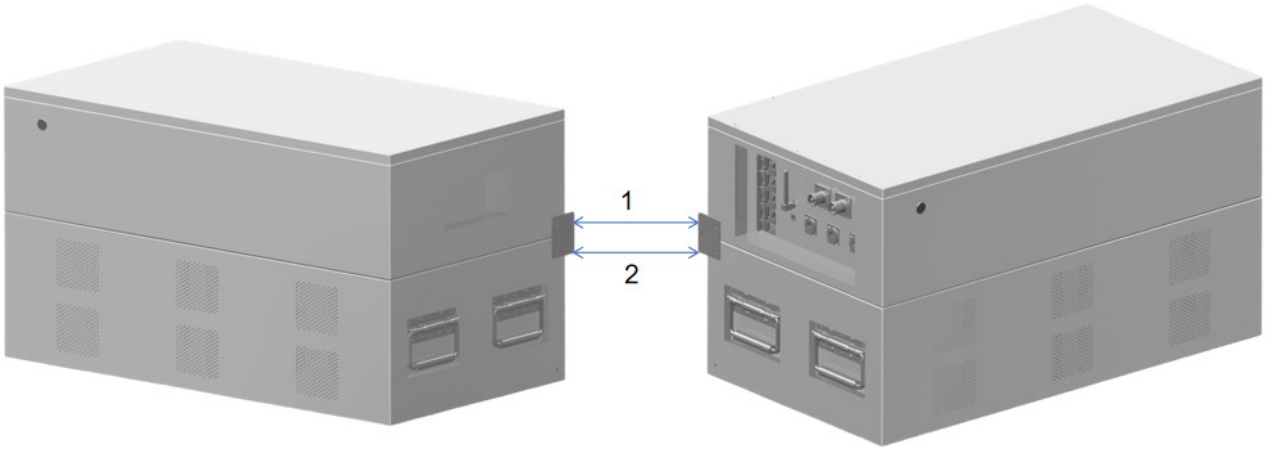
2. Place the base in the designated position
3. Place the battery packs on the base
4. Place the HV control box on the battery packs..



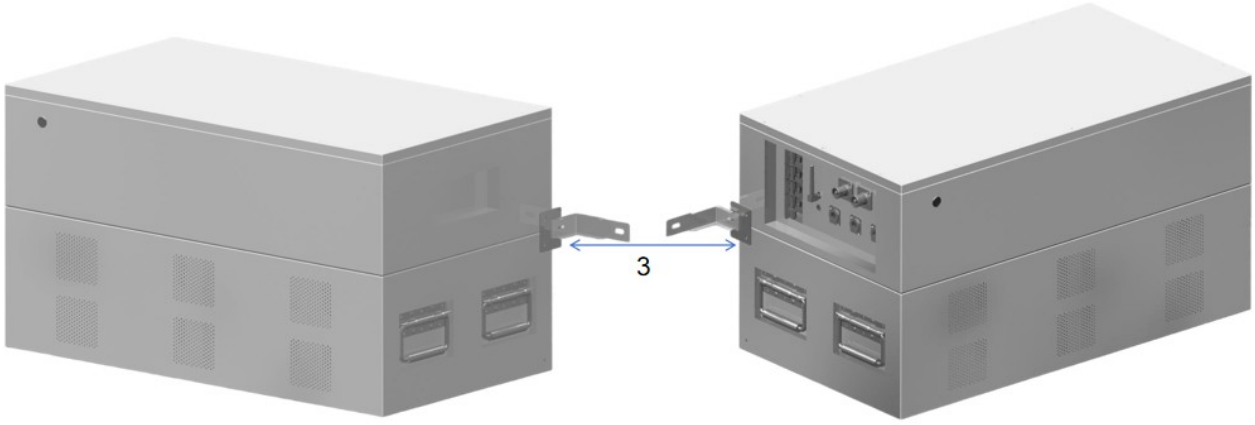
To fix the equipment, it is necessary to install the lock wall hanging ears according to the following steps.



5. Use the M4 screws in the accessories to fix the sheet metal as shown in the following figure to the equipment.

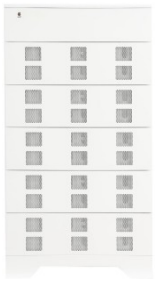
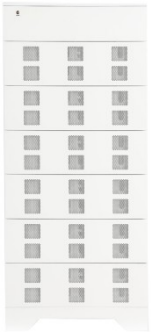
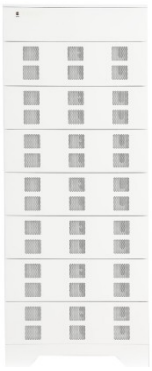


6. Use right angled hanging ears to determine the drilling position on the wall for drilling and installing expansion bolts.
7. Using a Phillips screwdriver and the M4 screws in the accessories, tighten the third screw as shown in the figure below to secure the right angle hanging ear in place.



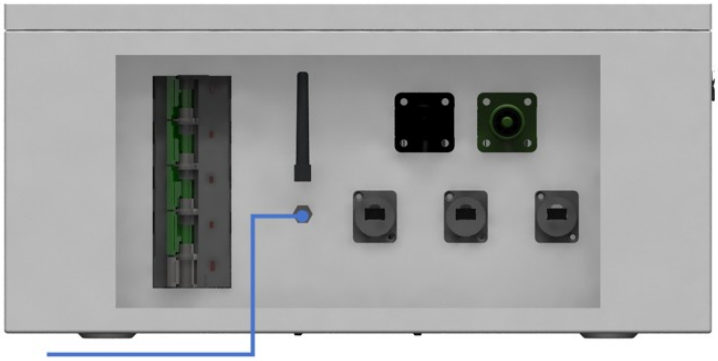
8. Use tools to fix the right angle hanging ear onto the expansion bolt.

Final product appearance diagram

UNIV-HV ST48k	UNIV-HV ST64k	
		
UNIV-HV ST80k	UNIV-HV ST96k	UNIV-HV ST112k
		

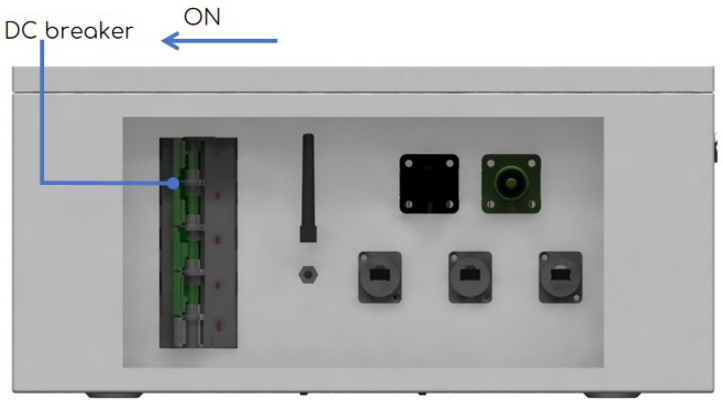
4.2.3 Battery system grounding

Connect the Ground point of the HV Control Box to the Ground point of the inverter. The resistance of the grounding system must be ≤100mΩ. The location of the Ground point of the HV Control Box is shown in the figure below



4.2.4 Battery system self-test

1. Switch the DC breaker to ON position.



2. Press the button to turn on, its rebound position will be lower, and heard a clicking sound(the sound of a electric relay working), it works normally.



3. Check the system output voltage.Use a multimeter to measure the output voltage on the positive and negative ports of the HV Control Box (For specific

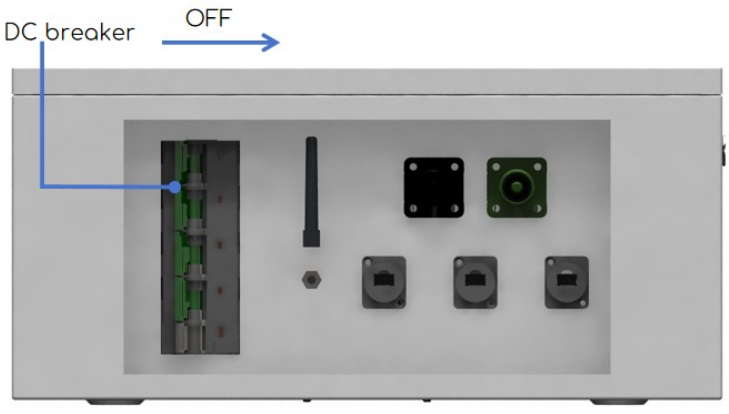
wiring instructions, please refer to the multimeter product manual). The output voltage should fall within the voltage range specified in Section 3.1.



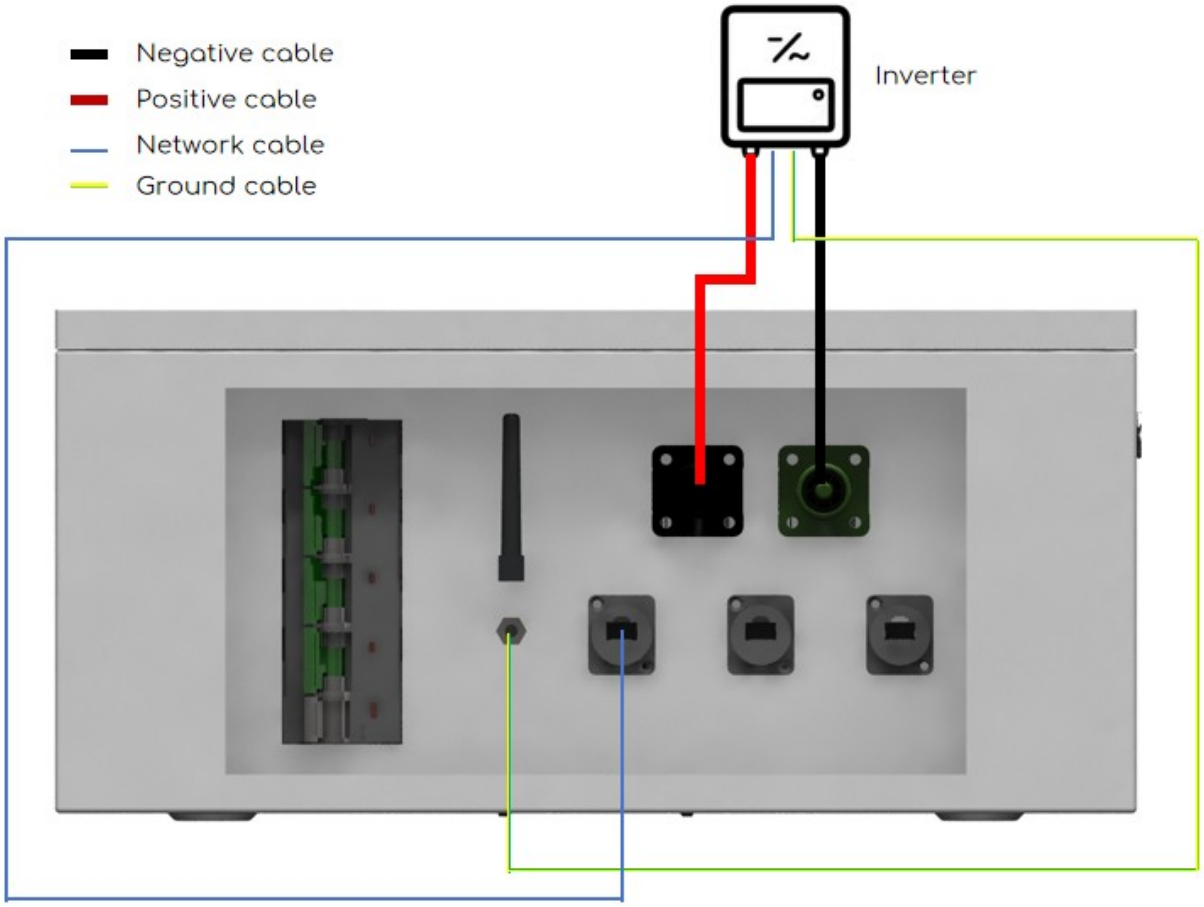
4. Press the button to turn off, its rebound position will be higher



5. Switch the DC breaker to OFF position.



4.2.5 Connecting inverter

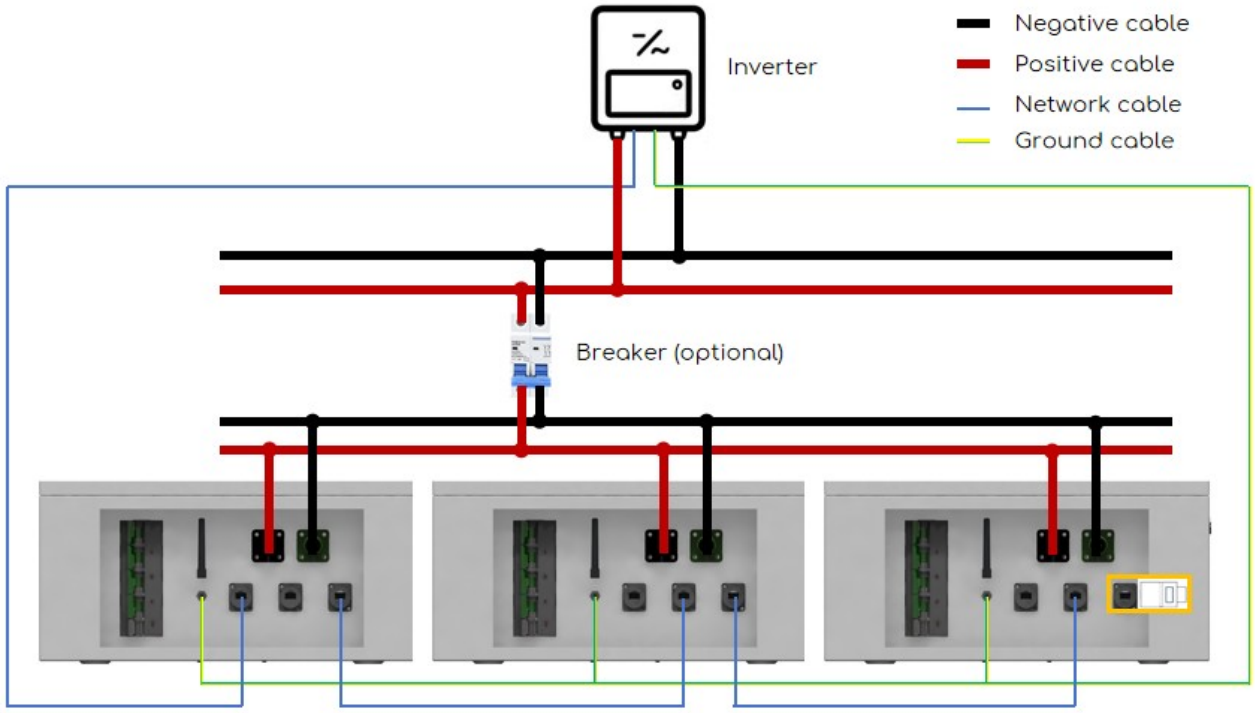


1. Connect the Ground point of the HV Control Box to the Ground point of the inverter. The resistance of the grounding system must be ≤100mΩ (Usually, the ground cable is a yellow-green cable).
2. Connect the negative socket of the HV Control Box to the negative terminal of the inverter using the corresponding negative power cable (Usually, the negative cable is a black cable). It is recommended to use cables with a cross-sectional area of 50mm².
3. Connect the positive socket of the HV Control Box to the positive terminal of the inverter using the corresponding positive power cable (Usually, the positive cable is a red cable). It is recommended to use cables with a cross-sectional area of 50mm².
4. Use an RJ45 network cable to connect the INV interface of the HV Control Box to the CAN/RS485 interface of the inverter (refer to the inverter manual for specific interfaces). Some inverters may have different pin definitions. The solution is to refer to the inverter manual and use network cable pliers to re press the RJ45 interface.

4.2.6 parallel operation

⚠ CAUTION

Please double-check that the inverter you are using is on the official compatibility list for this battery system. If it is not, the system may not operate properly. If a compatibility issue occurs, please contact your supplier or an authorized distributor immediately for prompt assistance in resolving the issue.



Battery pack parallel connection wiring operation is shown in the diagram above

1. Connect the grounding point of each HV Control Box to the grounding point of the inverter. The resistance of the grounding system must be ≤100mΩ (Usually, the grounding cable is a yellow-green cable).
2. Connect the negative socket of each HV Control Box to the negative terminal of the inverter using the corresponding negative power cord (Usually, the negative cable is a black cable). It is recommended to use cables with a cross-sectional area of 50mm².
3. Connect the positive socket of each HV Control Box to the positive terminal of the inverter using the corresponding positive power cord (Usually, the positive cable is a red cable). It is recommended to use cables with a cross-sectional area of 50mm².

4. It is recommended to use a breaker to control the on/off of the power lines of the inverter and HV Control Boxes.
5. Use an RJ45 network cable to connect the OUT (Parallel OUT) interface of the first HV Control Box to the next IN (Parallel IN) interface of the next HV Control Box,and so on.Ensure that each HV Control Box is connected in parallel using RJ45 network cables
6. Insert the supplied 120Ω resistor into the OUT (Parallel OUT) interface of the last HV Control Box.
7. Use an RJ45 network cable to connect the INV(Inverter) interface of the first HV Control Box to the CAN/RS485 interface of the inverter (refer to the inverter manual for specific interface). Some inverters may have different pin definitions. The solution is to refer to the inverter manual and use network cable pliers to repress the RJ45 interface.

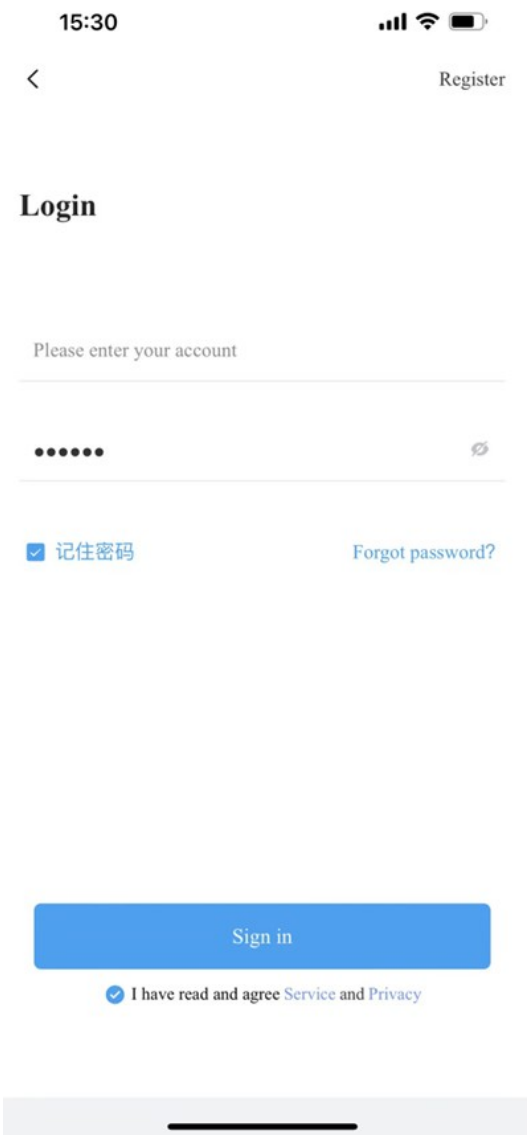
4.2.7 Connecting the Wi-Fi

Download

Click the link https://ievcloud.com/app_udan_hess_om.html to access the download page. (For Apple mobile phone users,search for "Xiaodan Household Energy Storage Operation and Maintenance Version" in the App Store to download and install the APP.)

Login

After opening the APP, you will enter the login interface. Users can log in via email account.

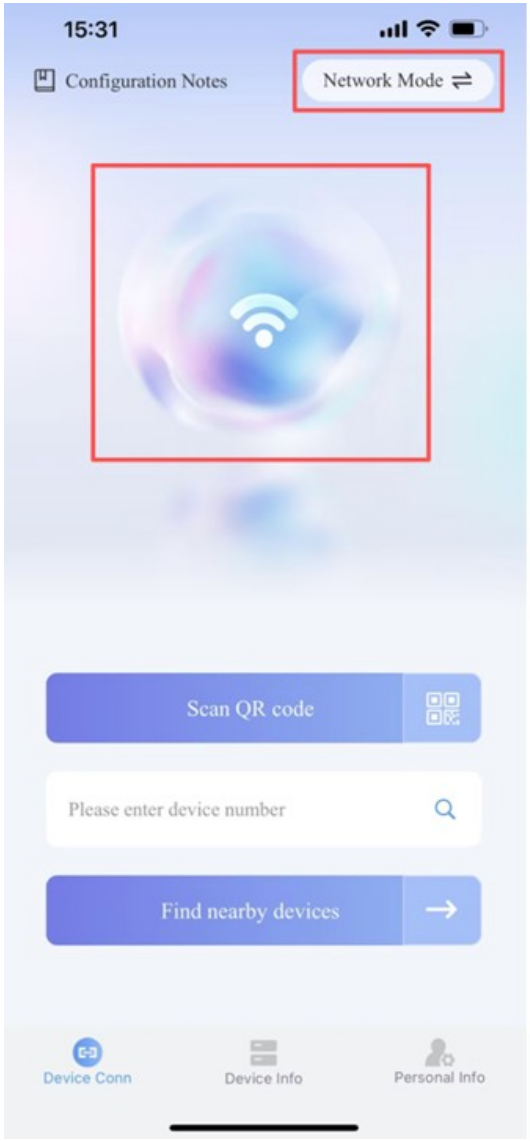


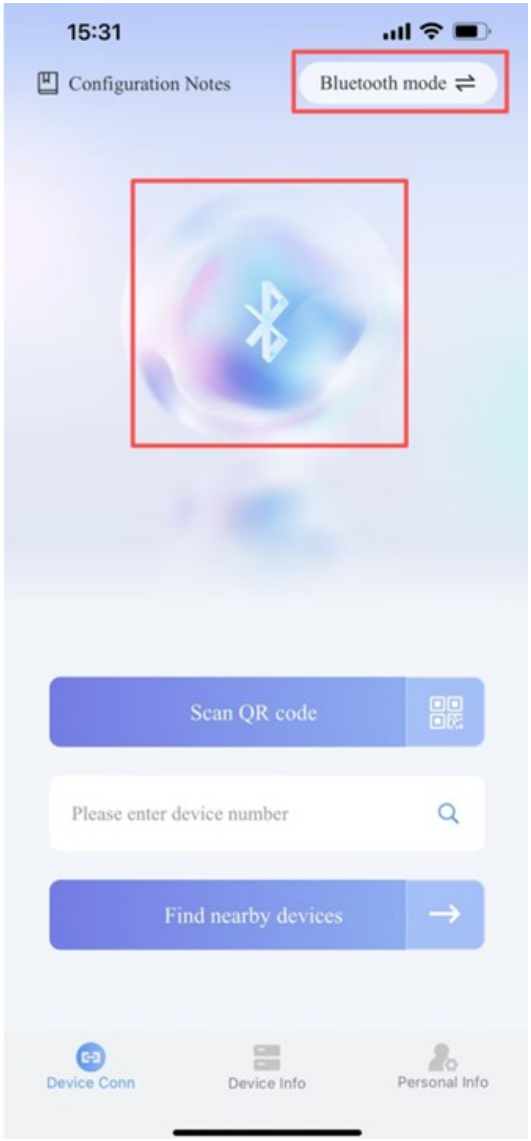
Device Connection

The"Device Connection" function is the entry point for realizing interaction between the APP and devices. Tap the "Network/Bluetooth Mode"button in the uppe rright

corner of the APP interface to switch between "Network Mode"and"Bluetooth Mode",ensuring smooth access to device data in different scenarios.

Function	Description
Network Mode	The core function under "Network Mode"is the"Device Network Configuration" operation. Users can complete the binding of the device to the network in this mode. After successful network configuration, the device will connect to the cloud system.
Bluetooth Mode	Under"Bluetooth Mode", the APP can establish a direct Bluetooth connection with the device without relying on an external network. The device's core operating data will be transmitted directly to the APP via the Bluetooth channel, ensuring that users can still access device data and issue some commands in network-free environments.

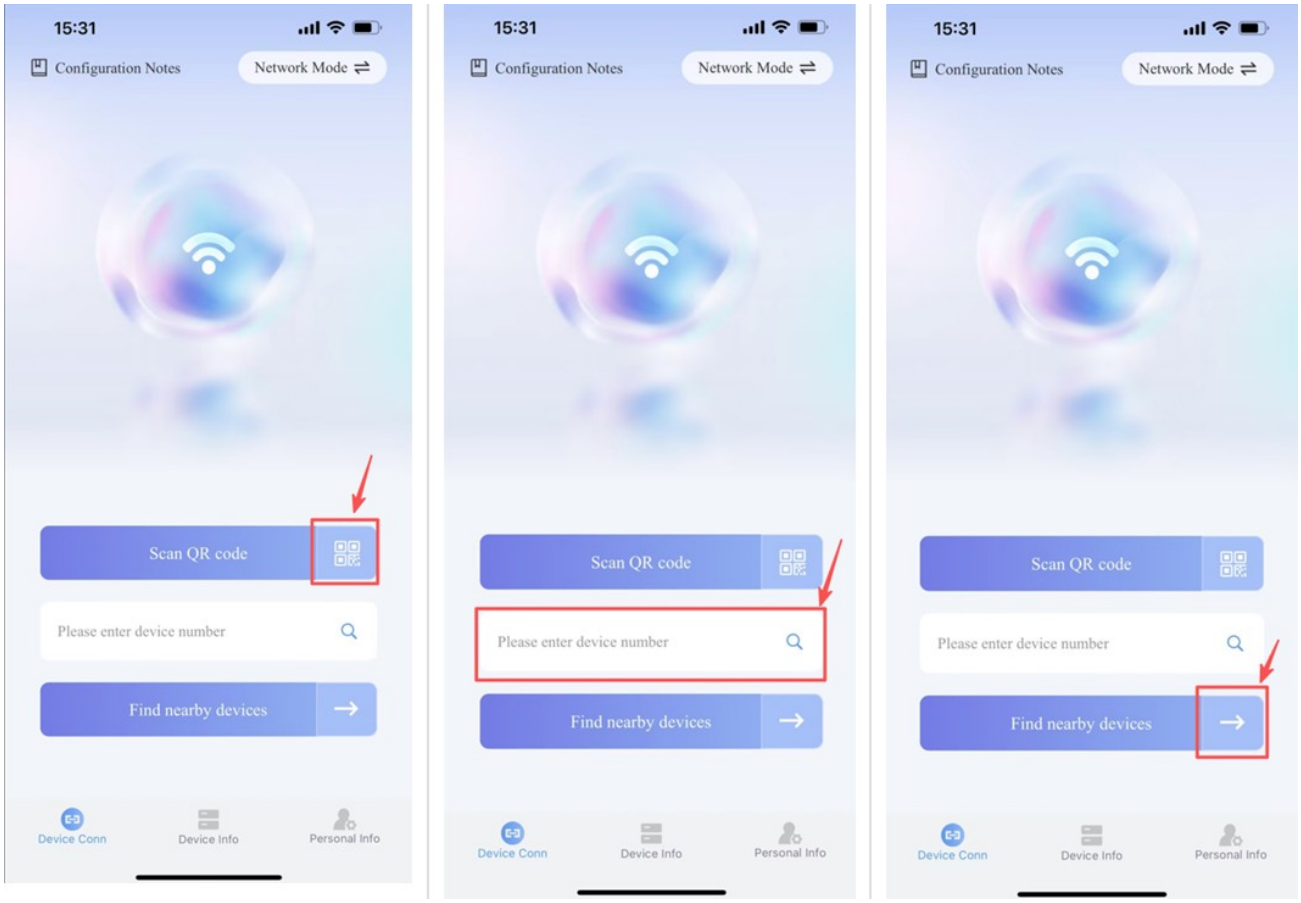




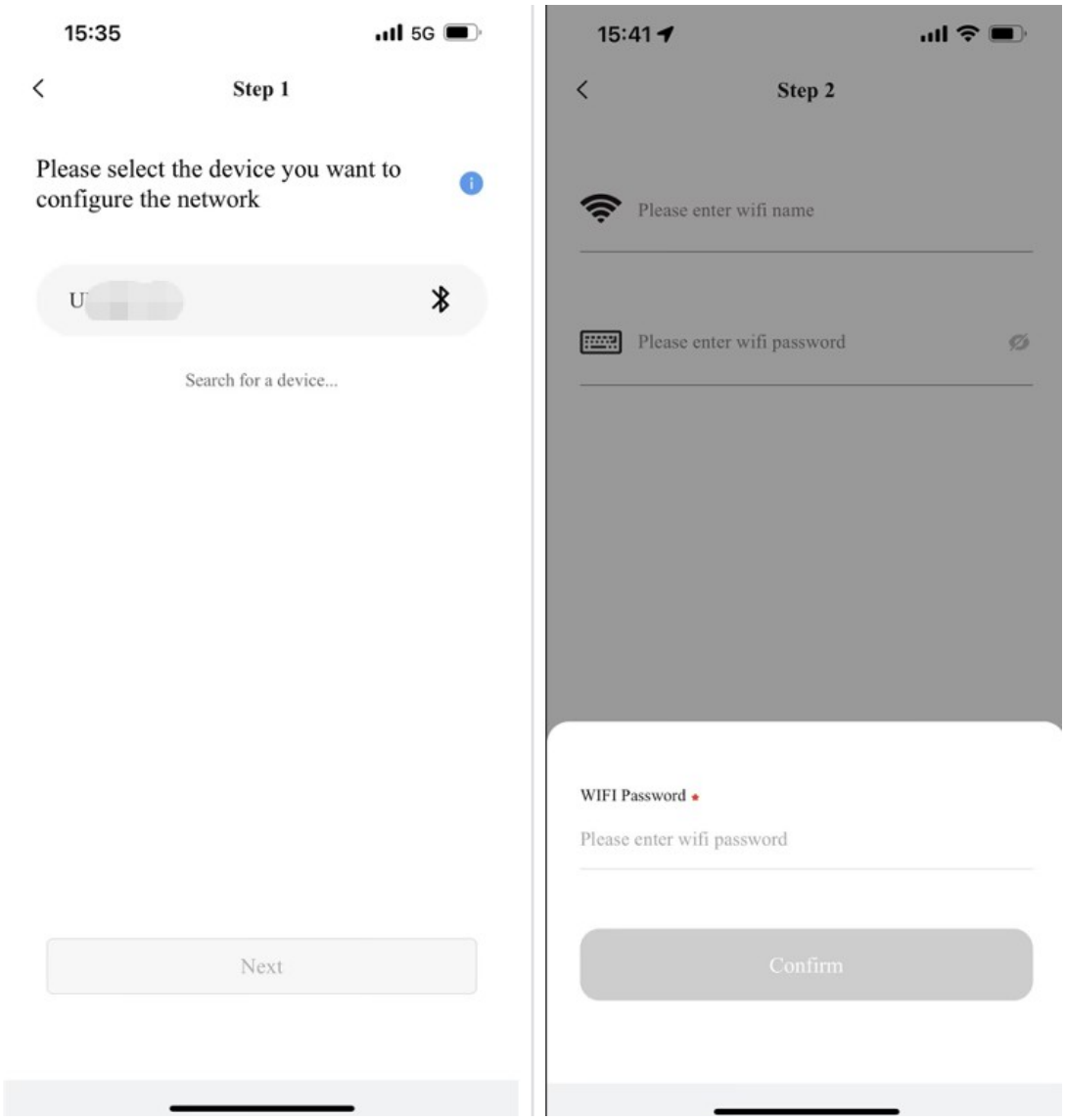
Device Network Configuration

Preparation before network configuration:Ensure the device is"powered on"and the mobile phone has"Bluetooth and WLAN(Wireless Local Area Network)"functions enabled.

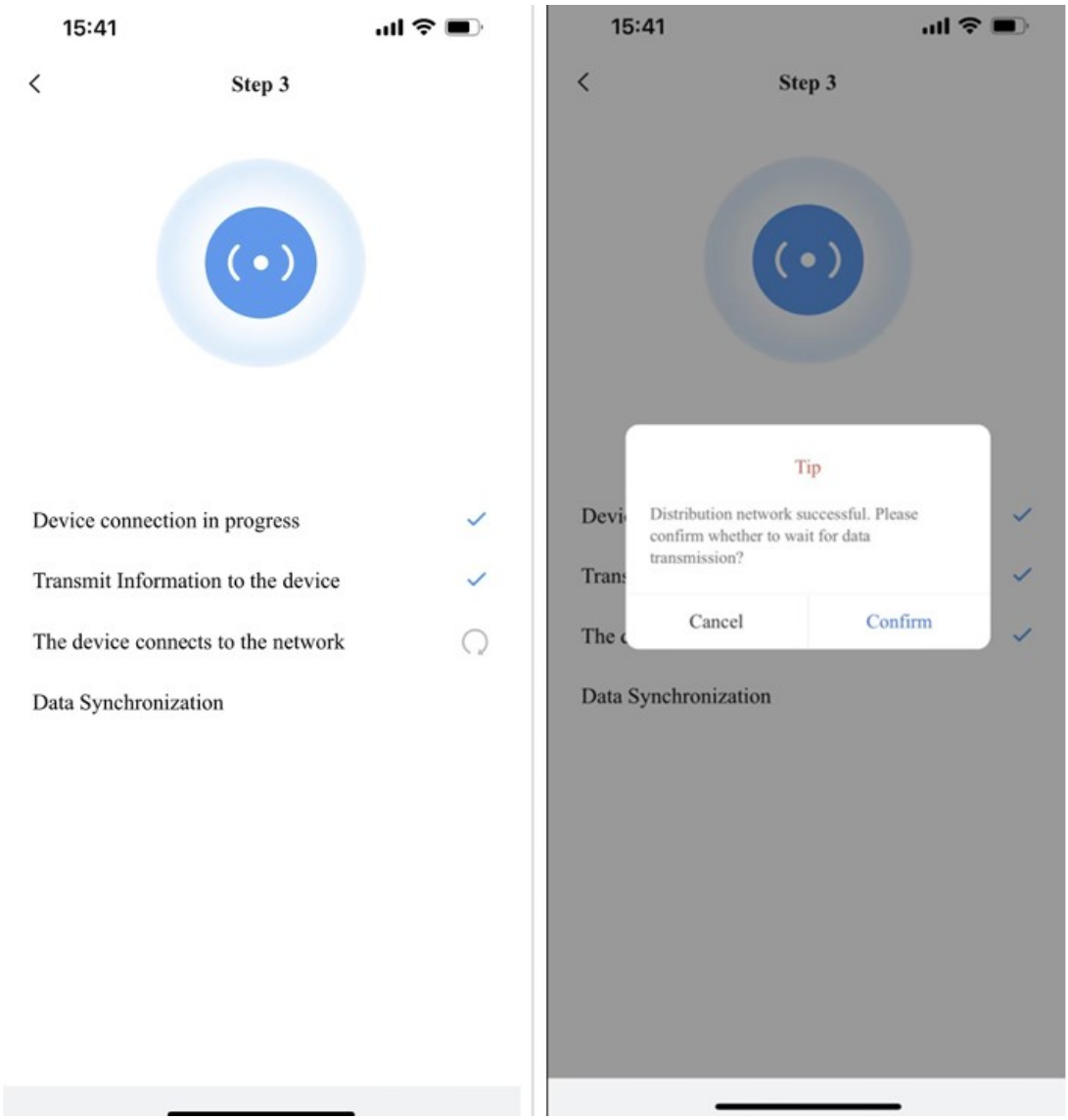
1. Device Connection:The App supports three connection methods:"device QR code scanning", "manual input(of device information)",and"automatic search(for nearby devices)".



2. Select the WiFi name,enter the WiFi password,and tap the"Confirm"button(iOS users need to tap "Manual Add"for configuration)



3. After completing the WiFi configuration,wait for the device to connect to the cloud.



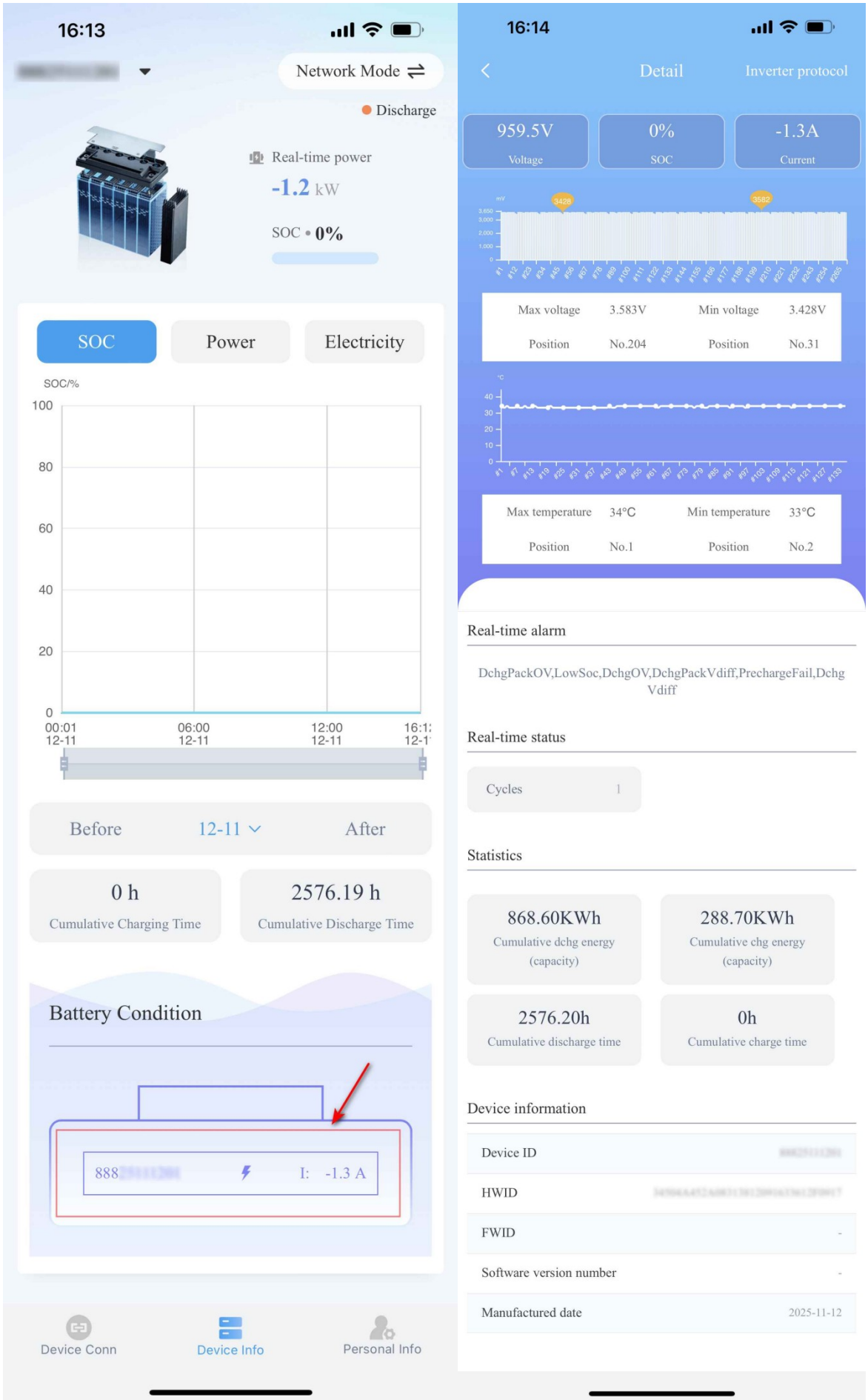
Device Information

Displays key information of the currently managed device,helping users quickly grasp the device overview and improve management efficiency.

Network Mode

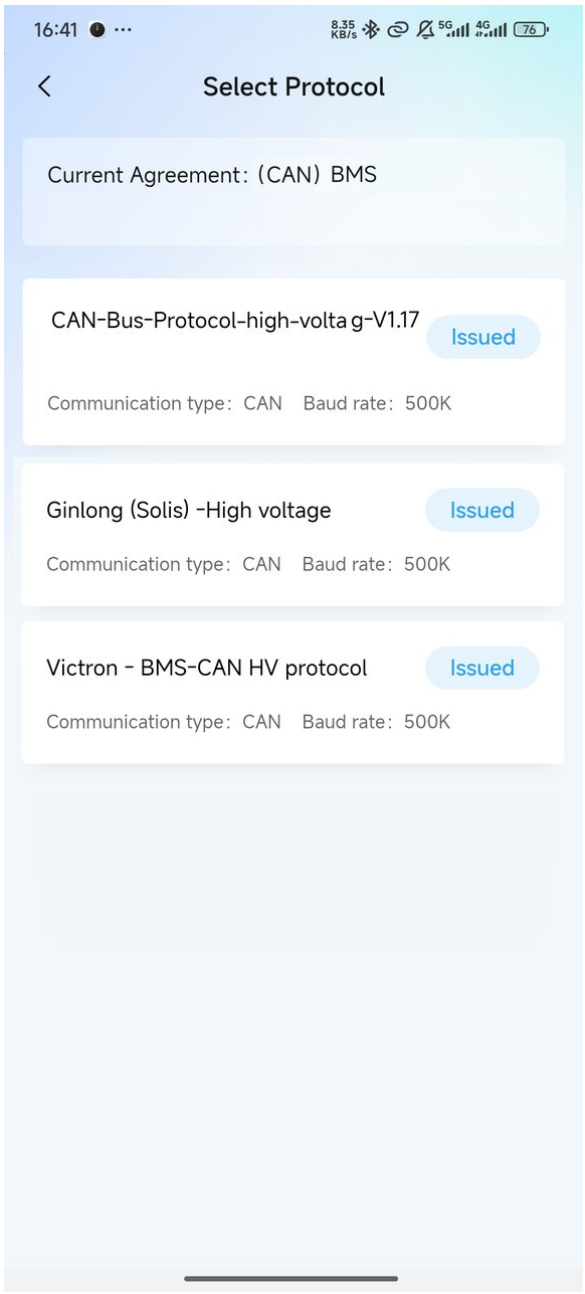
Data Viewing

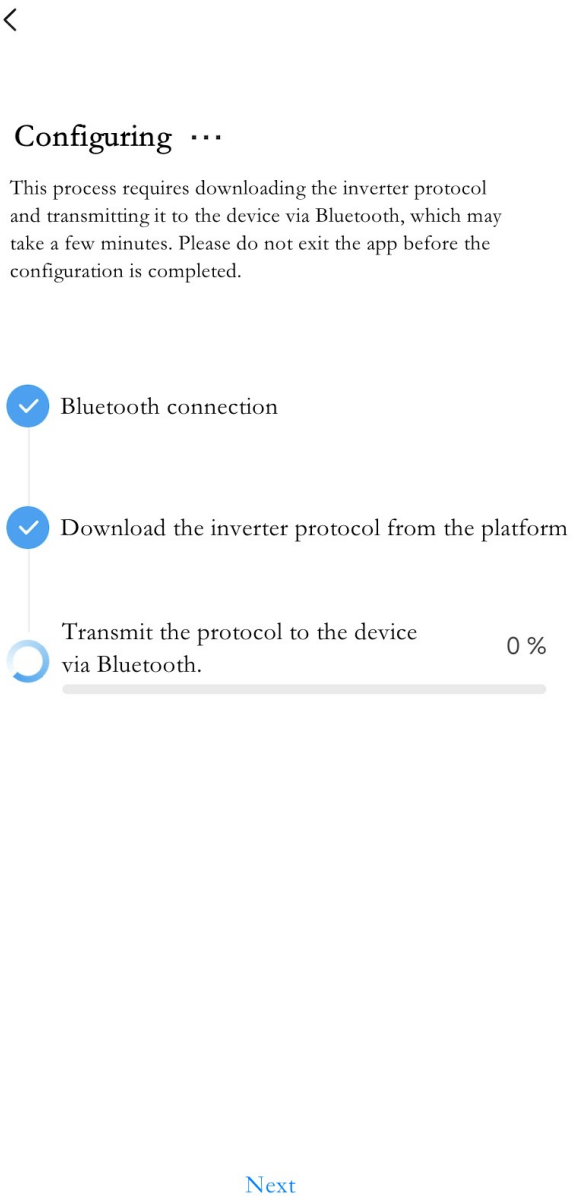
After the device data is reported to the cloud in real time, users can intuitively view the device's real-time operating data on the mobile phone. Tap the "device ID under the battery status module"to view detailed information about the battery.


16:13
Network Mode
Discharge
Real-time power
-1.2 kW
SOC • 0%
SOC
Power
Electricity
SOC/%
100
80
60
40
20
0
00:01 12-11
06:00 12-11
12:00 12-11
Before
12-11
After
0 h
Cumulative Charging Time
2576.19 h
Cumulative Discharge Time
Battery Condition
I: -1.3 A
Device Conn
Device Info
Personal Info
16:14
Detail
Inverter protocol
959.5V
Voltage
0%
SOC
-1.3A
Current
Max voltage 3.583V
Min voltage 3.428V
Position No.204
Position No.31
Max temperature 34°C
Min temperature 33°C
Position No.1
Position No.2
Real-time alarm
DchgPackOV,LowSoc,DchgOV,DchgPackVdiff,PrechargeFail,DchgVdiff
Real-time status
Cycles 1
Statistics
868.60KWh
Cumulative dchg energy (capacity)
288.70KWh
Cumulative chg energy (capacity)
2576.20h
Cumulative discharge time
0h
Cumulative charge time
Device information
Device ID
HWID
FWID
Software version number
Manufactured date 2025-11-12

Inverter Protocol

On the upper right corner of the "Network Mode - Battery Details" page, tap the "Inverter Protocol" button to start the protocol switching process.

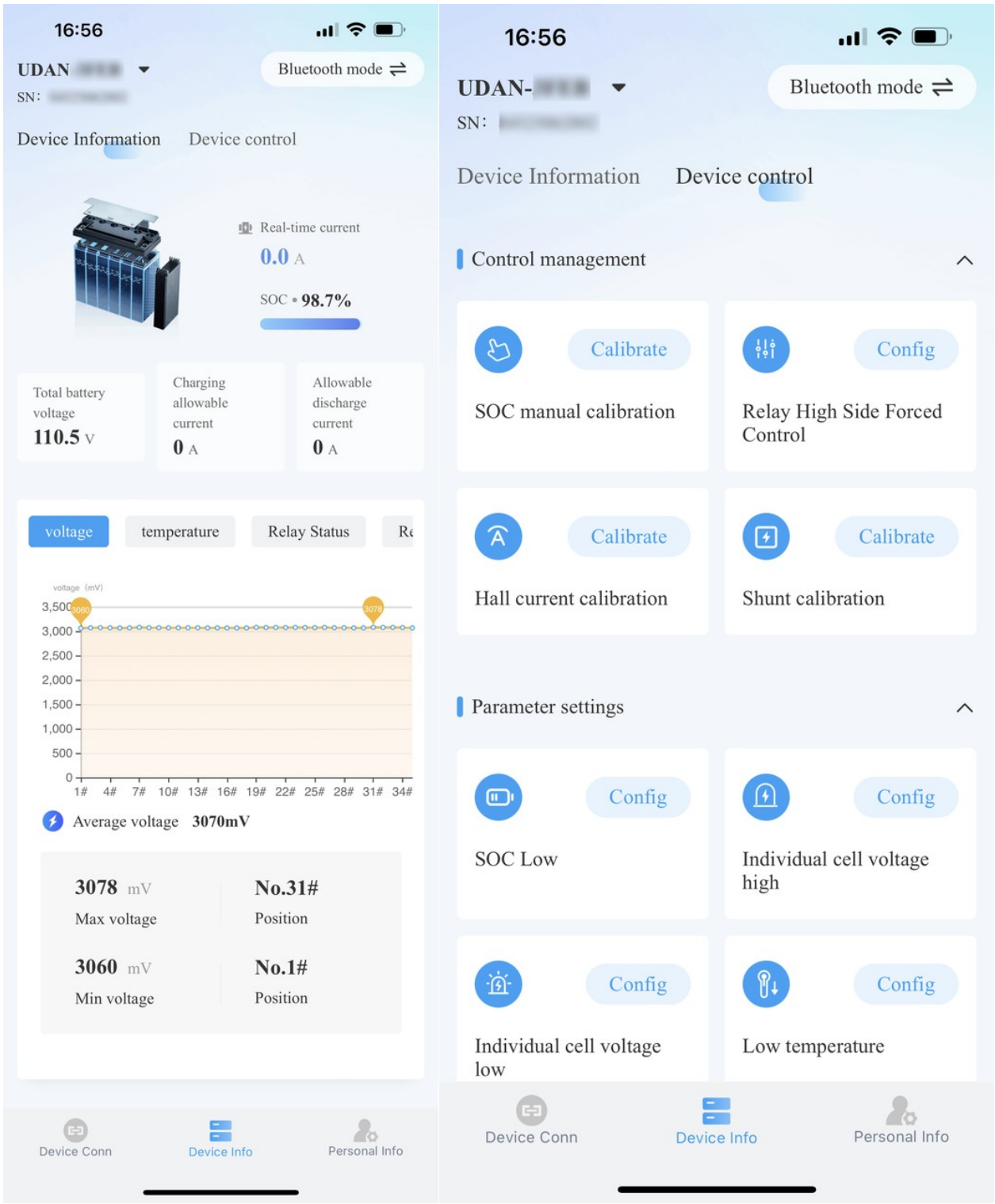




Bluetooth Mode

Viewing & Control

After establishing a Bluetooth connection with the device, users can obtain and view the device's real-time operating data under "Device Information", and perform control operations under "Device Control", meeting operation and maintenance needs in network-free scenarios.

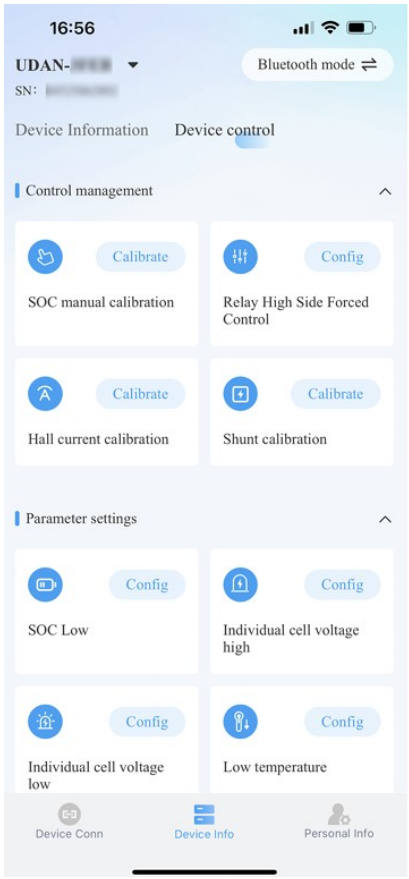


PCS Protocol Switching

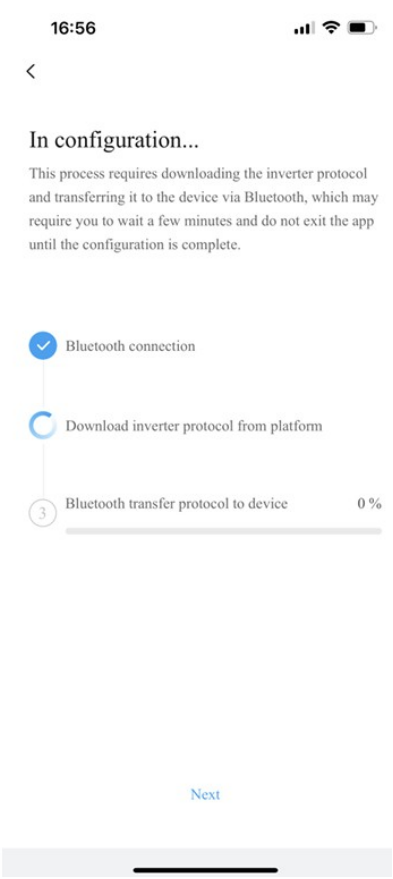
Preparation before protocol switching: Confirm that the device and APP are in Bluetooth connection mode.

1. Find and enter the "Device Control" function in the interface, then tap the "PCS Protocol Switch - Configuration" button.

2. According to actual usage needs, tap the "Issue" button corresponding to the target protocol from the displayed protocol options.
3. The system will then pop up a secondary confirmation prompt. After the user confirms, the PCS protocol switching will be completed.







Personal Information

The Personal Information section provides a series of functions and services to facilitate users in managing devices and certain settings.

Function	Description
My Devices	Displays the IDs of currently managed devices; supports switching between devices and unbinding devices that no longer need to be managed.
Bind Device	Supports adding new devices via QR code scanning to quickly complete the binding of the device to the account.
Password	Allows users to independently modify the account login password,

Modification	enhancing the security of account information.
Multi - Language	Provides a multi - language switching function to select the APP interface language that suits the user.
Check for Updates	Displays the current version number of the APP; tapping it triggers a version check. If an updated version exists, the APP will be updated.
Help & Feedback	Includes a FAQ (Frequently Asked Questions) module and supports submitting problem feedback.
Account Cancellation	Provides an account cancellation function. Users can submit a cancellation application and complete the account cancellation process according to the steps.
Logout	Allows users to log out of the current account and return to the login page.

5 Battery Monitor software

You can get the battery monitor software from after-sales department.

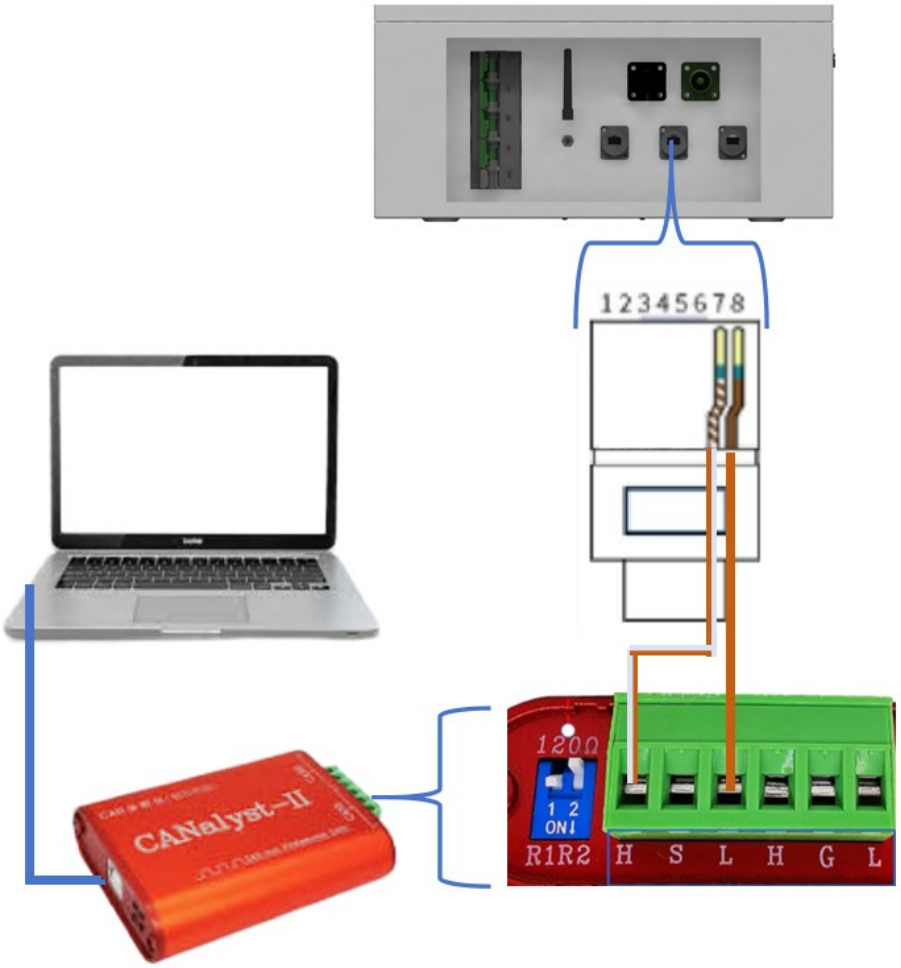
High Voltage Can Box Production

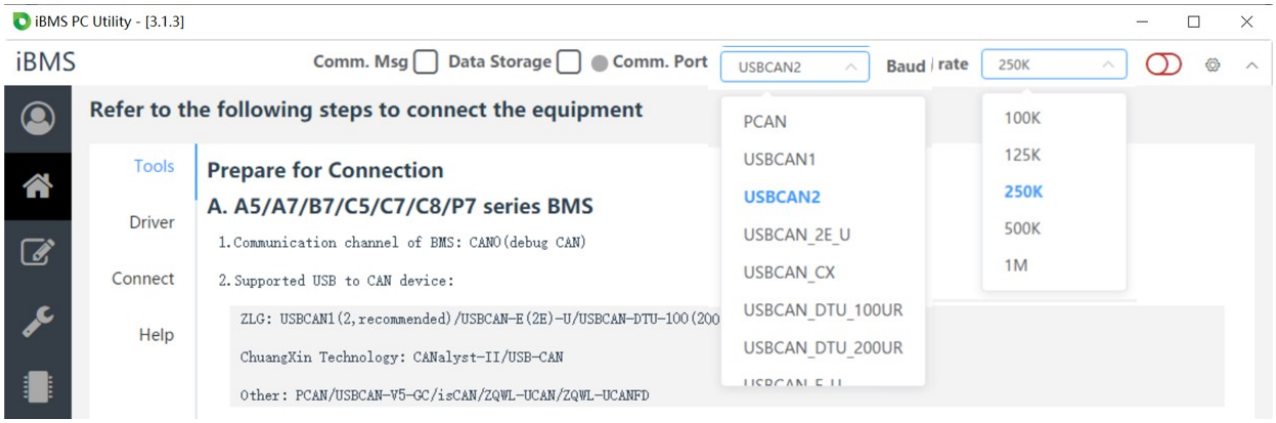
Please refer to the following images to properly connect the HV Can Box to the computer and battery..

(The driver required for the Can Box should be obtained from after-sales personnel or distributors.)

Use the Ethernet cable provided by the HV Control Box for the setup:

1. Connect the seventh pin of the Ethernet cable to the first port (H) of the Can Box.
2. Connect the eighth pin of the Ethernet cable to the third port (L) of the Can Box.
3. Insert the RJ45 Plug into the IN (Parallel IN) interface of the HV Control Box.
4. Connect the USB port of Can Box to the computer.





1. Install the software and drivers provided by the supplier.
2. As shown in the figure, select **USBCAN_CX** (if you are using the CAN box provided by the supplier) and set the baud rate to **250K.**
3. Click the button to connect to the host computer.

Then you can see the whole information.If you encounter any issues while using this software, please contact after-sales personnel or a recommended distributor. We will provide technical support.

