

HC-UPSRB5

HC-UPSRB10

HC-UPSRB16

Residential Series User Manual



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www.ihuapower.com
Zhejiang Hua Power Co.,Ltd

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1. Product Scope

This product is a residential energy storage battery series suitable for outdoor use. The following are the environmental requirements:

Application Environment General Requirements are as follows:

Before installation and operation, please ensure the storage environment meets the following conditions:

1. The equipment must be placed in a packaging box with desiccant inside;
2. Storage SOC: 30%~50%. No charging/discharging required within three months.
3. Storage Temperature: Store at -20 to 45°C for no more than 1 month; at 0 to 35°C for no more than 1 year.
4. Humidity: 0 - 95% (non-condensing). Do not install battery interfaces with condensation present;
5. Place the equipment in a cool, shaded area away from direct sunlight;
6. Keep the storage warehouse away from flammable, explosive, and corrosive materials;
7. Avoid exposing the equipment to direct sunlight.
8. The protection rating of this product series is IP54.

2. Goods Inspection

2.1 Unloading

	HC-UPSRB5	HC-UPSRB10	HC-UPSRB16
Weight	48kg	87kg	117kg
Packaging	UN Wooden Crate		

This Series Product Weight As shown above, packaged in wooden crates. There are two unloading methods:

1. Manual Handling

Handlers must wear protective gloves to avoid splinters. Handling requires 2 person(s) to slowly lift, move, and gently place on a trolley/flat ground. Do not place on feet.

2. Forklift Handling

Customers may also use a small manual forklift for unloading. The crate bottom has forklift slots.

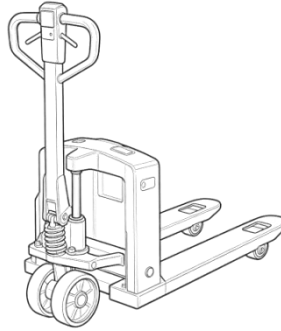
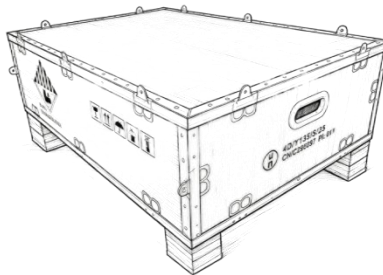


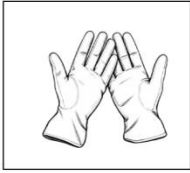
Figure 2-1 Hand Forklift Diagram

2.2 Product Inspection

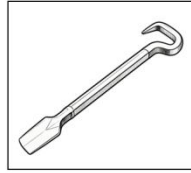
⚠️ Product inspection is mainly visual. If satisfactory, proceed. If damage or deformation is found, contact sales for verification first. All inspections below follow this principle.

Step 1. Packaging Inspection

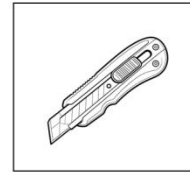




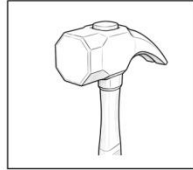
Protective Gloves
Prevent hand injuries.



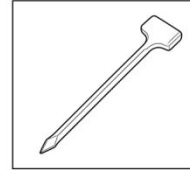
Claw Pry Bar (Nail Puller)
Pulls nails and pries wooden boards.



Utility Knife
Open the Carton and cut the packing strap.



Sledge Hammer / Octagonal Hammer
Loosens wooden boards and knocks nails loose.



Pry Bar (Flat Pry)
Reaches into gaps to pry open wooden slats.

Figure 2-3Unpacking Tools Diagram

Step 3. Appearance Inspection

After removing the crate, check for paint peeling, dents, cracks, or deformation. Verify interfaces are intact, fixing parts are secure, and nameplates are clear. Continue only after confirming all exterior conditions are normal.

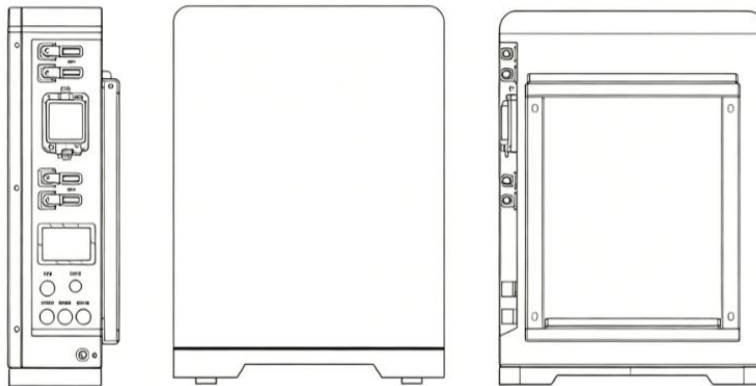


Figure 2-4-1 HC-UPSRB5 Appearance Diagram

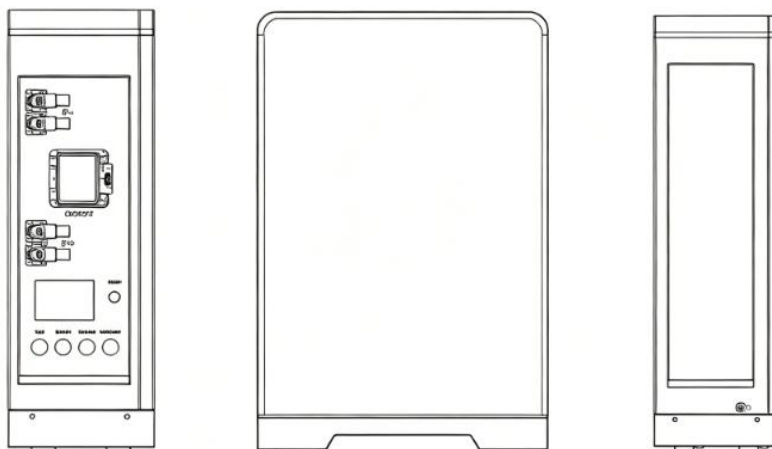


Figure 2-4-2 HC-UPSRB10 Appearance Diagram

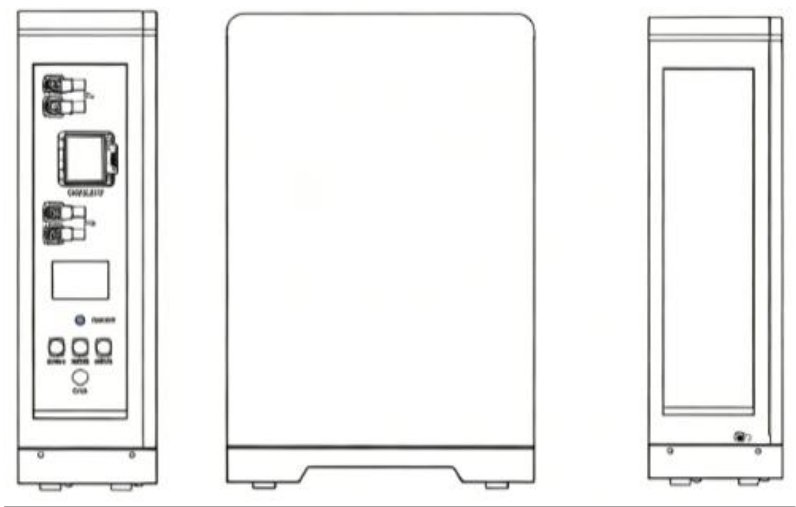
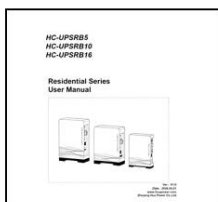


Figure 2-4-3 HC-UPSRB16 Appearance Diagram

Step 4. Packing List

Accessories are generally placed inside the box unless specified otherwise. As shown below, please remove accessories for verification. Keep all accessories properly; lost items will not be replaced.



User Manual



Certificate of Conformity & Warranty Card



Expansion Bolt



Communicate Cable



DC Power Cord

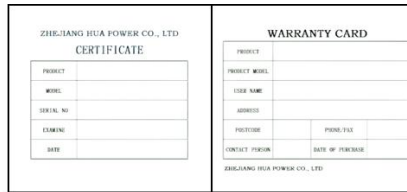
Figure 2-5-1 HC-UPSRB5 Accessory Diagram

TABLE 2-1-1 HC-UPSRB5 ACCESSORY LIST REFERENCE

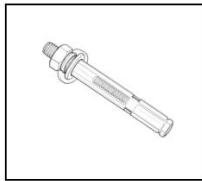
NO.	ACCESSORY NAME	QTY	PURPOSE
1	Positive/Negative Power Cable, 1.2m	2	Connect to Inverter DC+ and DC-
2	RJ45 Communication Cable, 1.5m	1	Connect Inverter and BMS Communication
3	Expansion Screws	4	Wall Mounting
4	User Manual	1	/
5	BMS Serial Number	1	After-sales Traceability, affixed to product housing at factory
6	Certificate of Conformity & Warranty Card	1	After-sales Traceability



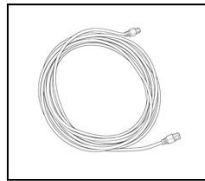
User Manual



Certificate of Conformity & Warranty Card



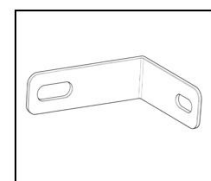
Expansion Bolt



Communicate Cable



DC Power Cord

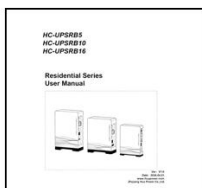


Fixing Accessories

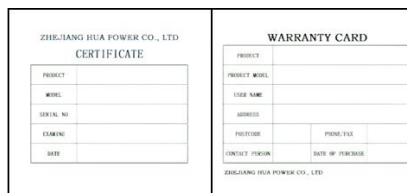
Figure 2-5-2 HC-UPSRB10 Accessory Diagram

TABLE 2-1-2 HC-UPSRB10ACCESSORY LIST REFERENCE

NO.	ACCESSORY NAME	QTY	PURPOSE
1	Positive/Negative Power Cable, 1m	2	Connect to Inverter DC+ and DC-
2	RJ45 Communication Cable, 1.5m	1	Connect Inverter and BMS Communication
3	Expansion Screws	1	Wall Mounting
4	Mounting Bracket	1	Mounting Accessories
5	User Manual	1	/
6	BMS Serial Number	1	After-sales Traceability, affixed to product housing at factory
7	Certificate of Conformity & Warranty Card	1	After-sales Traceability



User Manual



Certificate of Conformity & Warranty Card



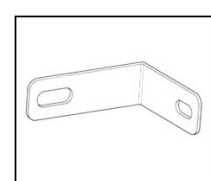
Expansion Bolt



Communicate Cable



DC Power Cord



Fixing Accessories

Figure 2-5-2 HC-UPSRB16 Accessory Diagram

TABLE 2-1-3 HC-UPSRB16ACCESSORY LIST REFERENCE

NO.	ACCESSORY NAME	QTY	PURPOSE
1	Positive/Negative Power Cable, 0.8m	2	Connect to Inverter DC+

			and DC-
2	RJ45 Communication Cable, 1.5m	1	Connect Inverter and BMS Communication
3	Expansion Screws	1	Wall Mounting
4	Mounting Bracket	1	Mounting Accessories
5	User Manual	1	/
6	BMS Serial Number	1	After-sales Traceability, affixed to product housing at factory
7	Certificate of Conformity & Warranty Card	1	After-sales Traceability

All inspection is complete. Proceed to the next step of product wiring.

3. Electrical Wiring

3.1 Electrical Safety

- ⚠ The battery used with the inverter shall be approved by the inverter manufacturer. The approved battery list can be obtained through the official website.
- ⚠ A short circuit in the battery may cause personal injury. The instantaneous high current caused by a short circuit can release a large amount of energy and may cause a fire.
- ⚠ Before connecting the battery cable, ensure the inverter and the battery, and downstream&upstream switches, are all disconnected.
- ⚠ It is forbidden to connect and disconnect the battery cables when the inverter is running. Otherwise it may cause electric shock.
- ⚠ Do not connect one battery pack to more than one inverter at the same time. Otherwise, it may cause damage to the inverter.
- ⚠ It is forbidden to connect loads between the inverter and batteries.
- ⚠ When connecting battery cables, use insulated tools to prevent accidental electric shock or short circuit to the batteries.
- ⚠ Ensure that the open circuit voltage of the battery is within the permissible range of the inverter.
- ⚠ Install a DC switch between the inverter and the battery
- ⚠ A dedicated AC circuit breaker must be installed before the AC input. Do NOT mix up AC IN (GRD) and AC OUT (GRN) terminals.
- ⚠ Correct L/N polarity is required. Input and output neutral wires must NOT be connected together.
- ⚠ Use only the recommended cable sizes as specified.
- ⚠ Keep metal tools away from batteries to avoid sparks, short circuits, or explosions.
- ⚠ Do not connect to the grid if the DC side is shorted.
- ⚠ All electrical installations must comply with local electrical safety codes and standards.

3.2 Pre-Wiring Preparation

3.2.1 Interface Description

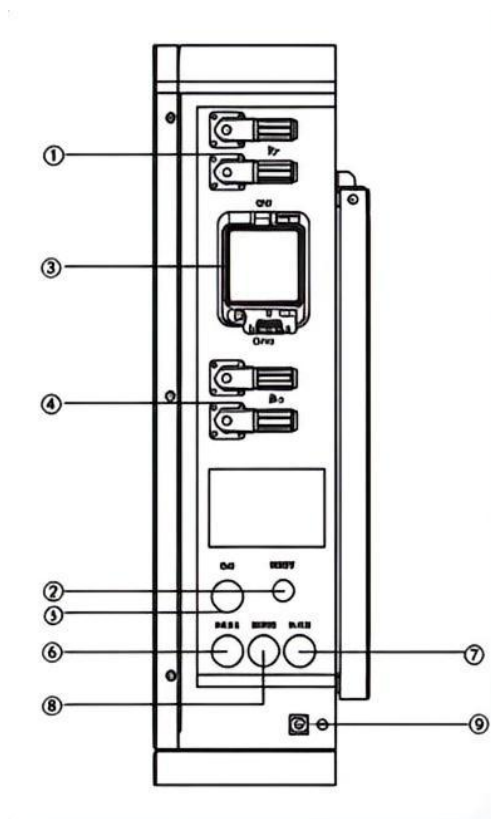


Figure 3-1 HC-UPSRB5 Interface Diagram

No.	Interface	Description
①	Negative Terminal	Parallel Inverter DC- or Battery Pack-
②	Metal Button	Used for system start/stop operation
③	Miniature Circuit Breaker	Used for DC-side protection of lithium battery and inverter
④	Positive Terminal	Parallel Inverter DC+ or Battery Pack+
⑤	CAN Communication Port	Used for parameter modification and program upgrade on host
⑥	RS485	Used for communication between inverters
⑦	RS485OUT	Used for device communication output during parallel operation
⑧	RS485IN	Used for device communication input during parallel operation

⑨	Grounding Terminal	Used for equipment chassis grounding
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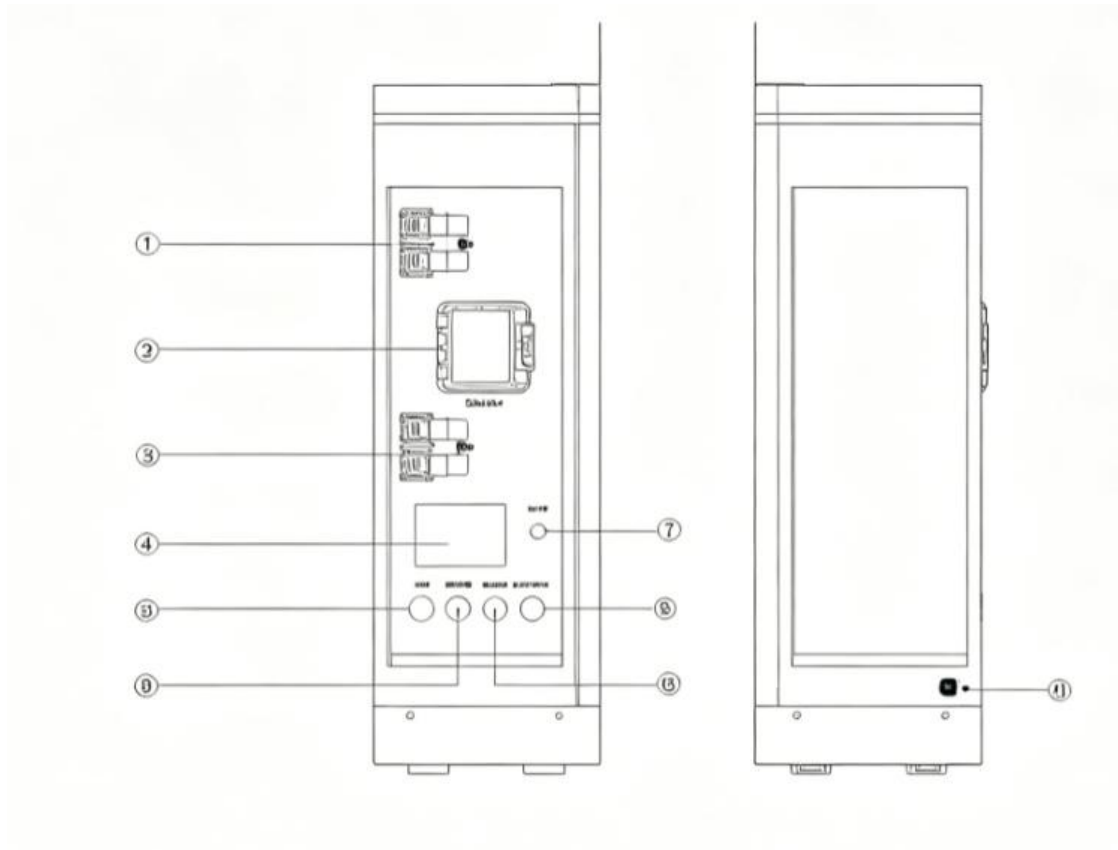


Figure 3-2 HC-UPSRB10 Interface Diagram

No.	Interface	Description
①	Negative Terminal	Parallel Inverter DC- or Battery Pack-
②	Miniature Circuit Breaker	Used for DC-side protection of lithium battery and inverter
③	Positive Terminal	Parallel Inverter DC+ or Battery Pack+
④	LCD Screen	Used for monitoring device status
⑤	CAN Communication Port	Used for parameter modification and program upgrade on host
⑥	RS485	Used for communication between inverters
⑦	Metal Button	Used for system start and stop operation
⑧	RS485OUT	Used for device communication output during parallel operation

⑨	RS485IN	Used for device communication input during parallel operation
⑩	Grounding Point	Used for equipment chassis grounding

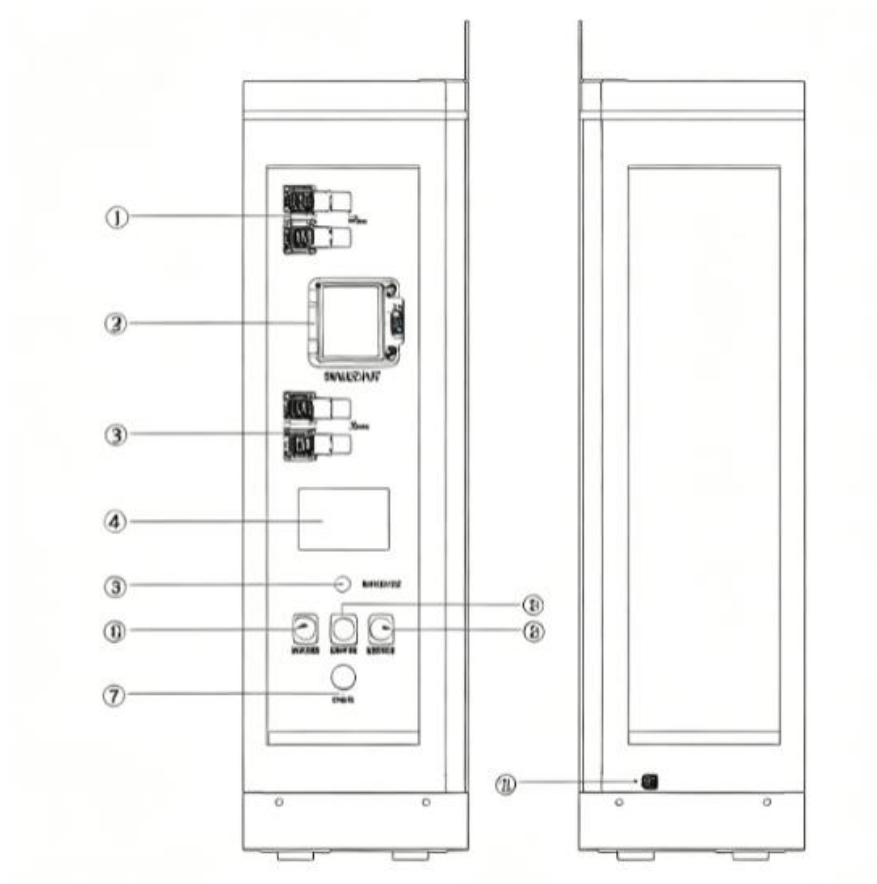


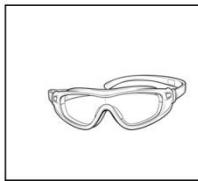
Figure 3-3 HC-UPSRB16 Interface Diagram

No.	Interface	Description
①	Negative Terminal	Parallel Inverter DC- or Battery Pack-
②	Miniature Circuit Breaker	Used for DC-side protection of lithium battery and inverter
③	Positive Terminal	Parallel Inverter DC+ or Battery Pack+
④	LCD Screen	Used for monitoring device status
⑤	Metal Button	Used for system start and stop operation
⑥	RS4851	Used for communication between inverters

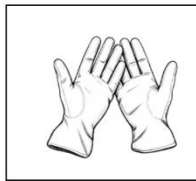
⑦	CAN Communication Port	Used for parameter modification and program upgrade on host
⑧	RS485IN	Used for device communication input during parallel operation
⑨	RS485OUT	Used for device communication output during parallel operation
⑩	Grounding Point	Used for equipment chassis grounding

3.3 Wiring Tools Preparation

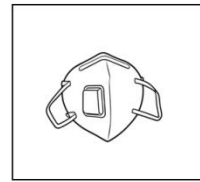
3.3.1 Personal Protective Equipment



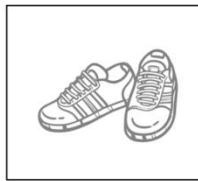
Protective Glasses
Prevent eyes injuries.



Protective Gloves
Prevent hand injuries.



Dust Mask
Prevent dust from contaminating the nose and mouth.



Protective Shoes
Prevent electric shock.



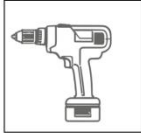
Anti-static wrist strap
Prevent static damage.



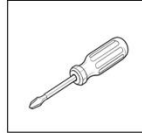
Earplugs
Reduce noise damage.

Figure 3-4 Protective Equipment Reference Diagram

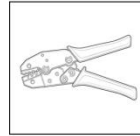
3.3.2 Wiring Tools



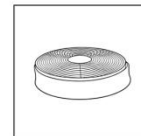
Electric Screw Driver



Cross Screw Driver



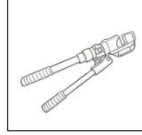
Crimping Tool



Heat-shrinkable Tube



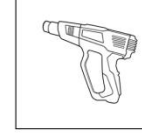
Torque Screwdriver



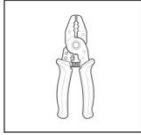
Hydraulic Pliers



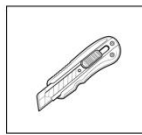
Socket Tool



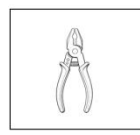
Heat Gun



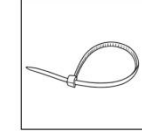
Wire Stripper



Utility Knife



Combination Pliers



Cable Tie

Figure 3-5Wiring Tools Reference Diagram

3.4 System Installation

3.4.1 Battery Installation Steps-HC-UPSRB5

Step1: Determine wall hole positions. Before shipment, the wall bracket is fixed to the battery pack. Customers can determine positions from drawings, or remove the bracket first, place wall bracket near the intended wall position, and mark drilling positions with a marker.

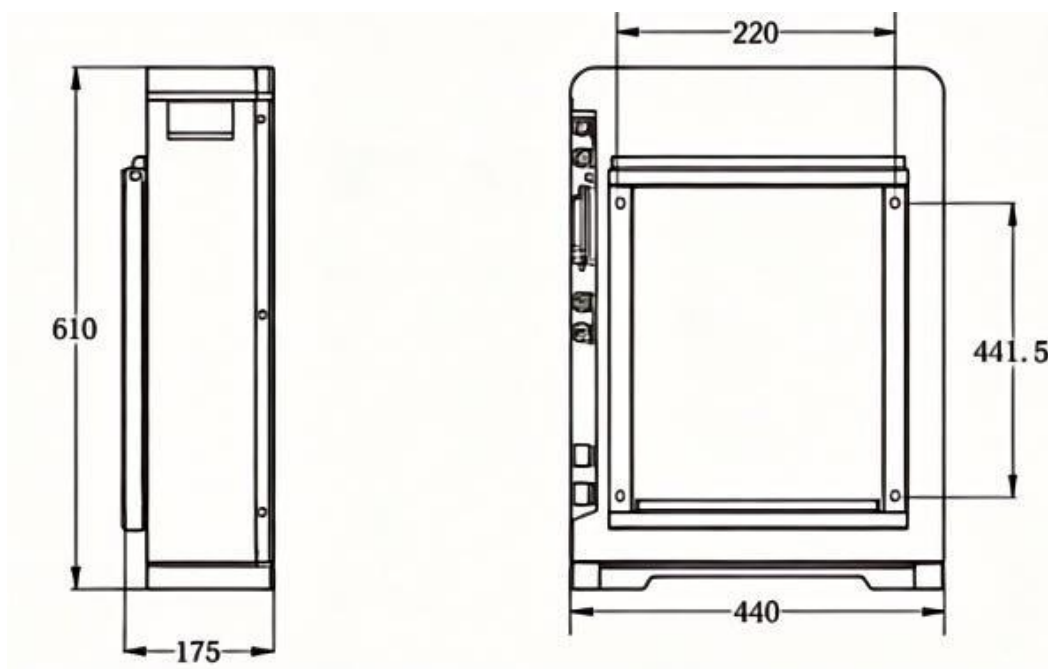


Figure 3-6-1 Installation Dimensions Diagram

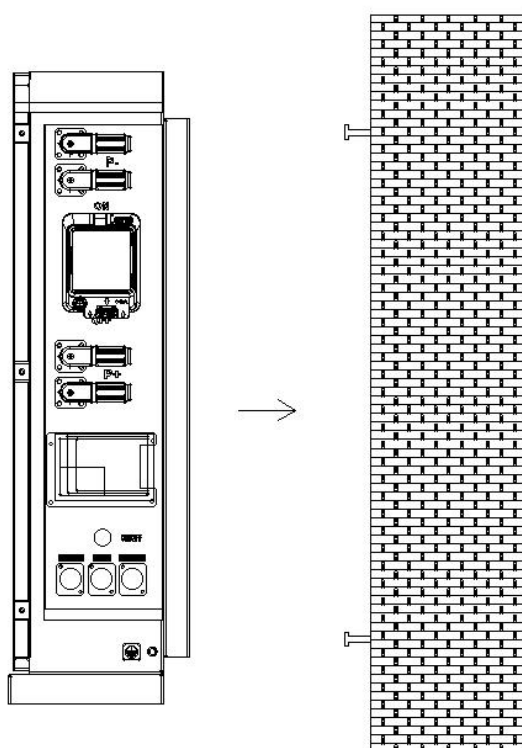


Figure 3-6-2 Installation Diagram

3.4.2 Battery Installation Steps-HC-UPSRB10/HC-UPSRB16

Step1: Place the device on the ground , Use matching bolts to fix L-shaped mounting ears to the top of the battery.

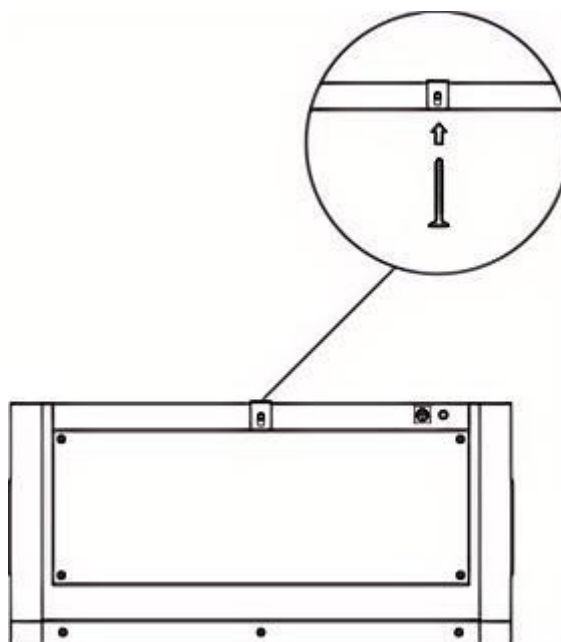


Figure 3-7-1 Mounting Parts Position Diagram

Step2: Place the battery near the intended wall position, and mark drilling positions with a marker

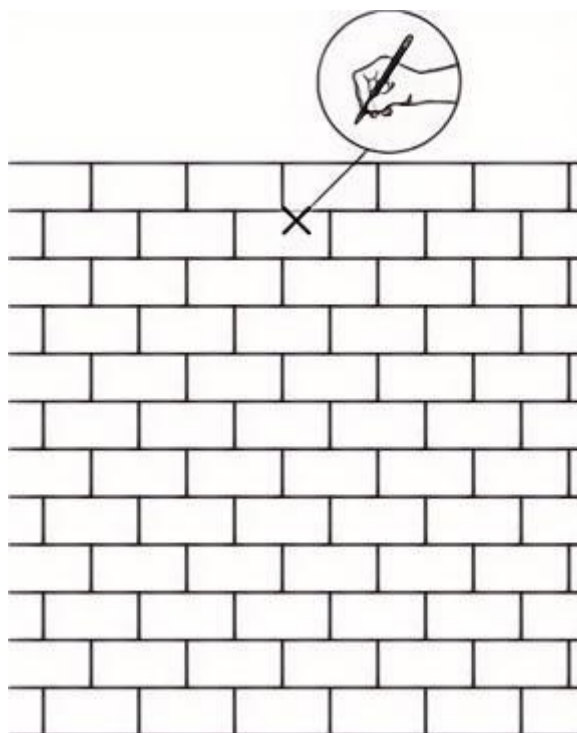


Figure 3-7-2 Installation Diagram

Step3: Use an impact drill to drill at marked positions , Use expansion screws to fix wall-mounted ear pieces to the wall.

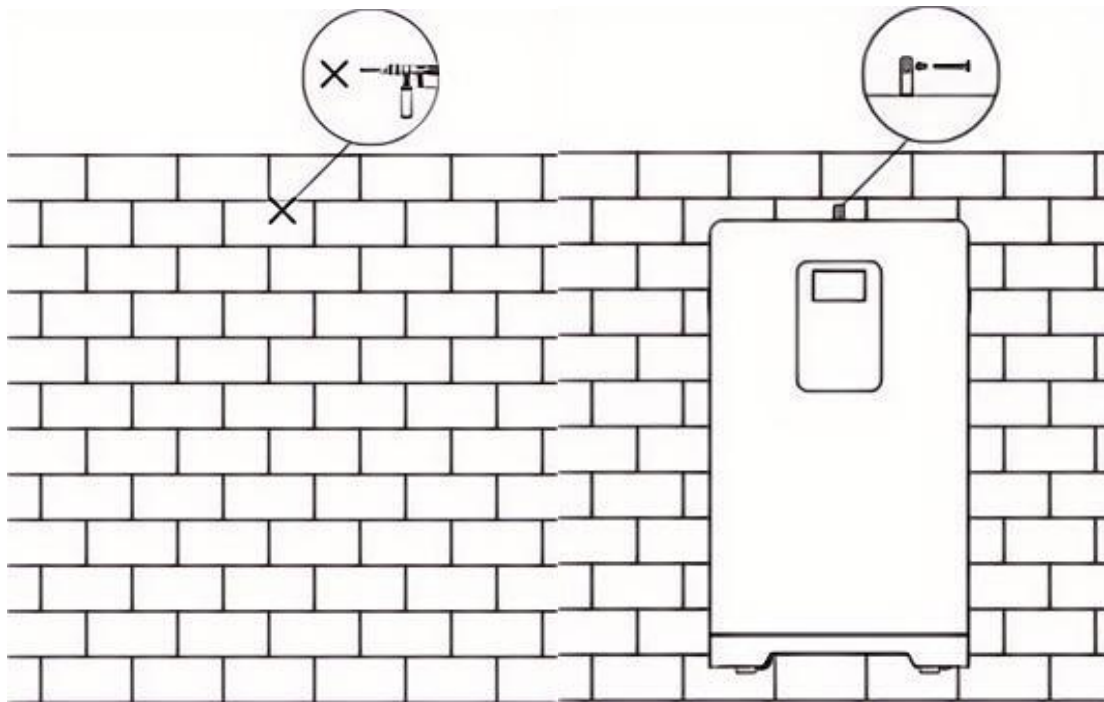


Figure 3-7-3 Installation Diagram

Step4: Gently push the battery in all directions. If stable, installation is complete。

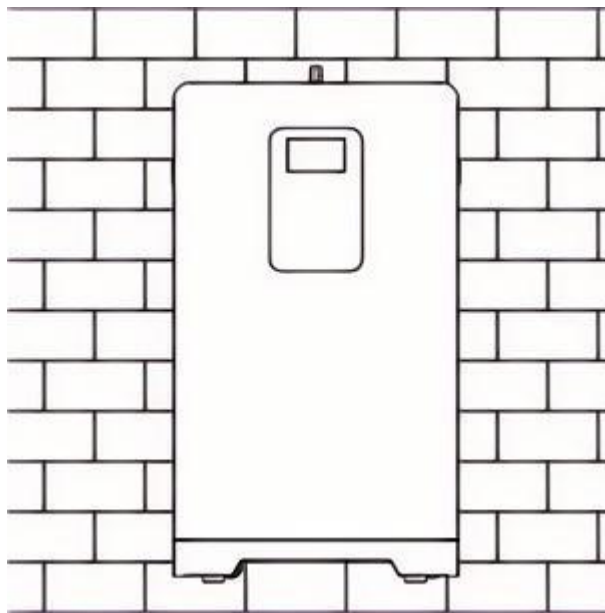
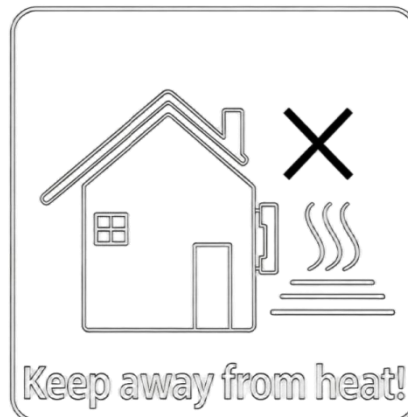
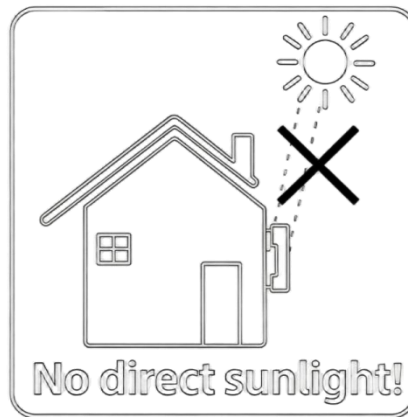
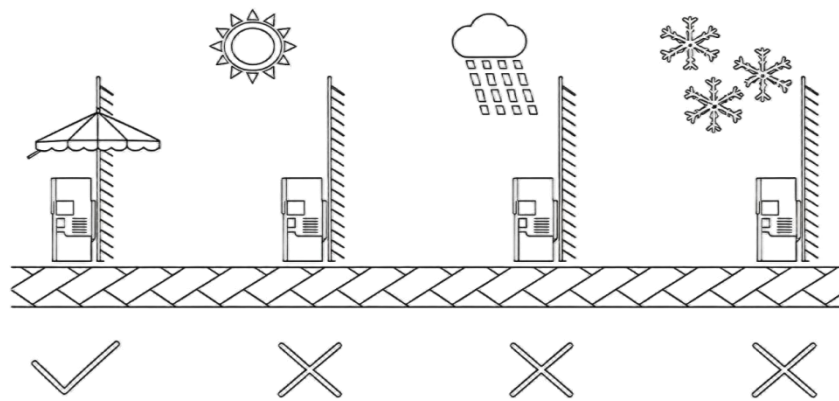


Figure 3-7-4 Installation Diagram

Note: This product has an IP54 protection rating. However, please keep away from deep water, high temperatures, and direct sunlight.



3.5 Wiring

Before wiring, ensure the lithium battery and inverter are disconnected from the power switch; otherwise, an accident may occur.

3.5.1 Single Unit Power Connection

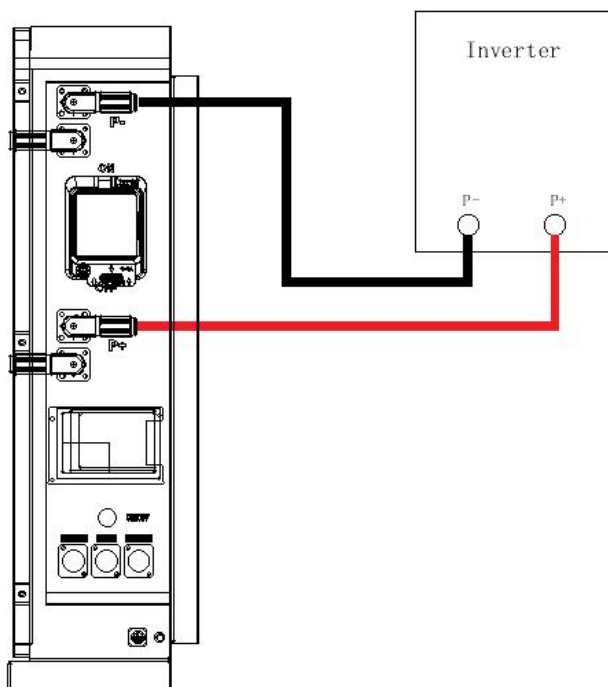


Figure 3-8 Single Unit Power Wiring Diagram

3.5.2 Parallel Power Connection

Step 1: Please prepare two copper busbars in advance (one positive, one negative) to ensure compliant parallel wiring. Drill busbars according to the number of parallel units, with hole sizes matching power cable terminal lugs.

The 5kWh power cable generally uses SC25-8 terminals, while 10kWh and 16kWh use SC35-8 terminals. Please confirm in advance.

Busbars' thickness and area should be calculated based on the number of parallel units and operating power to determine current-carrying capacity.

Step 2: Connect all parallel battery pack positives and inverter positive to the positive busbar. Connect all negatives to the negative busbar.

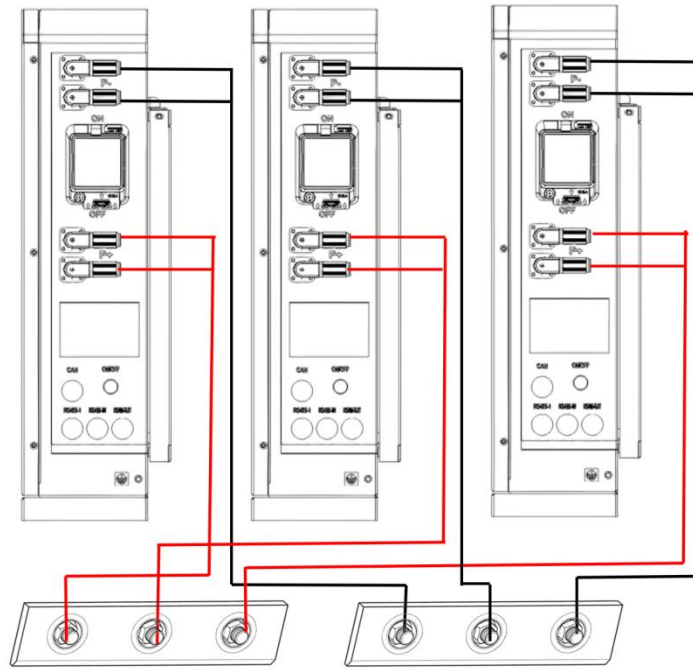


Figure 3-9 Three-Unit Parallel Power Connection Diagram

Step 3: Determine operating power based on inverter rating and actual load. Drill additional holes on both busbars for current collection based on terminal lug sizes. Connect distribution box terminals to battery busbars. Match wire gauge to actual power.

Step 4: Add a miniature circuit breaker between the distribution box and inverter.

Step 5: Lead positive and negative wires from the distribution box to the inverter Bat port.

3.5.3 Single Unit Communication Connection

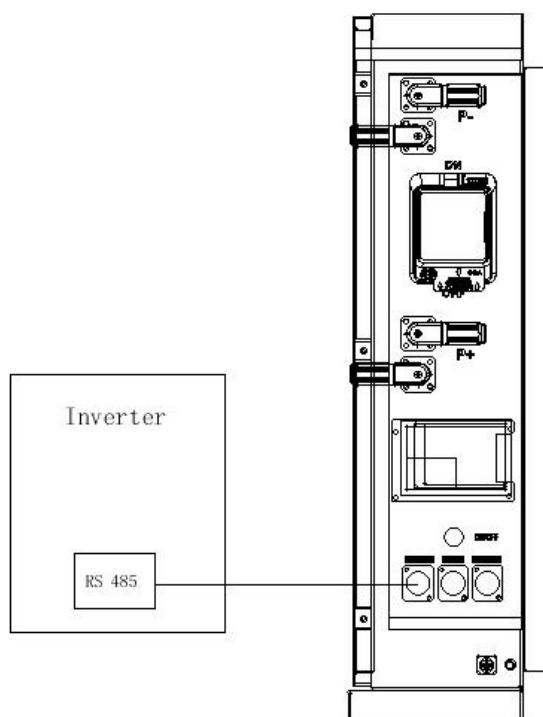


Figure 3-10 Communication Connection Diagram (CAN can also be used)

3.5.4 Parallel Communication Connection

Step 1: Ensure all parallel batteries are in shutdown state.

Step 2: The maximum parallel units is 15. For n units ($n \leq 15$), $n-1$ parallel cables are needed. Please purchase RJ45 connectors and network cables in advance. The parallel cable uses two 8-pin RJ45 connectors. Pin definitions are as follows:

Table 1 Parallel Cable Pin Definitions		
PIN No.	Interface	Description
1、 8	RS485-B	485_B / 485-, either one
2、 7	RS485-A	485_A / 485+, either one
3、 4、 6	GND	GND, any one of three
5	DN_OP+	Required
9、 16	RS485-B	485_B / 485-, either one
10、 15	RS485-A	485_A / 485+, either one
11、 12、 14	GND	GND, any one of three
13	UP_IN	Required

Step 3: Connect Parallel Communication Cables

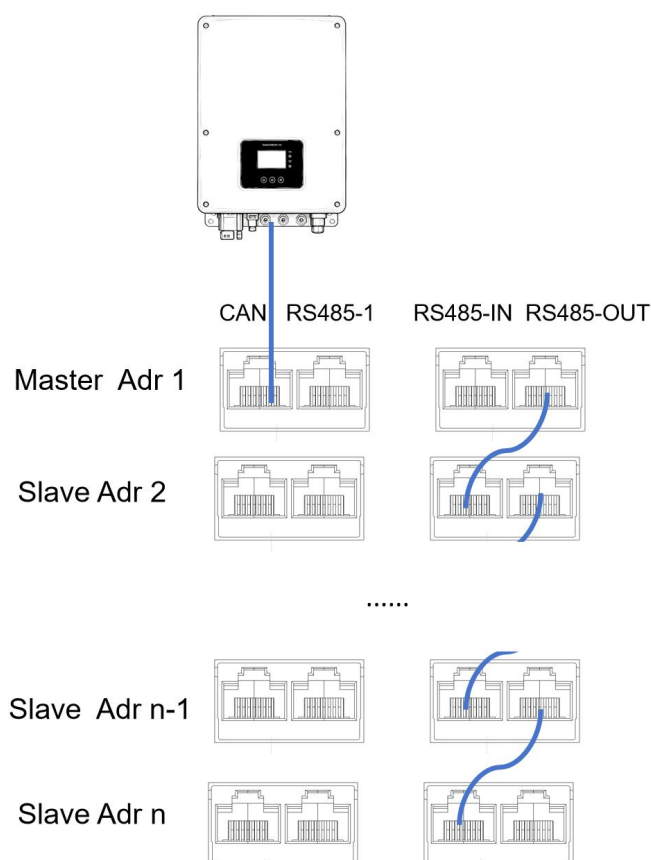


Figure 3-11 Parallel Communication Wiring Diagram

Step 4: DIP Switch Settings

The product is configured with automatic addressing by default (all DIP switches OFF), as shown below. No further operation is needed during use. The DIP switch has no external interface.

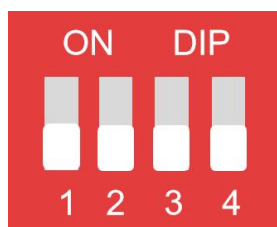


Figure 3-12 Auto Addressing DIP Switch Diagram

After power-on, check the battery host (Battery Unit #1 screen or App). A parallel connection page will appear. Tap to confirm data from each battery pack. Data presence indicates successful parallel connection.

4. System Operation

4.1 Pre-Operation Check

⚠ Before starting operation, please check the following to avoid damaging your system:

- The device is firmly and reliably installed.
- Screw connections are secure.
- The device is reliably grounded.
- Ensure battery polarity is not reversed.

4.2 Power-On Operation

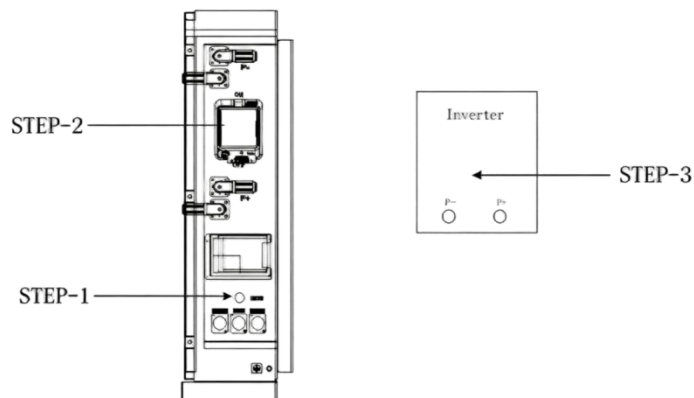
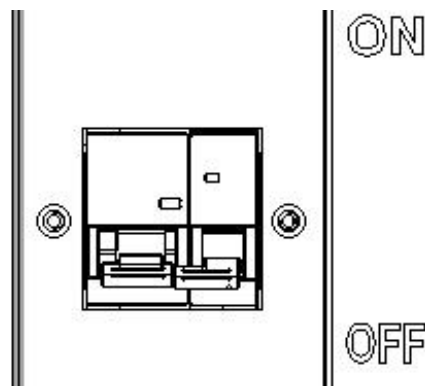


Figure 4-1 Power-On Operation

Step 1: Press the metal button on top of the battery box; the display will light up.

Step2: If on screen not displayed alarm information, then place battery circuit breaker to “ON” position.



Step 3: Close the inverter switch to complete power-on operation.

4.3 Power-Off Operation

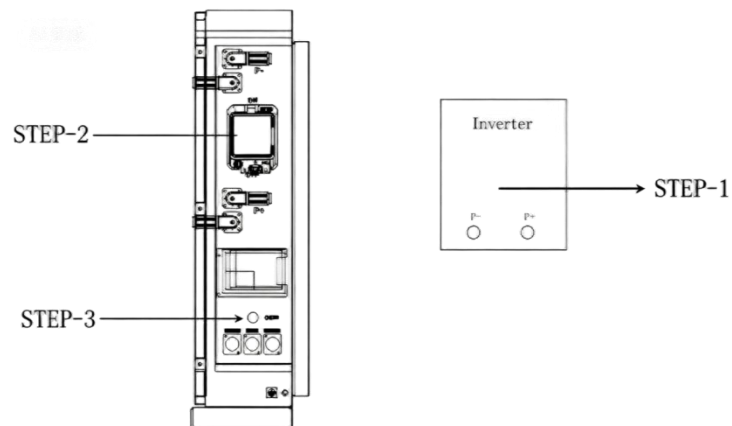


Figure 4-2 Power-Off Operation

Step 1: Disconnect the inverter switch and ensure complete electrical isolation between battery and inverter;

Step 2: place battery circuit breaker to “OFF” position;

Step 3: Press the metal button on top of the battery box and confirm it is in the closed state.

5. APP User Manual

5.1 Download and Installation

Select the download link according to your phone system:

1. Android Entry: Supports GMS phones can download via Google Play Store Download PACEEX App, does not support GMS Android phones can install directly APK

<https://play.google.com/store/apps/details?id=com.paicheng.bms>

2. iOS Entry: In the App Store search for PACEEX Download

<https://apps.apple.com/cn/app/6461723294>

5.2 App Permissions

After installing the APP, tap the launch button to start. The first launch will request the user to confirm and authorize the following permissions:

1. Camera Permission: Used for scanning QR codes to add WiFi devices in remote control mode.
2. Location Permission: Used to search for nearby Bluetooth devices in local control, and to identify current network information in remote control.
3. Status Information: Detects device operating status.
4. Photos and Audio: The QR code scanning interface in remote control can directly access the local photo album.

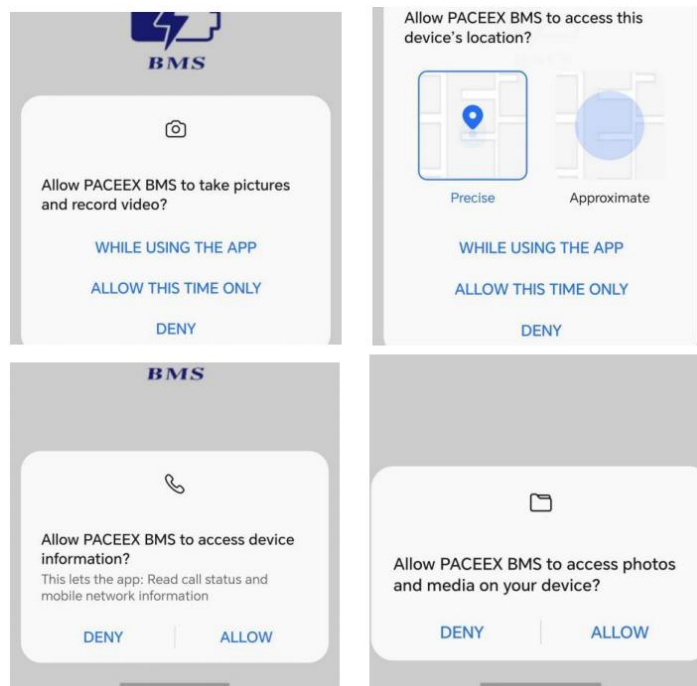


Figure 5-1 Authorizing APP Permissions

5.3 Control Methods

Local Control: BLE Bluetooth communication, directly searches for nearby Bluetooth signals, one-to-one direct connection to control the device. No account login required, no binding

records, ready to use immediately.。

Remote Control: WiFi communication, enabling device control from different locations. Account registration and login required, with binding records. Network configuration operation is required.

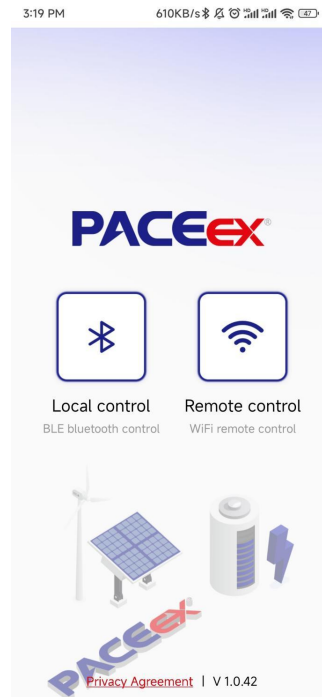


Figure 5-2 Control Method Selection

5.4 Local Control (BLE)

When the device is in pending network configuration state, tap the local control button. The device can be found on the local control page. Tap the device to enter the control page.

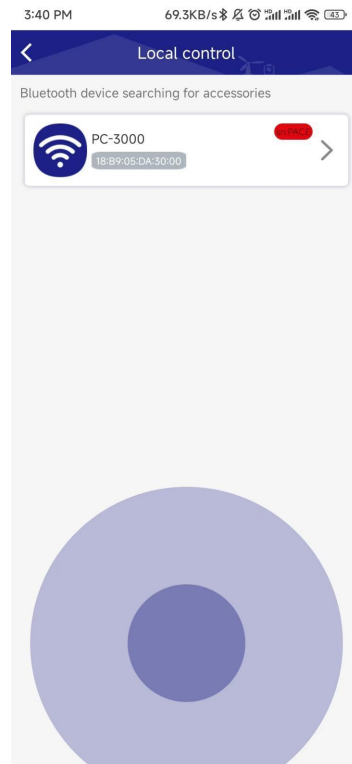


Figure 5-3 Selecting Local Control

5.5 Remote Control

5.5.1 Account Registration and Login

Registration: Create a new account using email, password, and verification code.

Note: Please select the actual country/region based on your situation. This is crucial. Once selected and created successfully, devices added via this account will automatically connect to the matching server node.

Login: Log in with the registered account and password.

Forgot Password: The password can be reset via email.

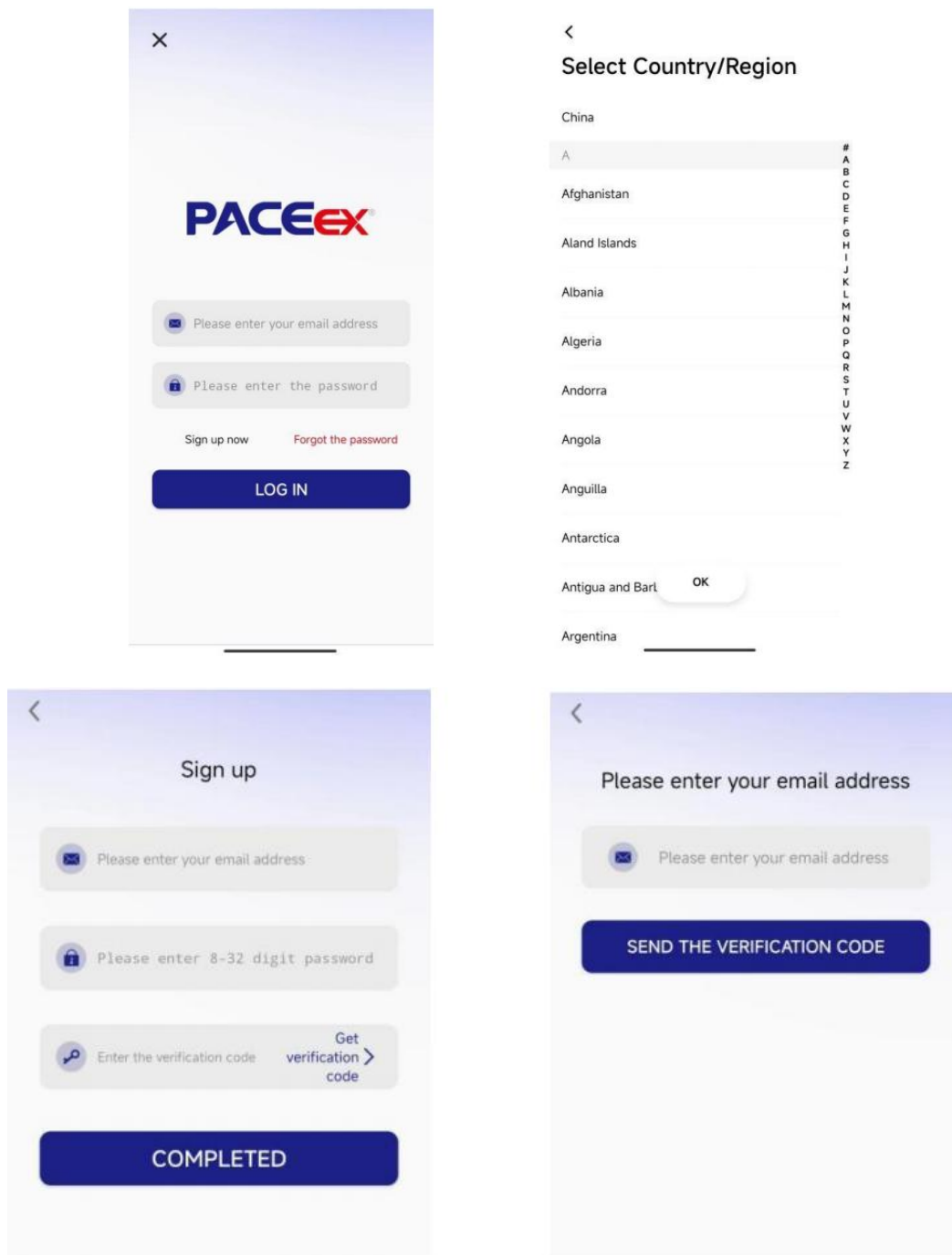


Figure 5-4 Account Registration and Login

5.5.2 Device List

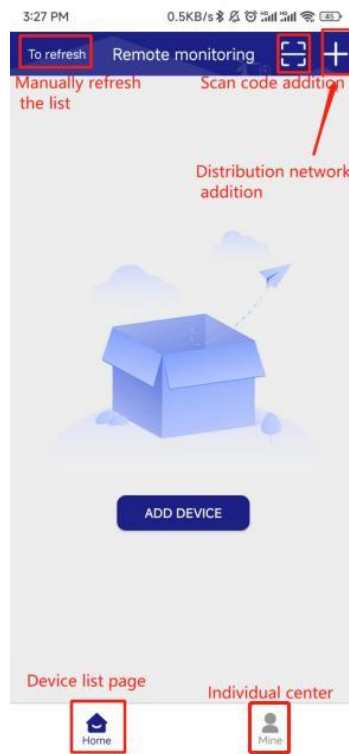


Figure 5-5 Device List

5.5.3 Device Addition

5.5.3.1 WiFi Module Reset

Resetting the WiFi module makes the device discoverable:

Long press the reset button 10-13s. The specific operation is LED: Long press until the running light cycles once, then release when all lights stay on for 5 seconds and then go out.

5.5.3.2 Tap “Add” and “+” enter search page, Search for devices

Note: This Step requires phone to open “Bluetooth” 、 “Location” 、 “WiFi” functions, otherwise place cannot complete search and Subsequent the network configuration operations。

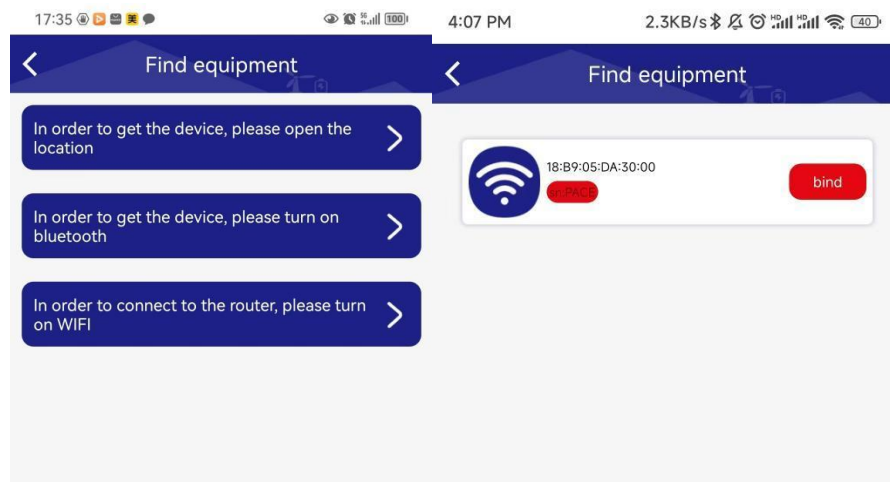


Figure 5-6 Search and Network Configuration

5.5.3.3 Enter Network Configuration

Tap 5.3.2 device found, jump to network configuration page, Enter the device Connection the WiFi account and password, You can also change WiFi, After confirming the password, Tap “next step”, Enter network configuration waiting page.

Note: The phone must be connected to this WiFi first, and the module only supports 2.4G WiFi. Please verify.

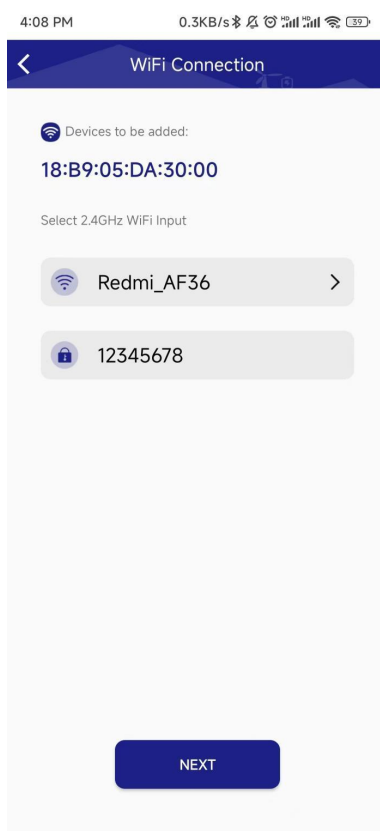


Figure 5-7 Entering Network Configuration

5.5.3.4 Execute Network Configuration

APP and device will automatically execute “Connection device” , “Configure Network” , “device Cloud Connection” , “Bind device” operations, Please be patient.

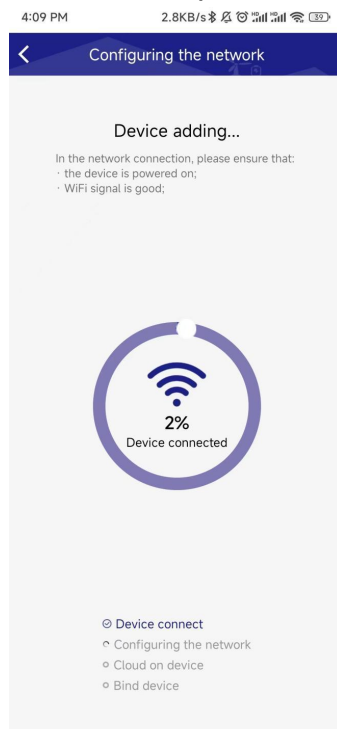


Figure 5-8 Executing Network Configuration

5.5.3.5 Configuration Result

When configuration is complete, the page will jump to the result. Tap Save to add successfully and return to the device list. If configuration fails, follow the APP prompts, check settings, and restart from step 5.3.1. If still failing after multiple attempts, save the error page and contact after-sales.

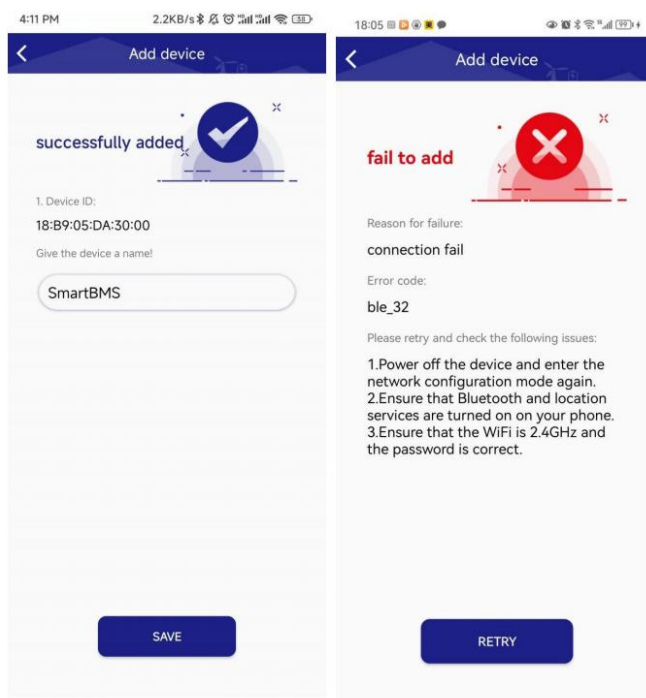


Figure 5-9 Configuration Result Display

5.5.4 Device Editing

Long press a device item; the editing menu will pop up at the bottom.

Rename: Change the device nickname for ease of use.

Delete: Unbind the device. For next use, scan the QR code or add via network configuration again.

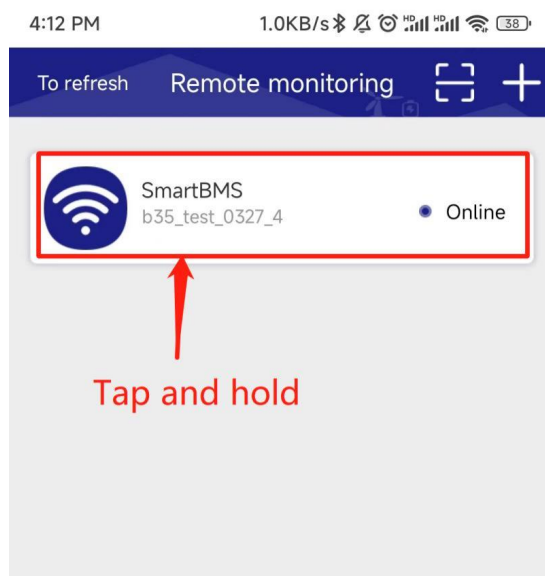


Figure 5-10 Device Editing

5.5.5 Device Sharing

Long press a device item. When you are the device administrator (first network configuration account), you can generate a QR code for other users to scan and add.

Note: Non-administrators cannot share again. Each QR code can only be scanned once, and the scanning time is limited (30 minutes).



Figure 5-11 Device Sharing

5.5.6 Device Control

Except for protocol errors or omissions, the APP has completed the summary interface for: basic data, voltage and temperature, status data, historical data, parameter settings, device information, general settings, etc.

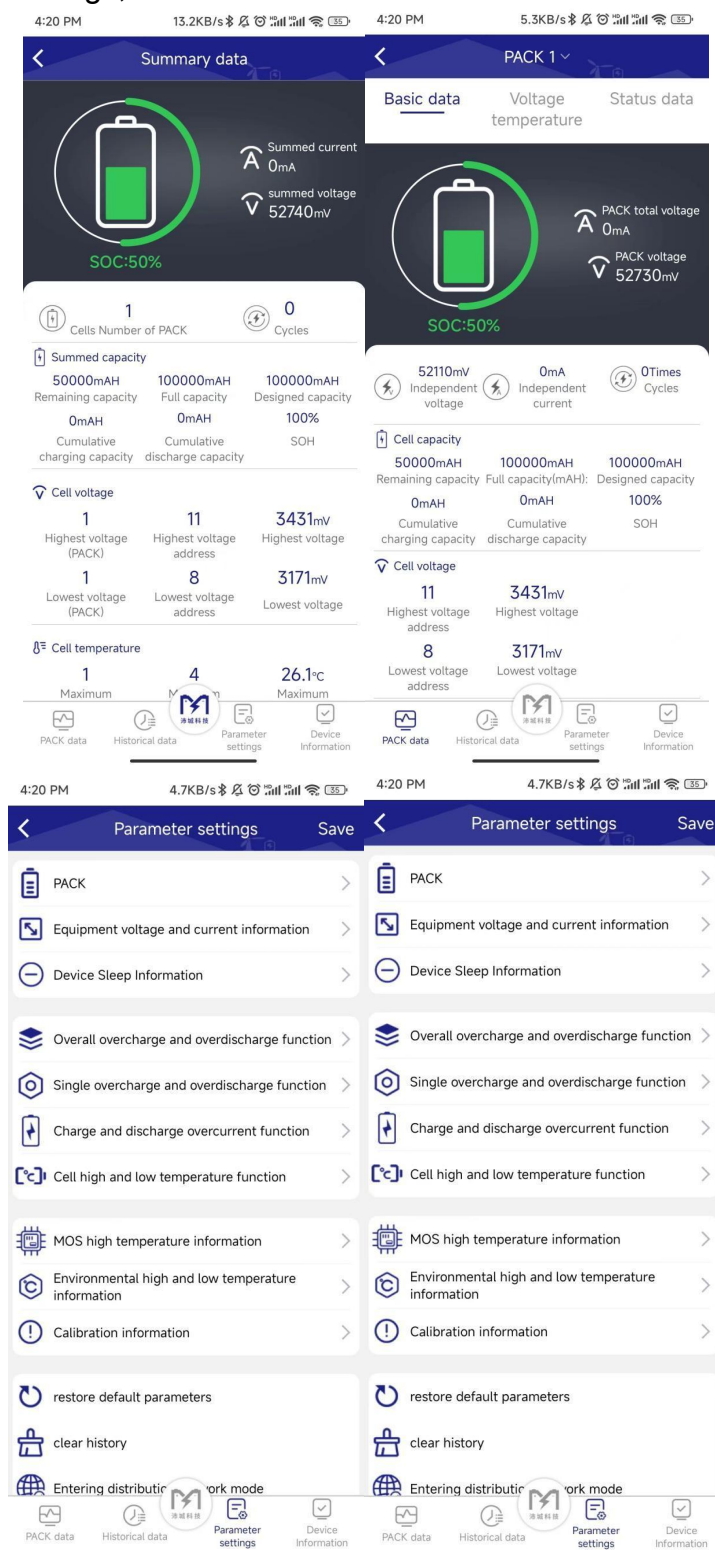


Figure 5-12 Device Control

5.5.7 OTA Upgrade

When a new firmware version is available, tapping a device in the APP will pop up an upgrade prompt. Tap "Upgrade Now" to upgrade. Tap "Later" to enter the device parameter display and settings pages normally.

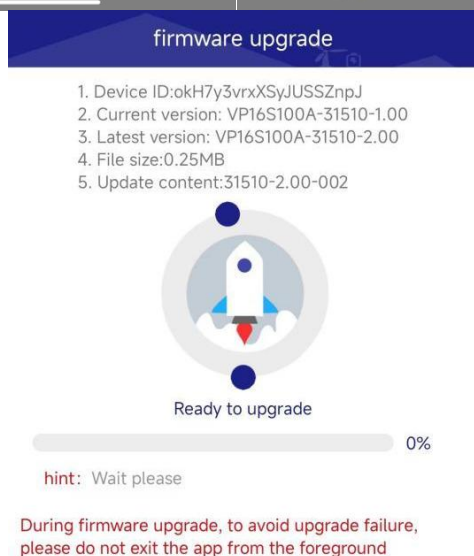
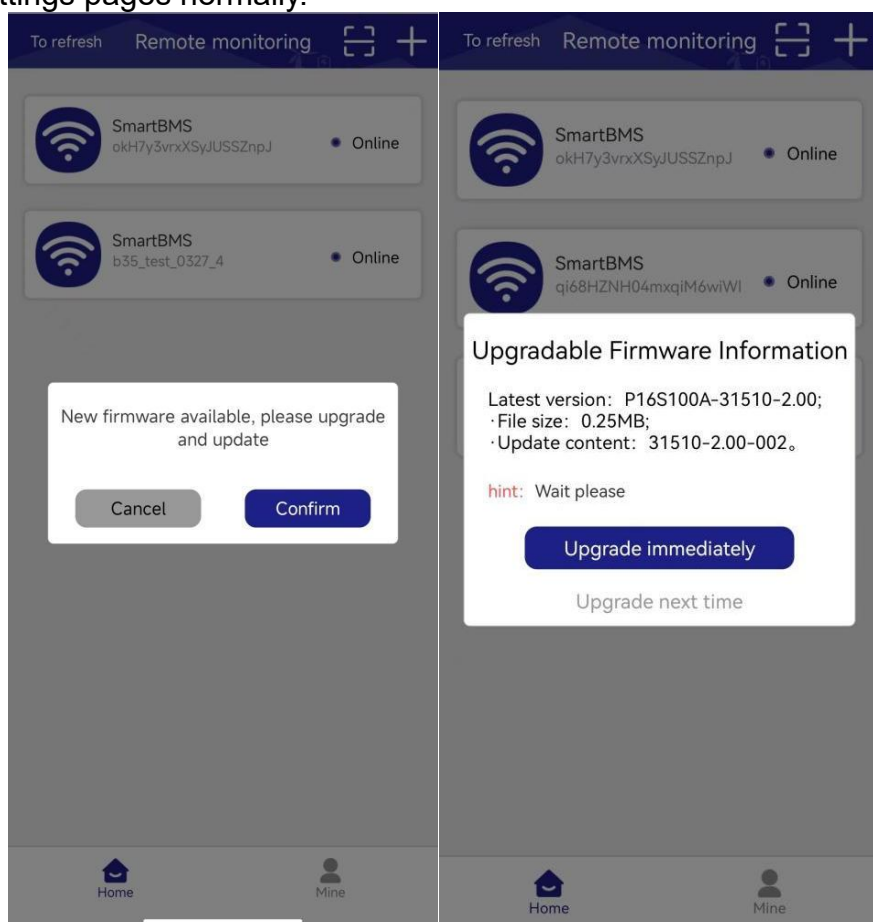


Figure 5-13 OTA Upgrade

Account Logout: After logging out, you can switch to another account.

Account Cancellation: Once cancelled, all information and binding relationships will be cleared. For next use, re-registration is required.

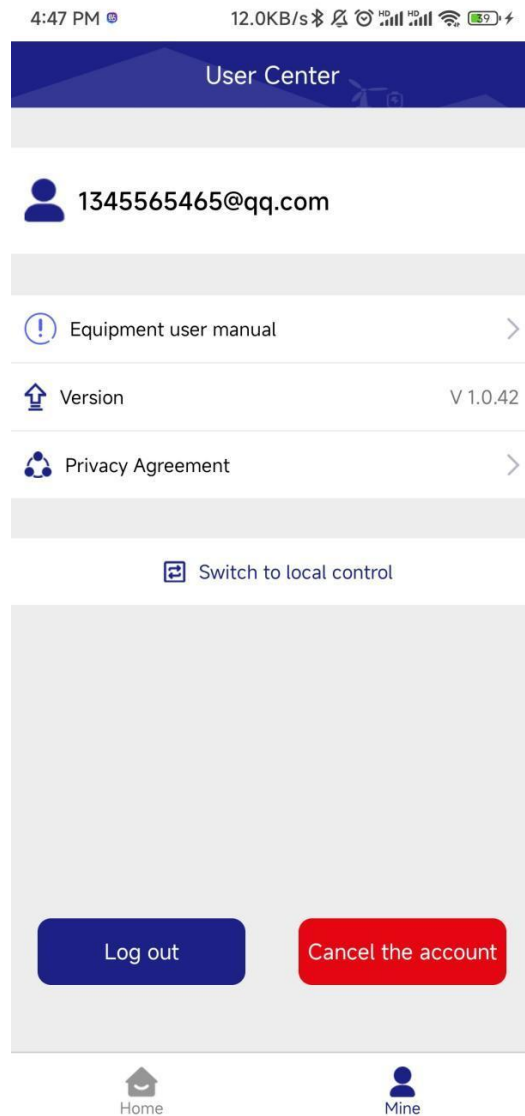


Figure 5-14 Account Logout and Cancellation

6. Display Screen Instructions

6.1 Startup Interface

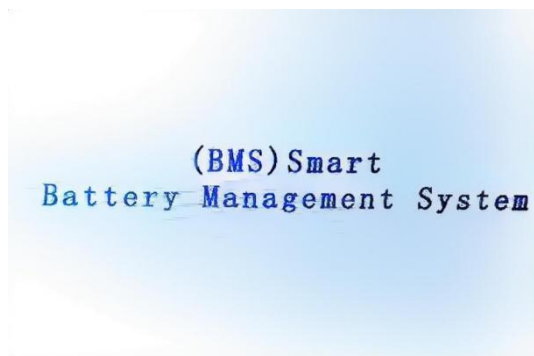


Figure 6-1 Startup Interface

Press the product switch to power on. After power-on, the startup interface shown above will appear. The user needs to tap once to enter the main interface. Please tap the screen with your fingertip.

6.2 Main Interface

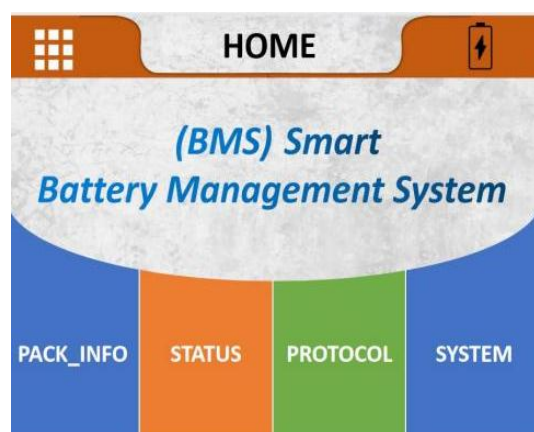


Figure 6-2 Main Interface

Icon	Function Description
	TapReturnMain Menu Interface
	Tap to enter the main status interface
	Tap to enter the battery pack information interface
	Tap to enter the alarm protection status interface
	Tap to enter the protocol settings interface
	Tap to enter the language settings and version information interface

6.3 Main Status Interface

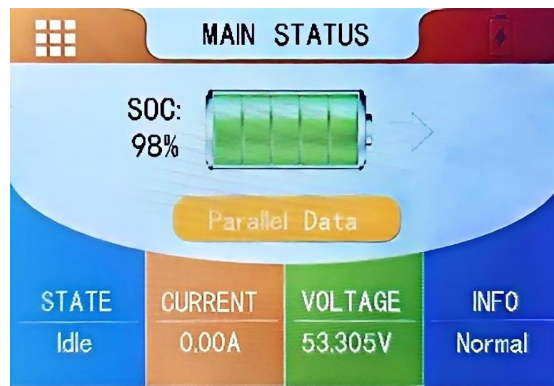


Figure 6-3 Main Status Interface

6.4 PACK INFO Interface



Figure 6-4-1 Battery Pack Voltage, Current, SOC and Capacity Information Interface



Figure 6-4-2 Temperature Information Interface

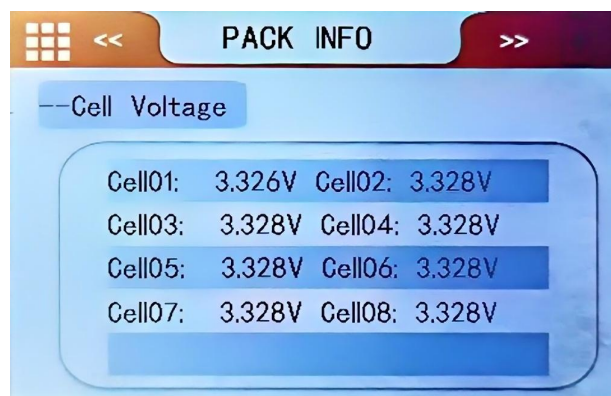


Figure 6-4-3 Cell Voltage Information Interface 1



Figure 6-4-4 Cell Voltage Information Interface 2

6.5 STATUS Interface

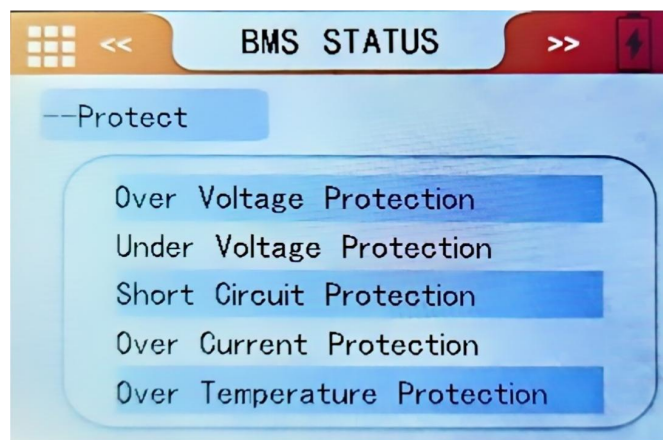


Figure 6-5 Protection Status Information Interface

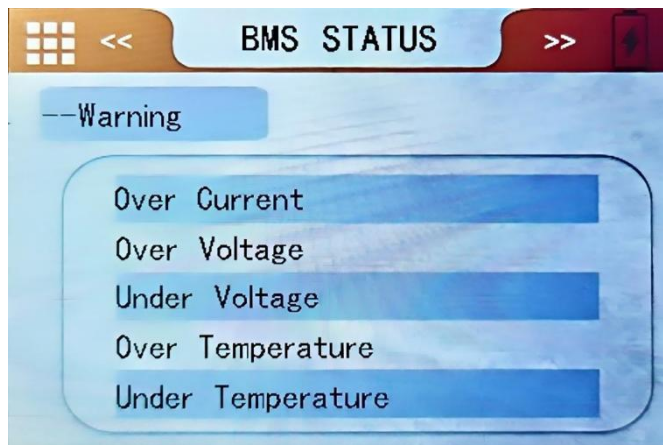


Figure 6-6 Alarm Status Information Interface

6.6 PROTOCOL Interface

Supports both CAN and RS485 protocols. Tap to enter the switching interface. Password: [123456](#).

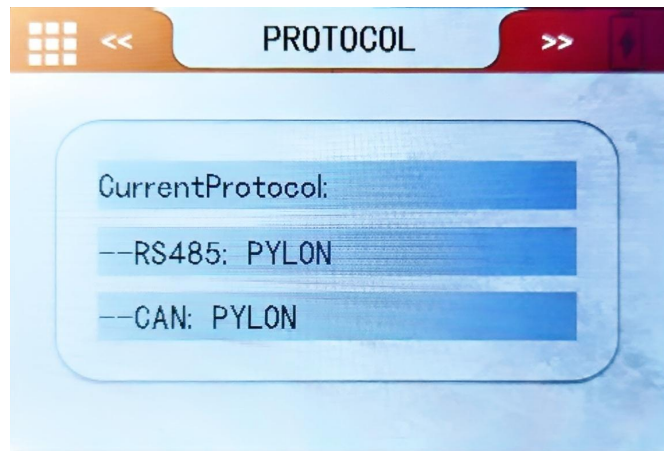


Figure 6-7 Protocol Settings Information Interface

6.7 SYSTEM Interface



Figure 6-8 Version and Language Settings Information Interface

6.8 Parallel Data Interface

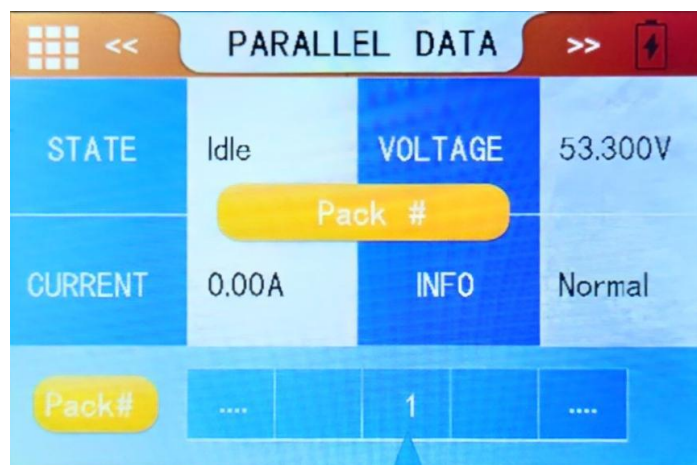


Figure 6-9 Parallel Information Query Interface

6.9 Sleep/Shutdown State

In normal operation, if no any operation is performed within 3 minutes, the system will enter sleep/shutdown state. In sleep/shutdown state, tapping anywhere on the display will activate it and enter the main interface, while authorization will be reset.。

7. Recycling



This symbol indicates that this battery should not be disposed of with other waste. To prevent potential harm to the environment and human health from hazardous waste disposal, please follow local waste sorting and recycling regulations.



If you need to recycle waste batteries, please follow the regulations and recycling procedures of the relevant region, or contact the product manufacturer, distributor, or qualified waste management agency.