APP User Manual

Purpose

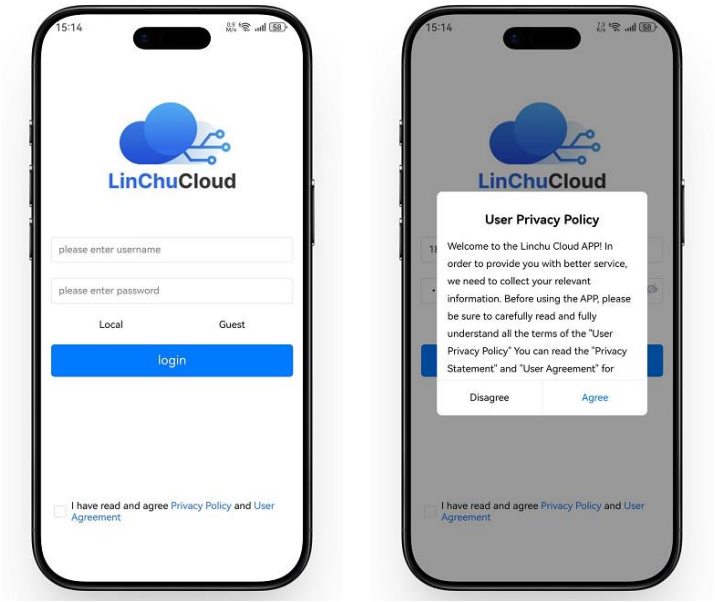
This manual introduces a mobile application designed for distributed energy storage management. Through this app, users can monitor the real-time operational status of all distributed energy storage devices with a single tap. From safety warnings to intelligent charge/discharge strategy optimization, every kilowatt-hour of electricity is utilized safely and efficiently. No matter when or where, users can check device status via the mobile app, enjoying professional-grade safety protection and intelligent management services, truly achieving visualized and intelligent operation and maintenance of energy storage systems.

Function Overview

The app provides functions such as scanning to bind devices, real-time device status monitoring, remote control of device power on/off, configuration of charge/discharge schedules, dual protection functions of anti-reverse power and demand control, one-tap viewing of device information, and device alarm information.

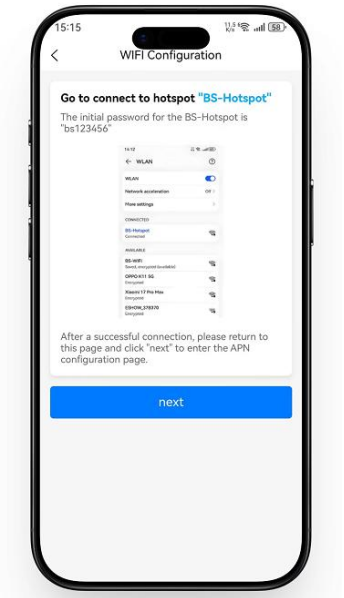
Login

Tap "Linchu Cloud Control" to enter the login page. Enter your account and password (obtain them from the administrator), check the "Privacy Policy" and "User Agreement", then tap "Login" to enter the app.



Local Mode:

When the device's 4G network is unavailable, local mode can be enabled. In this mode, the device automatically guides the user to connect to a designated Wi-Fi hotspot (SSID: BS-Hotspot). After successful connection, the system jumps to the APN configuration page. The user enters the carrier name, and after the device recognizes the carrier, it returns to the login page to log into the system.



Guest Mode:

Guest login allows users to access the app temporarily without an account or password, directly entering the main interface. They can view default device data set by the system but cannot

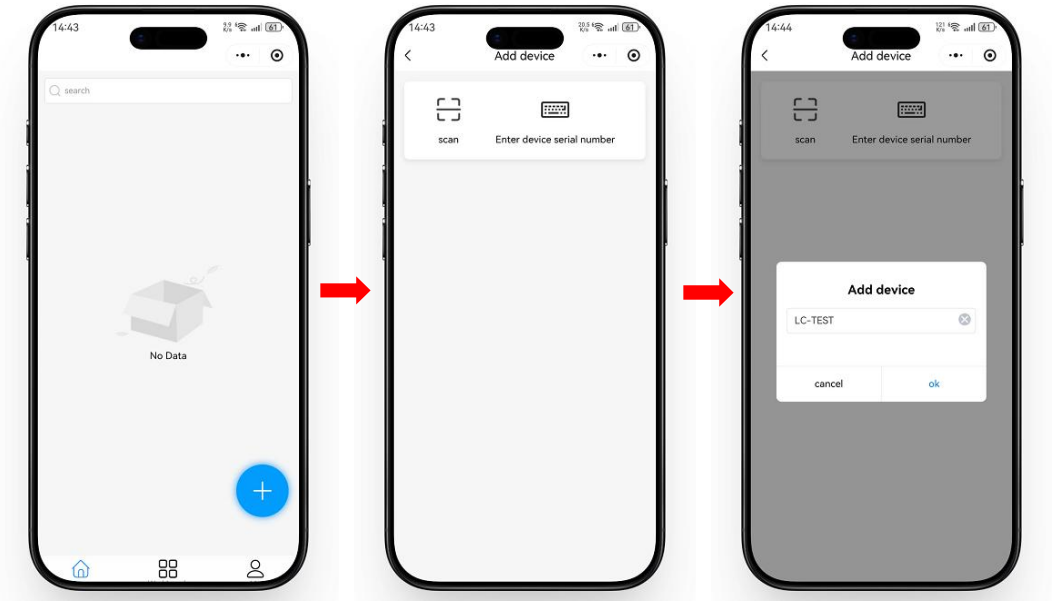
operate the devices.

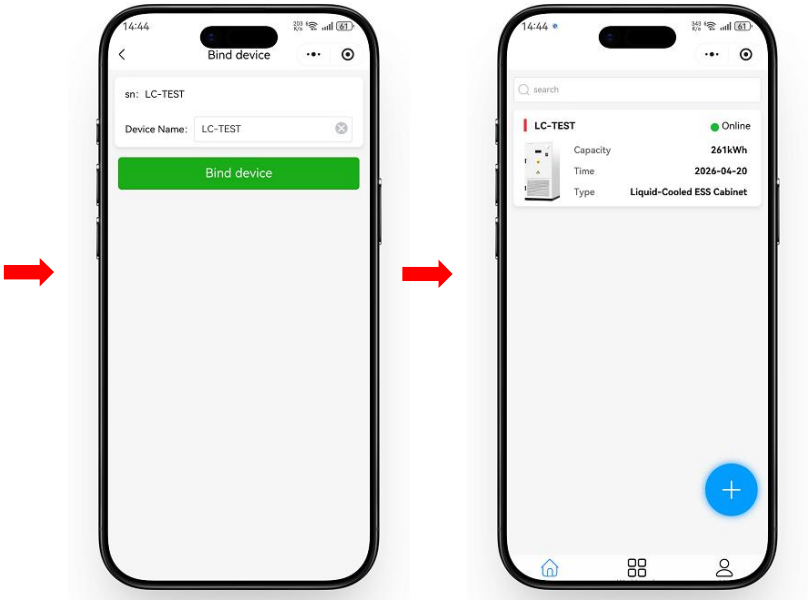
After login, the default display is the Overview section. Tap the bottom menu bar to navigate to the corresponding menu pages: Overview, Workbench, and Mine.

Home

Bind Device

Tap the floating button at the bottom right to go to the Add Device page. Bind a device by scanning a QR code or entering the device serial number. After entering the correct SN, provide a device name to bind. If the device is already bound, the app will jump to that device's detail page.





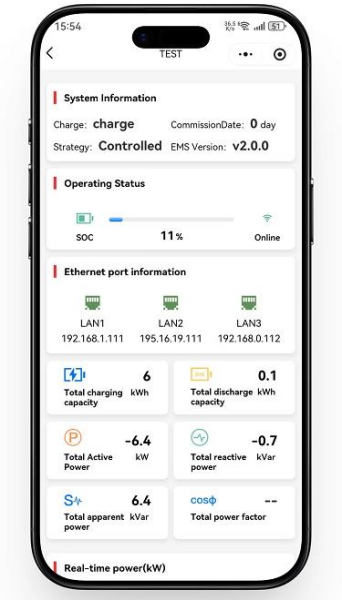
Device Search

By default, all devices under the current account are displayed. Tap the search bar at the top to search for a specific energy storage cabinet by device name.

Device Details

Tap on a device in the list to jump to its details page.

The details page includes: Overall Station Status, Operating Status, Network Information, and Real-Time Power.



Workbench

Select a single device to enter the device operation interface.

Strategy Management

Strategy Management includes five working modes: Auto Mode, Manual Mode, Controlled Mode, VPP Modbus TCP Mode, and VPP MQTT Mode. The system defaults to Auto Mode.

Auto Mode: Supports configuration of scheduled curves, anti-reverse power, and demand control strategies.

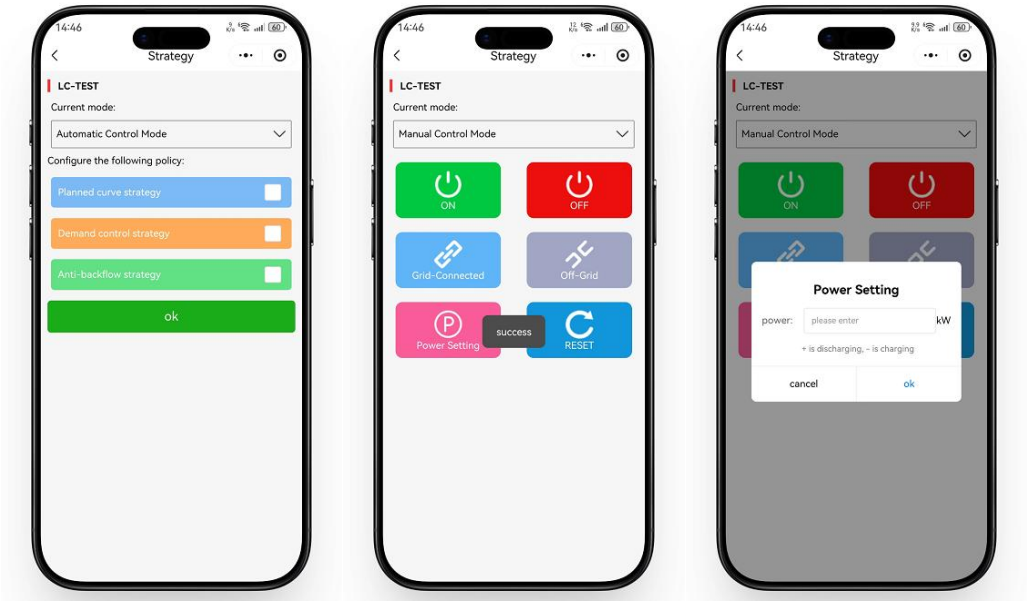
Manual Mode: Provides operations such as power on, power off, power setting, and fault reset.

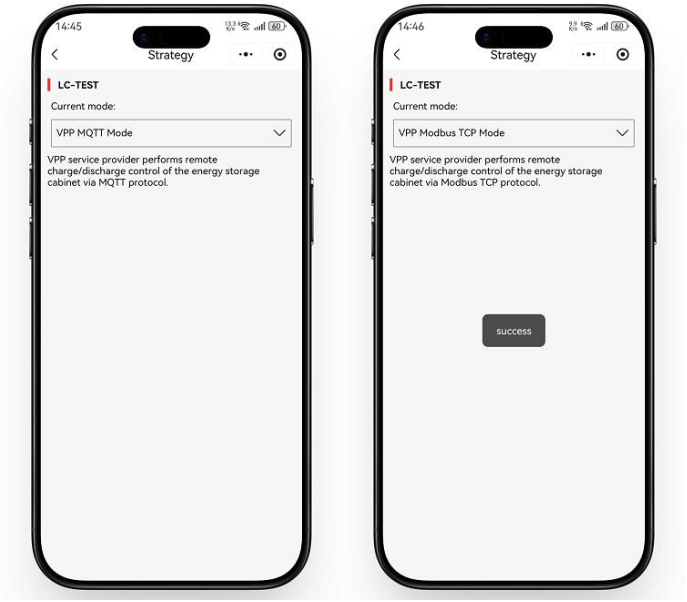
VPP Modbus TCP Mode: Remotely controls charging/discharging of the energy storage cabinet via Modbus TCP protocol.

VPP MQTT Mode: Remotely controls charging/discharging of the energy storage cabinet via MQTT protocol.

The above four are standard modes.

Controlled Mode applies to cabinet-paralleling scenarios: When multiple energy storage cabinets are grouped, the master cabinet can control the scheduled curves, anti-reverse power, and demand control strategies of the slave cabinets. In this case, the slave cabinets operate in Controlled Mode. By default, slave cabinets do not have Auto Mode, but they can be switched to Manual Mode, VPP Modbus TCP Mode, or VPP MQTT Mode. Once a slave cabinet is switched to one of these three modes, it disconnects from the master cabinet's control. To be controlled by the master again, it must be switched back to Controlled Mode.


14:46
Strategy
LC-TEST
Current mode:
Automatic Control Mode
Configure the following policy:
Planned curve strategy
Demand control strategy
Anti-backflow strategy
ok
14:46
Strategy
LC-TEST
Current mode:
Manual Control Mode
ON
OFF
Grid-Connected
Off-Grid
Power Setting
RESET
success
14:46
Strategy
LC-TEST
Current mode:
Manual Control Mode
ON
OFF
Power Setting
power:
please enter
kW
+ is discharging, - is charging
cancel
ok

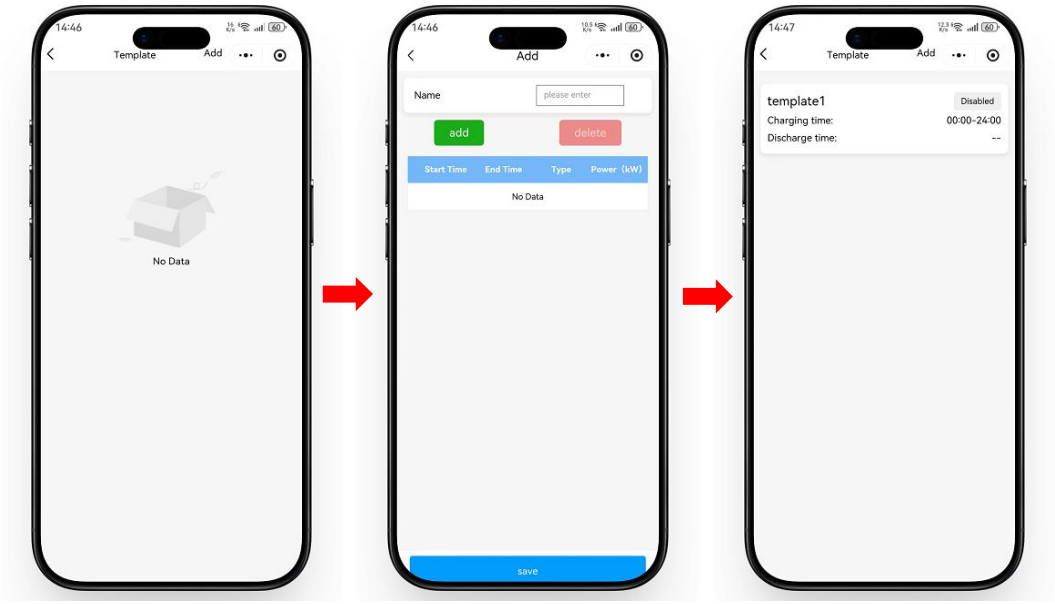

14:45
Strategy
LC-TEST
Current mode:
VPP MQTT Mode
VPP service provider performs remote charge/discharge control of the energy storage cabinet via MQTT protocol.
14:46
Strategy
LC-TEST
Current mode:
VPP Modbus TCP Mode
VPP service provider performs remote charge/discharge control of the energy storage cabinet via Modbus TCP protocol.
success

Charge/Discharge Template

View the templates available for the device. Configure a template first, then configure the schedule.

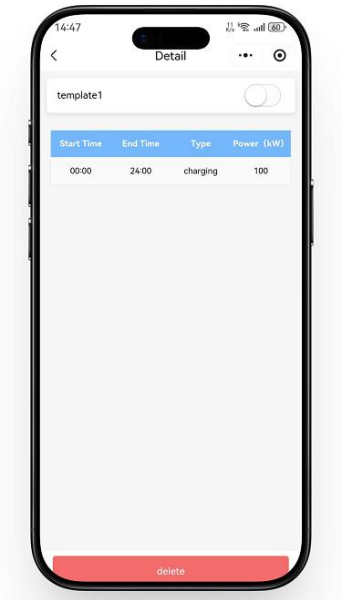
Add

Enter a template name, tap the "Add" button to open a pop-up, select start time, end time, charge/discharge type, and scheduled power. Tap "Save" to configure a new template.



Template Details

View the template information. Tap the "Delete" button at the bottom to delete the template.

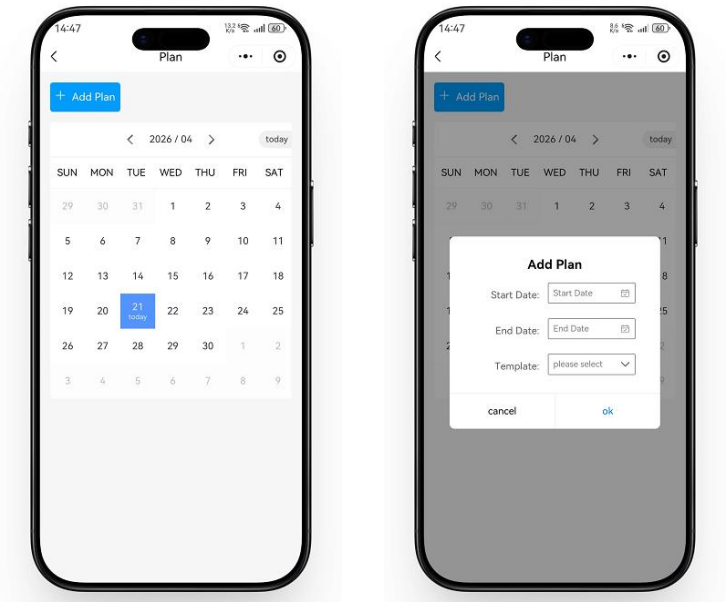


Charge/Discharge Schedule（Plan）

View the configured charge/discharge schedule curves by calendar.

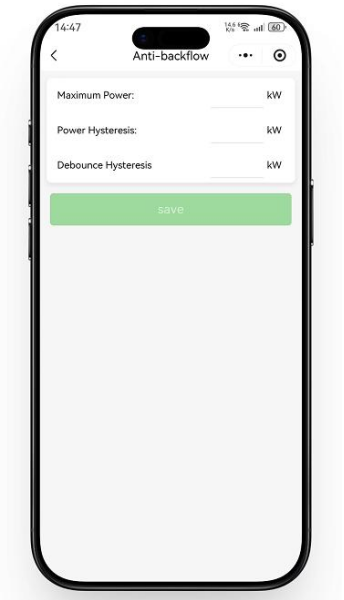
Add Schedule

Tap the "Add Schedule" button, select start time, end time, and template (charge/discharge template) to configure the charge/discharge schedule curve.



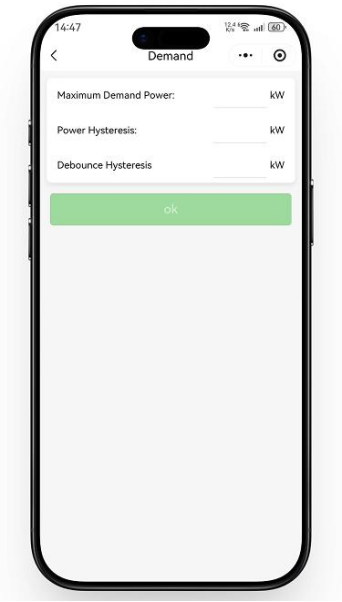
Anti-Reverse Power

Configure the anti-reverse power plan by entering parameters on the page. Note: Only the master cabinet can configure anti-reverse power.



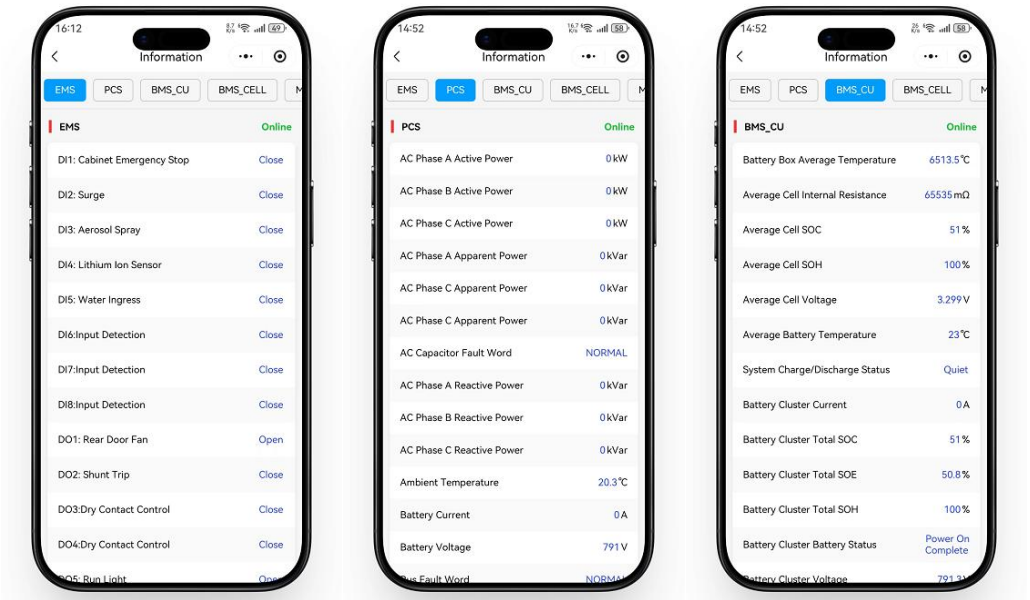
Demand Control

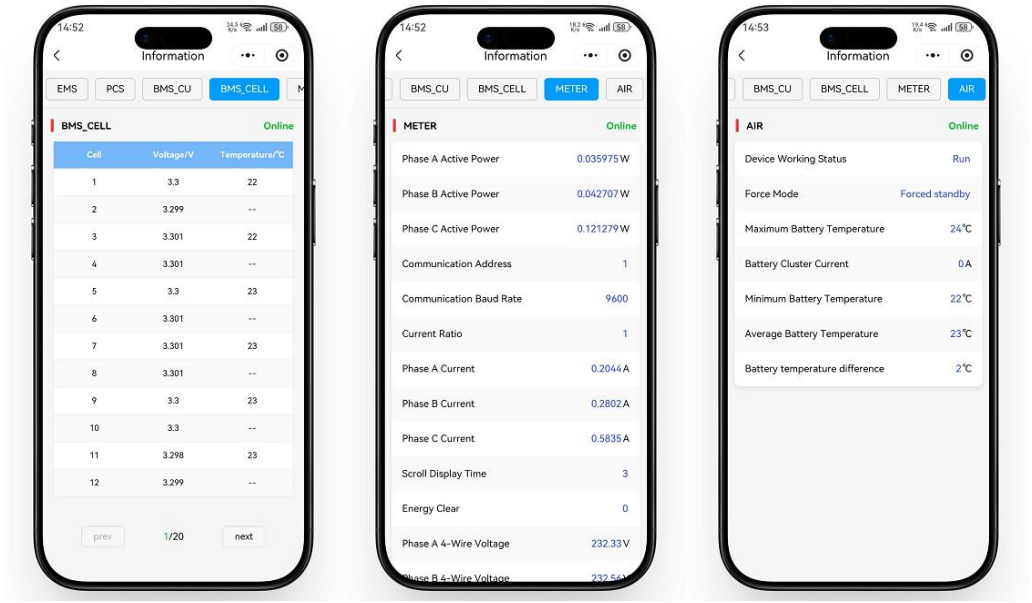
Configure demand control by entering parameters on the page.



Device Information

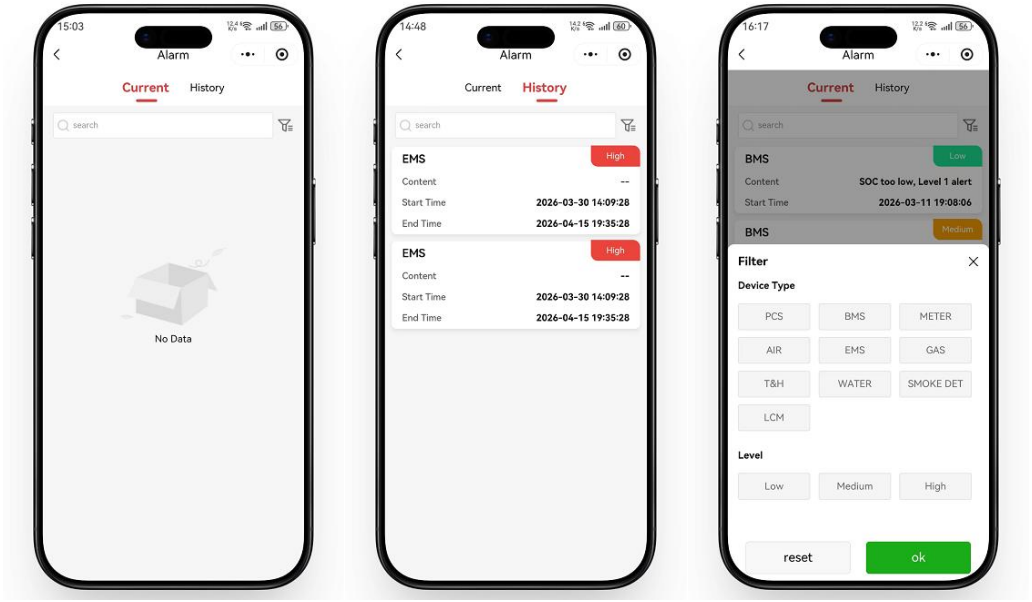
Display device data including PCS, BMS cluster, individual battery cells, EMS, meter, air conditioner, gas sensor, liquid chiller, dehumidifier, smoke detector, temperature/humidity sensor, water immersion sensor, etc. Only the equipment that the device actually has is shown.





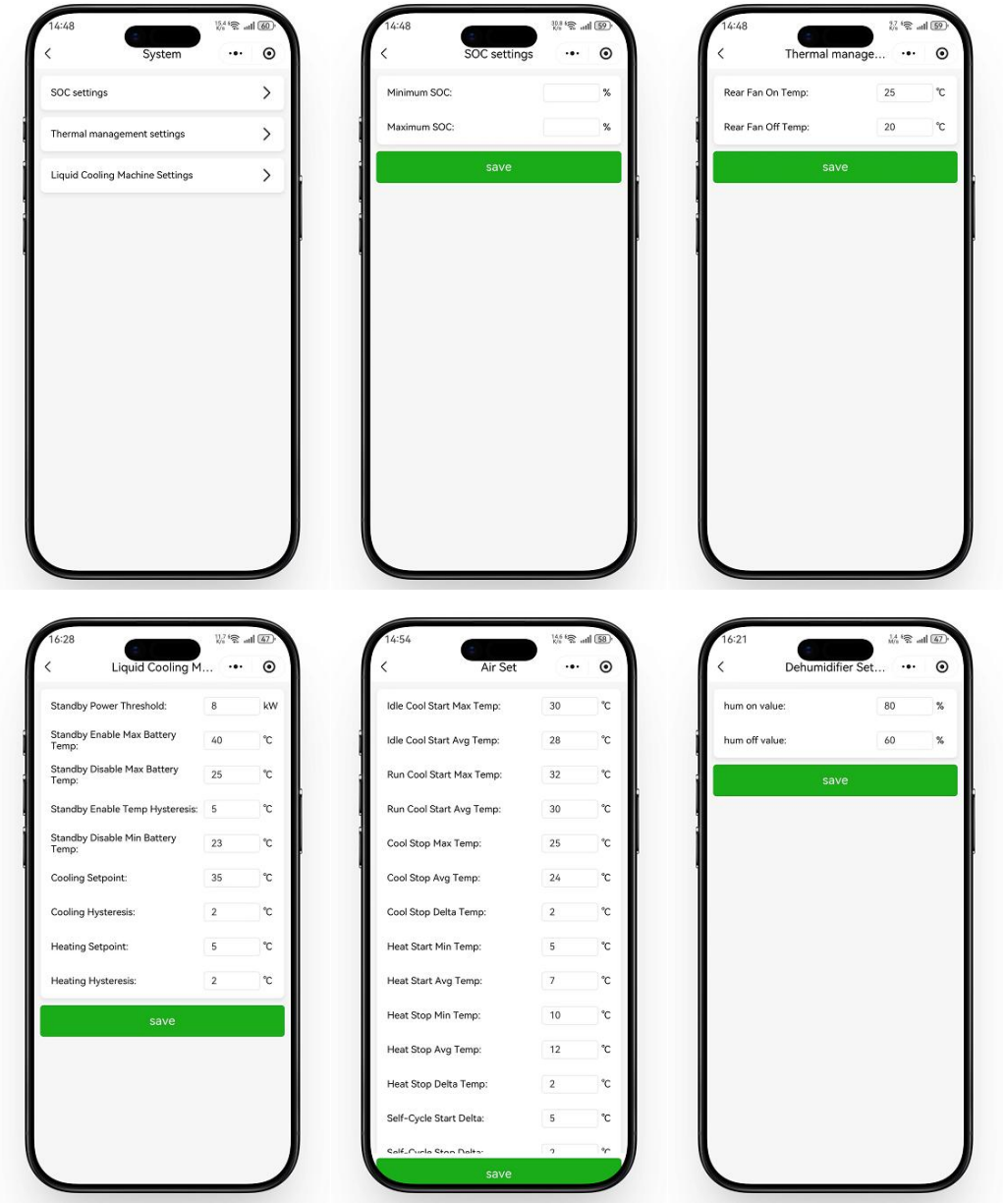
Device Alarms

View real-time and historical alarms, display device fault details, and filter by device type or alarm level.



System Settings

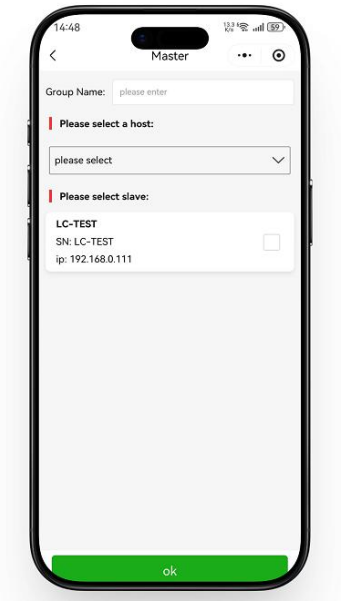
Configure SOC settings, thermal management settings, air conditioner settings, liquid chiller settings, and dehumidifier settings. When the energy storage cabinet is air-cooled, air conditioner parameters can be set; when it is liquid-cooled, liquid chiller parameters can be set.



Master-Slave Settings

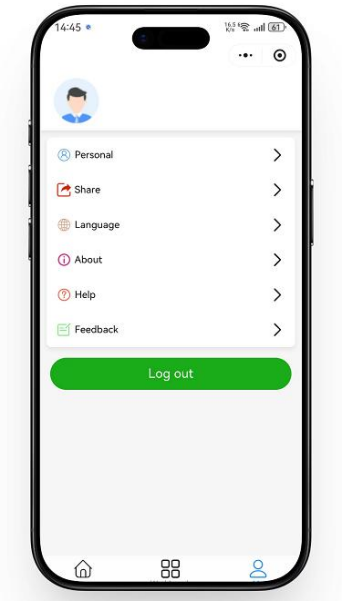
You can group the bound devices for cabinet paralleling. Enter a group name, select the master and slave devices, and complete the grouping. Once grouping is successful, the master can control the operating strategies of the slaves (see the [Strategy Management] section in this module for details).

Note: After grouping, users cannot cancel the grouping by themselves. Please carefully confirm the devices to be grouped. If you need to cancel a grouping, please contact the administrator.



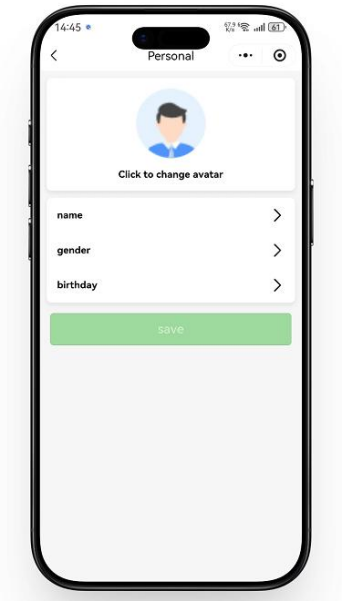
My

Tap "My" on the bottom menu bar to switch to the Mine page.



Personal Center

Change avatar, nickname, gender, birthday, and other personal information.

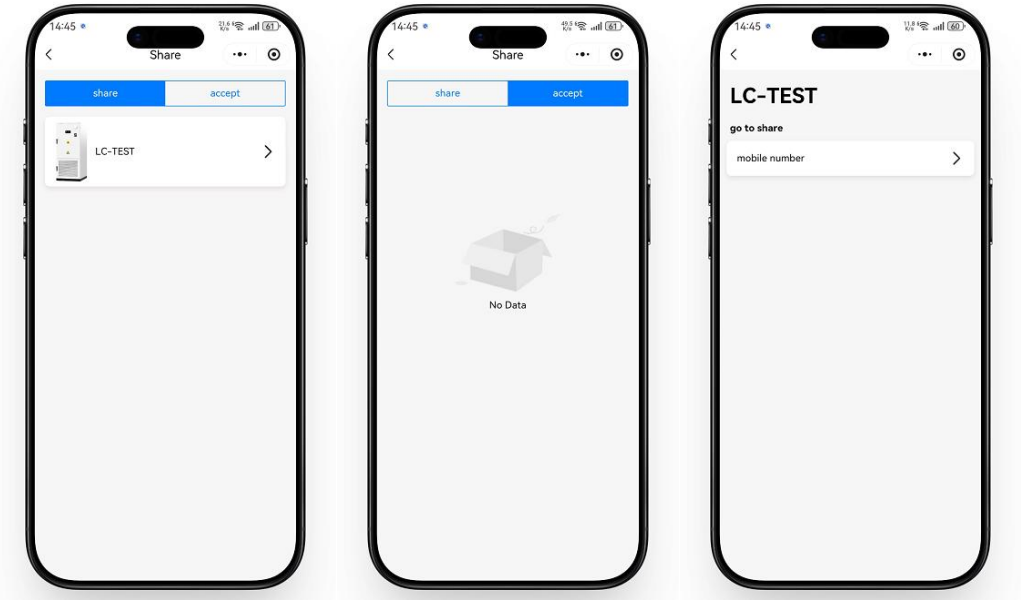


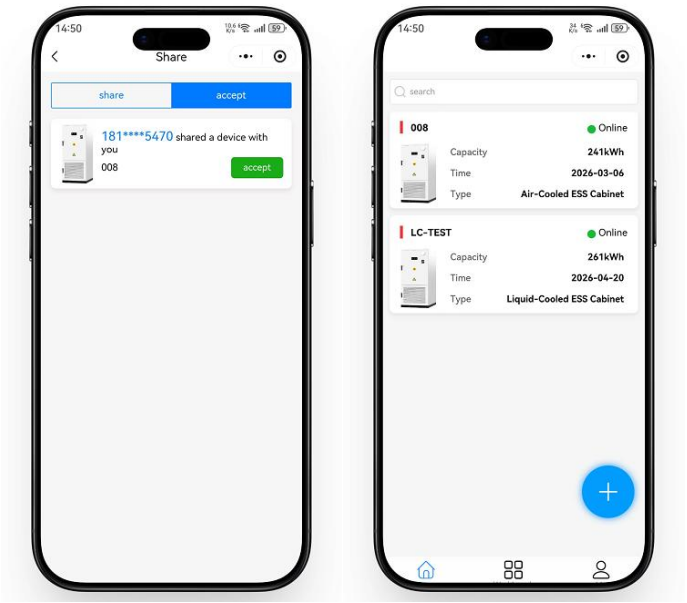
Device Sharing

Divided into two sections: Sharing and Receiving.

Sharing: Share your devices with others via phone number. You can also cancel sharing.

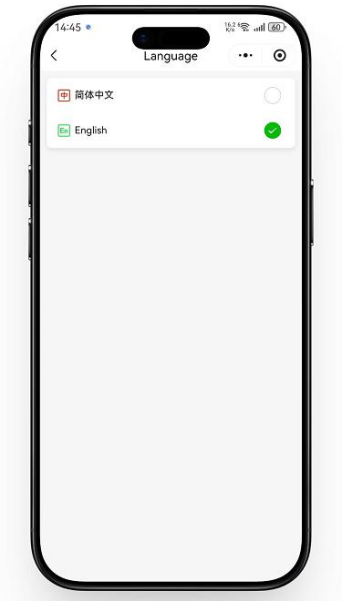
Receiving: Accept devices shared by others.





Language Switch

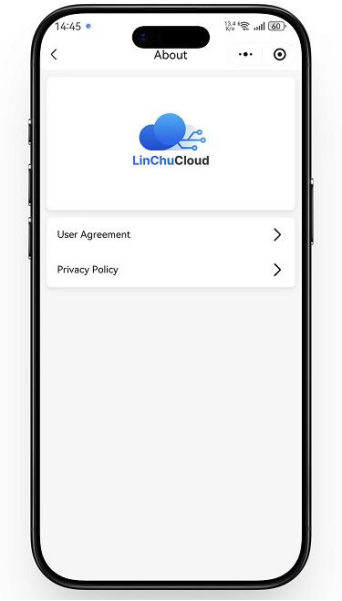
Supports switching between Chinese and English.



About Us

Service Agreement: Tap to view the service agreement.

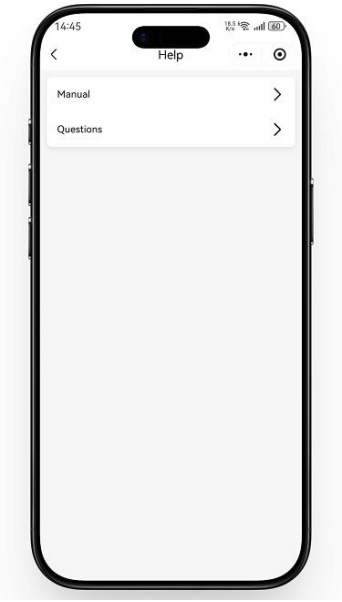
Privacy Policy: Tap to view the privacy policy.



Help Center

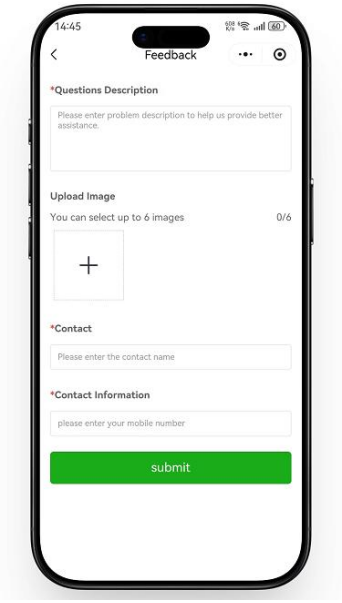
User Manual: Tap to view the user manual.

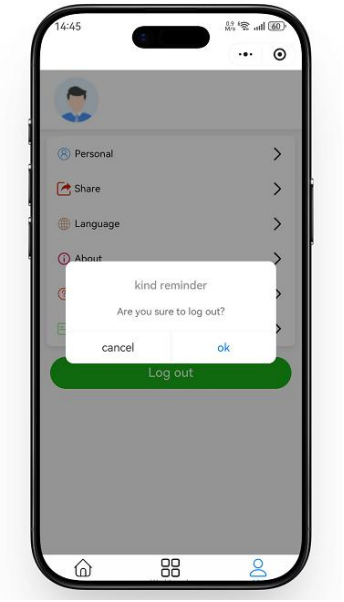
FAQs: Tap to view frequently asked questions.



Feedback

Tap "Feedback" on the Mine page to go to the feedback page. Fill in the relevant content and tap "Submit".



Logout

Tap the "Logout" button. A pop-up prompts for confirmation. Tap "Confirm" to log out successfully; tap "Cancel" to stay logged in.