

# eSAJ Home Mobile Terminal

## User Manual

Documentation Version V 1.2  
Release date 2023/04/23

## Overview

This document mainly introduces the common operation steps of eSAJ Home mobile terminal

## audience

This document is intended for SAJ power station dealer/ installer users and owner users

## Modify records

date	document version	Modify the description
2022/1 1/0 1	V 1.0 _	The first official release
2022/1 2/1 6	V 1.1 _	Update screenshots etc
2023/03/24	V1.12_	Update download QR code
2023/04/23	V1.2	Update New version screenshots etc

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# 1 eSAJ Home

eSAJ Home is a smart home energy management system that integrates power generation, storage and use. It can monitor power generation data, battery data and power consumption data in real time, and manage home power stations through the APP.

## Account and data description

account number is the same as eSolar Air and eSolar O&M, you can log in directly, and the power station data will also be consistent.

# 2 Download and Install APP

## 2.1 Mobile and Network Requirements

Mobile operating system requirements: Android 5.0, iOS 11.0 and above.

In order to ensure the stability of APP functions, it is strongly recommended to use mobile phones with versions of Android 8.0, iOS 13.0 and above, and the mobile phone supports network connection to the Internet.


## 2.2 Installation Method

### Method 1 : Download and install through the app market

Android phone users: Search eSAJ Home in the app market, download and complete the installation.

iPhone users: Search for eSAJ Home in the app market, download and complete the installation.

## install via QR code

android	apple
	

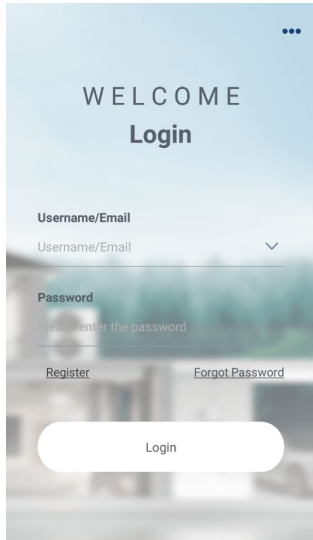
## 3 Get account password

### 3.1 Owner user

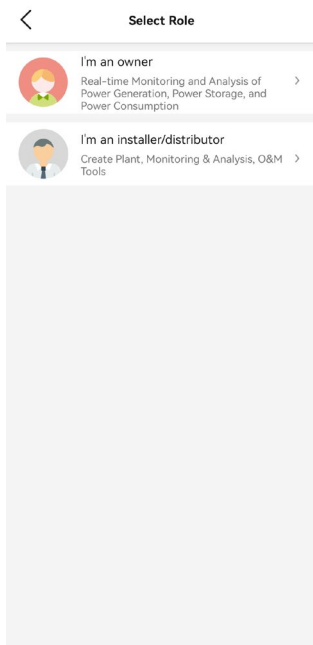
Recommended to ask the installer to create an account for you . You need to provide information such as username and email address. The password will be sent to the owner by email. At the same time, you can also create an account yourself.

**The operation steps are as follows:**

- ① Click to register



② Click I am the owner





### ③ Fill in the registration information

The screenshot shows a mobile registration form titled "Register". It features a back arrow on the top left. The form contains the following fields and options:

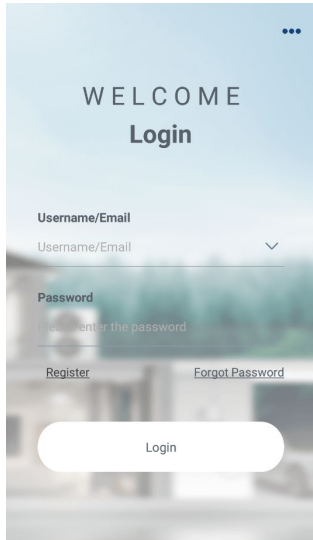
- Role Type:** A dropdown menu with "Owner" selected.
- Username:** A text input field with the placeholder "Please enter".
- Country/Region:** A dropdown menu with the placeholder "Please select" and a right-pointing arrow.
- Time Zone:** A dropdown menu with the placeholder "Please select" and a right-pointing arrow.
- Email:** A text input field with the placeholder "Please enter a valid Email".
- Password:** A text input field with the placeholder "Please enter".
- Agreement:** A checkbox labeled "Agree 《Registration Agreement》".
- Updates:** A checkbox labeled "Yes, please keep me updated on news, events and offers."
- Submit:** A red button labeled "Confirm Registration".

## 3.2 Reseller/ Installer User

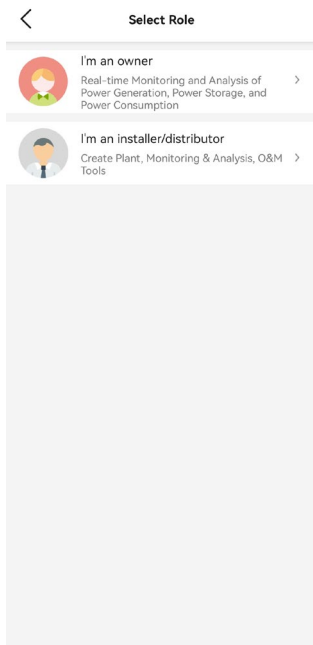
If your company has been registered in the system, please ask your company's administrator to create it in the system. If your company is not registered in the system, you can register directly.

**The operation steps are as follows:**

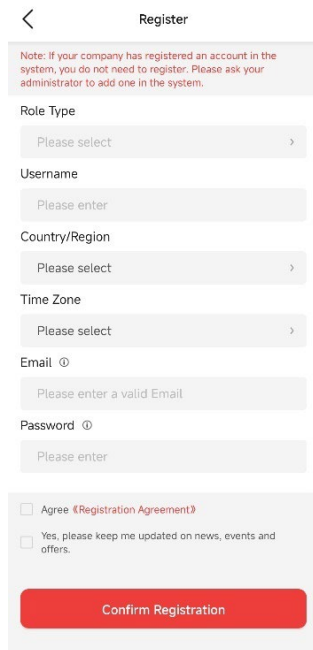
- ① Click to register



② Click I am a reseller/installer

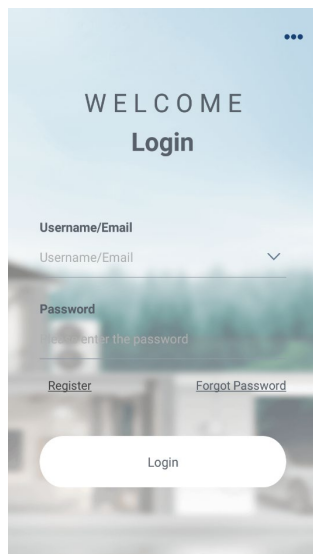


### ③ Fill in the registration information



The screenshot shows a mobile app registration screen titled "Register". At the top left is a back arrow. Below the title is a note: "Note: If your company has registered an account in the system, you do not need to register. Please ask your administrator to add one in the system." The form contains several fields: "Role Type" (dropdown menu), "Username" (text input), "Country/Region" (dropdown menu), "Time Zone" (dropdown menu), "Email" (text input with a help icon), and "Password" (text input with a help icon). Below the fields are two checkboxes: "Agree «Registration Agreement»" and "Yes, please keep me updated on news, events and offers." At the bottom is a red "Confirm Registration" button.

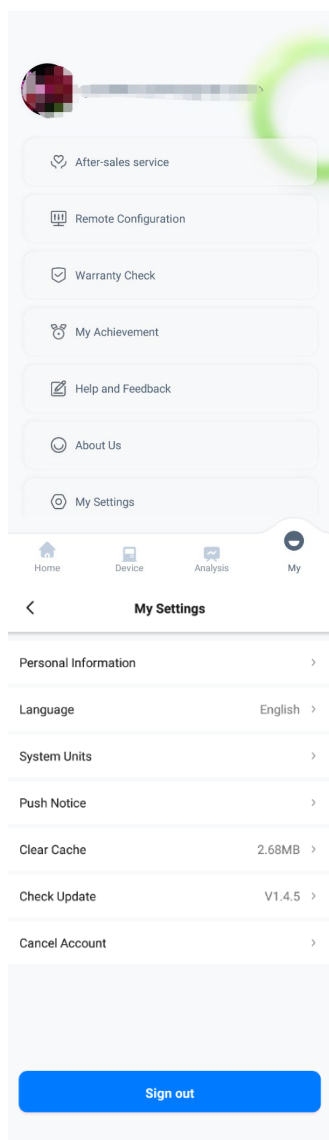
### Login to APP



The screenshot shows the login screen of the mobile app. At the top right is a three-dot menu icon. The screen displays "WELCOME" and "Login" in large text. Below this are two input fields: "Username/Email" and "Password". The "Password" field has a hint "Please enter the password". Below the input fields are two links: "Register" and "Forgot Password". At the bottom is a white "Login" button.

Enter the login interface, enter the account number and password, and click Login.

### Exit the app



On the "My" page, click "My Settings" and click "Sign Out".

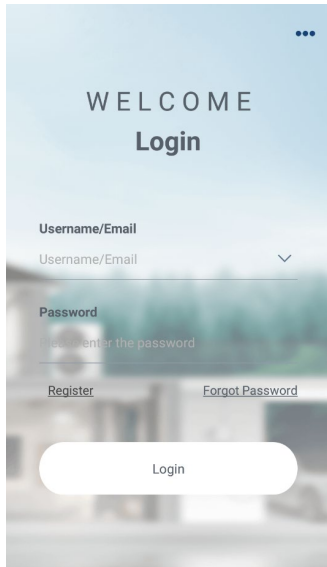
## 4 Log in and out of the APP

### Preconditions:

The phone is connected to a mobile network or WLAN.

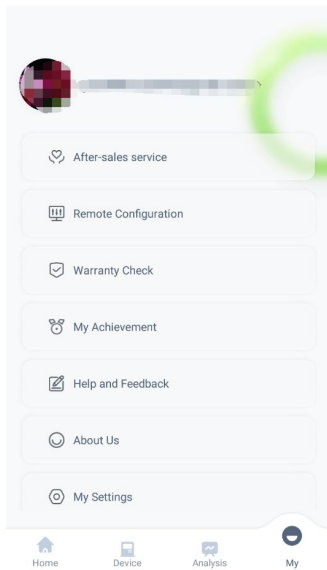
The account password of eSAJ Home has been obtained.

## Login to APP

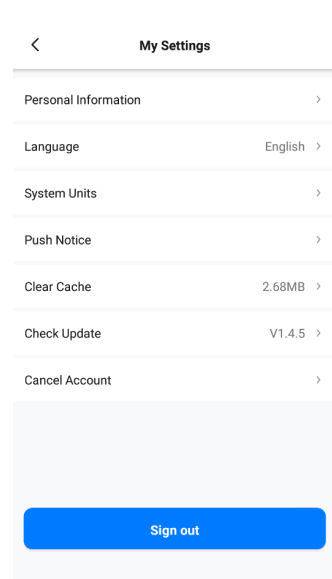


Enter the login interface, enter the account number and password, and click Login.

## Exit the app



## eSAJ Home Mobile User Manual



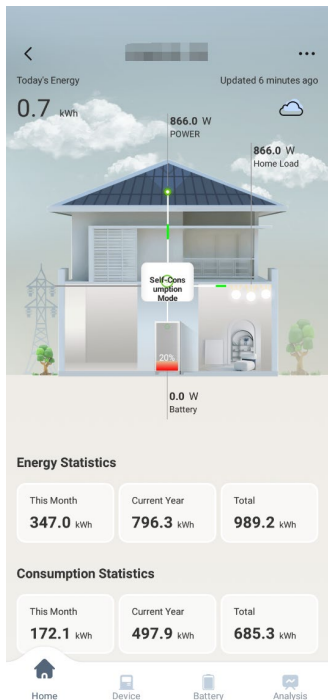
On the "My" page, click "My Settings" and click "Sign Out".

## 5 I Am the Owner

Owner users can use the e SAJ Home App Monitor the operation status of the power station, perform power station/equipment management, power generation / power consumption statistics, energy analysis, etc.

### 5.1 Home Power Station Management

On the "Home Power Station Management" page, you can query the power station overview, including: real-time operating status, energy flow, power generation/consumption statistics, weather forecast, and environmental benefits.

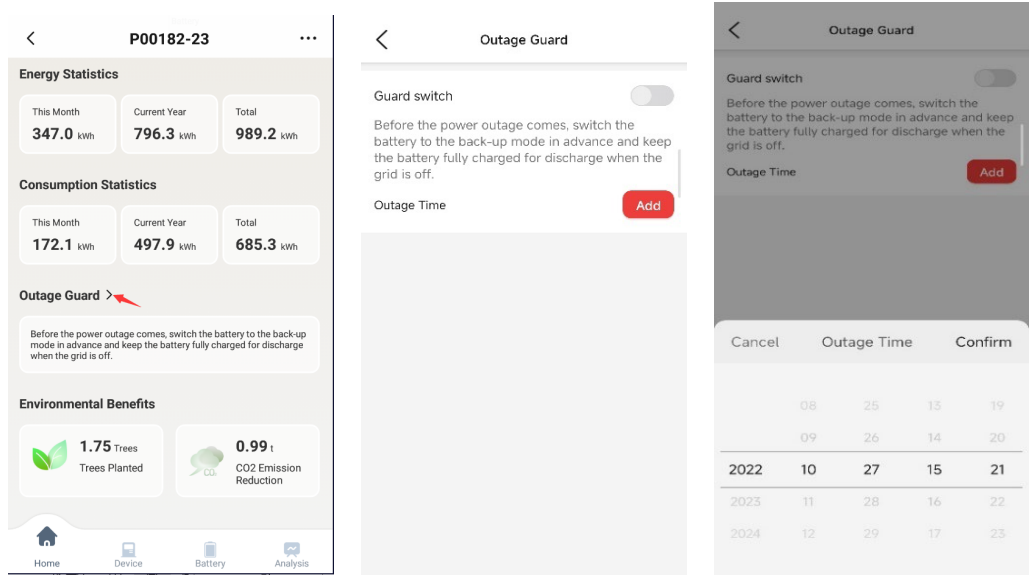


**Basic information of the power station:** the power generation capacity of the power station on the day, the online/offline status, and the local weather conditions.

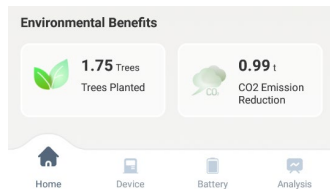
**Power generation statistics:** current month/year/cumulative power generation.

**Power consumption statistics:** current month/year/cumulative power consumption.

**Power off guard:** support on/off battery backup mode. After the function is turned on, the power-off time can be set in advance, and the system will fully charge the battery before the power-off and supply it for the load after the power-off.



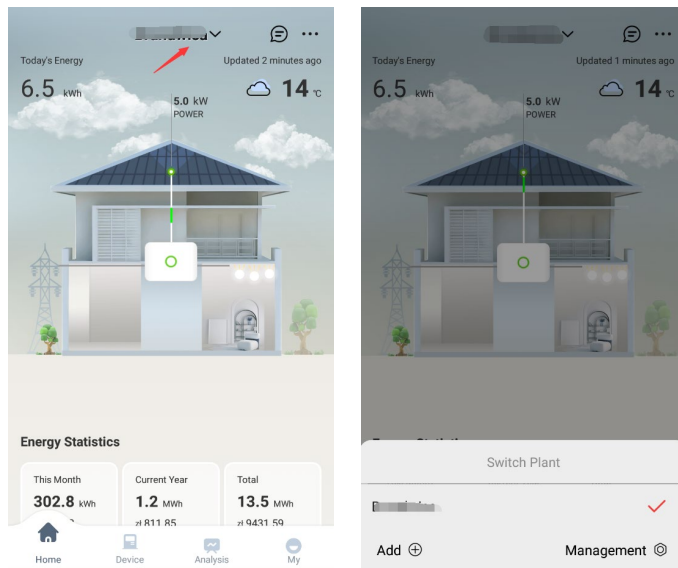
**Environmental benefits:** energy benefits are equivalent to "cumulative tree planting" and "CO2 emission reductions".



### 5.1.1 Home Power Station Switching and Editing

**Switching power stations:** If the owner user has installed and added multiple power stations, click the icon location to pop up the "Home Power Station" list to switch power stations.

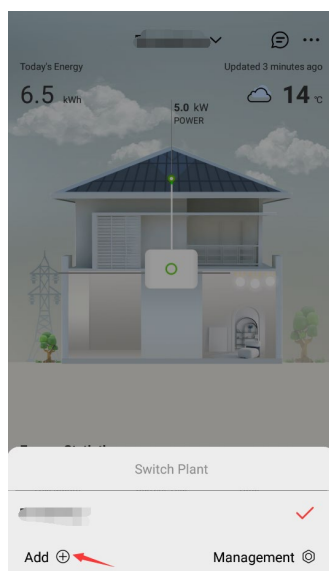


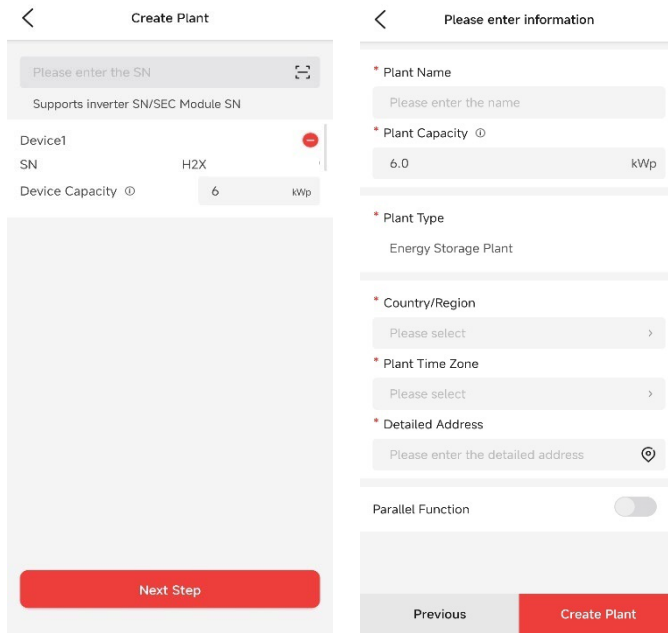


### Edit the power station:

In the "Home Power Station" list, click "Add" > enter or scan the SN code, click "+" > Enter the power station name, power station capacity, power station type, country/region, power station time zone, detailed address and other information >

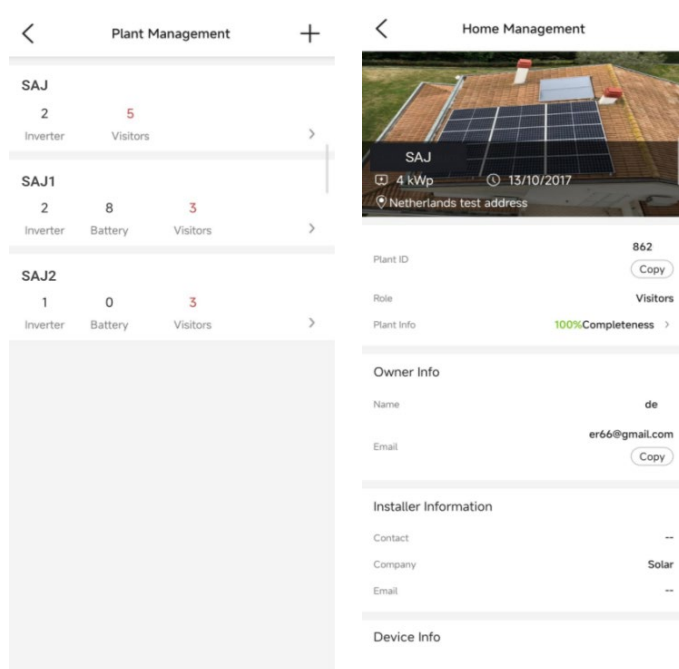
Create a power station.





In the "Home Power Station" list, click "Manage" > select a power station to query information about the power station, owner, installer, and equipment . Click "Completeness of power station information" to edit the basic information of the power station. "... " in the upper right corner of the homepage > Select "Family Management" to quickly enter the family management page.

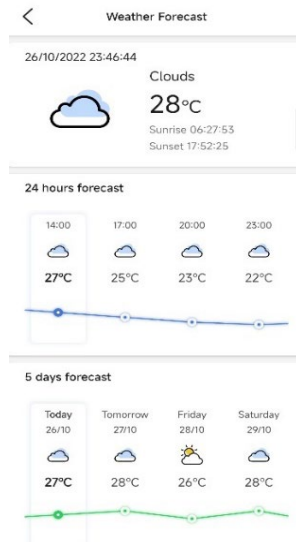
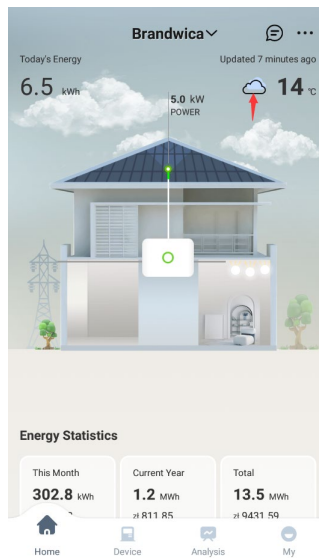
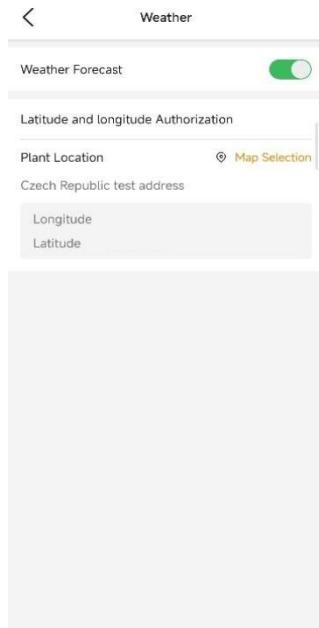




### 5.1.2 Home Weather

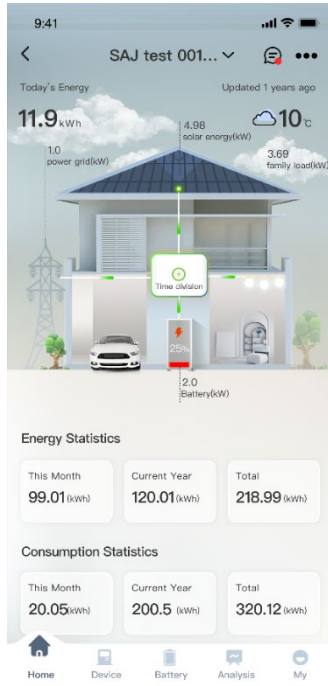
On the "Home Power Station Management" page, click "☰" > "Home Weather", you can set whether to enable the "Weather Forecast" function, and you can query the authorized location of the power station's latitude and longitude.

After the weather forecast function is turned on, the home page weather will update the weather conditions on time. At the same time, click the weather icon on the page to jump to the weather forecast page.



The page background supports switching themes according to real-time weather conditions.

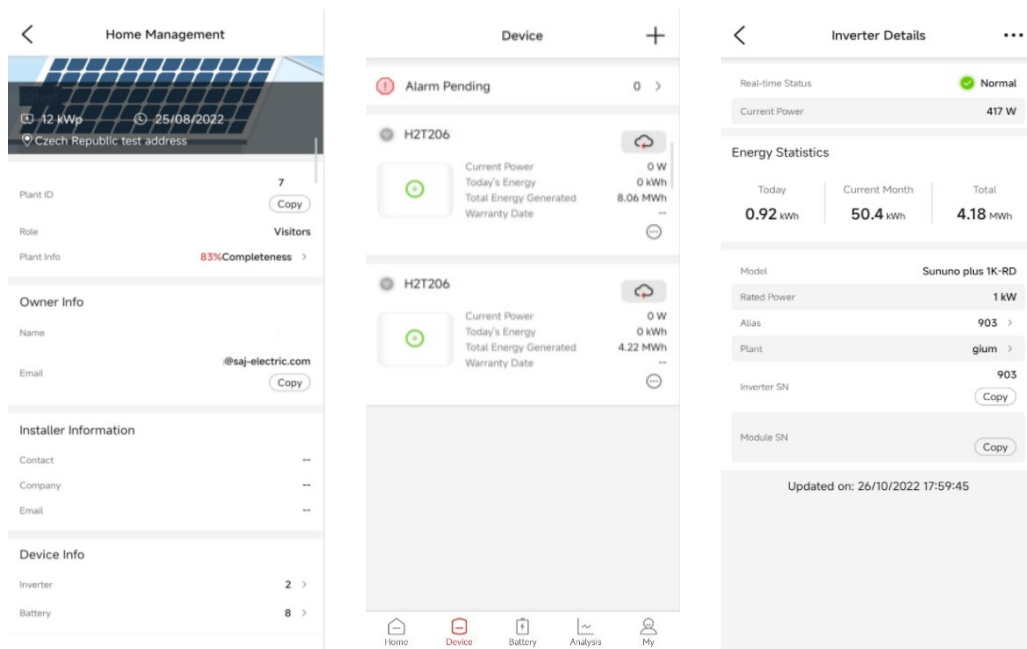
They are: sunny, cloudy, rainy, and night.



### 5.1.3 Family Management

On the "Home Power Station Management" page, click "☰" > "Home Management", you can query the information of the currently selected power station, such as the overview, owner, installer, equipment, etc. Click the "Power Station Information Completeness" column to edit the basic information of the power station.

In the "Device Information" column, select a specific device to query the detailed information of the device.



### 5.1.4 Visitor Management

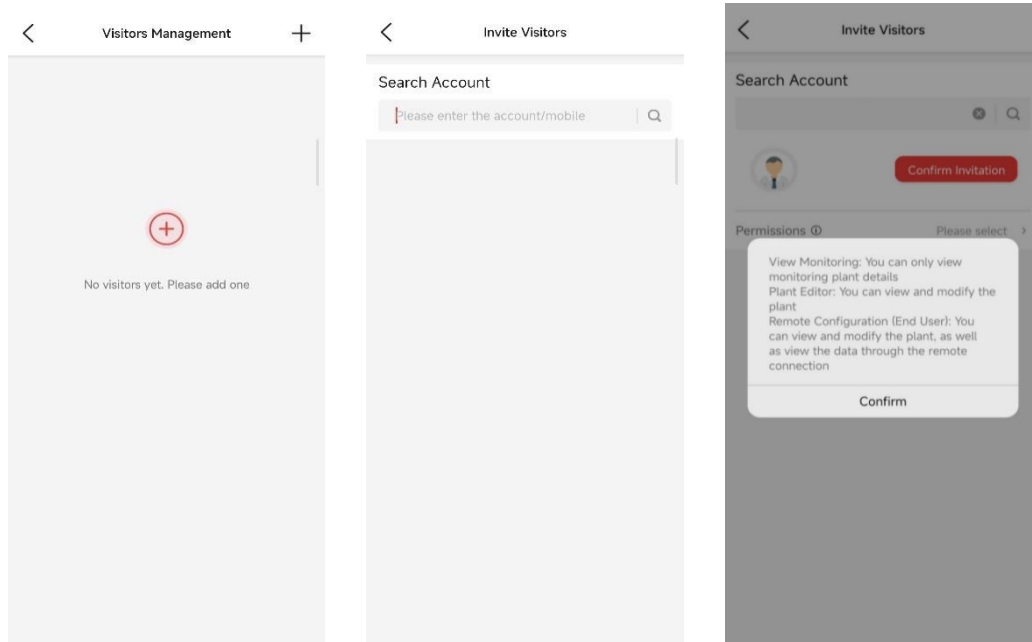
On the "Home Power Station Management" page, click "☰" > "Guest Management", enter user account/mobile phone number/email to add a guest.

Guest permissions: (optional)

**View monitoring:** only support viewing monitoring power station details;

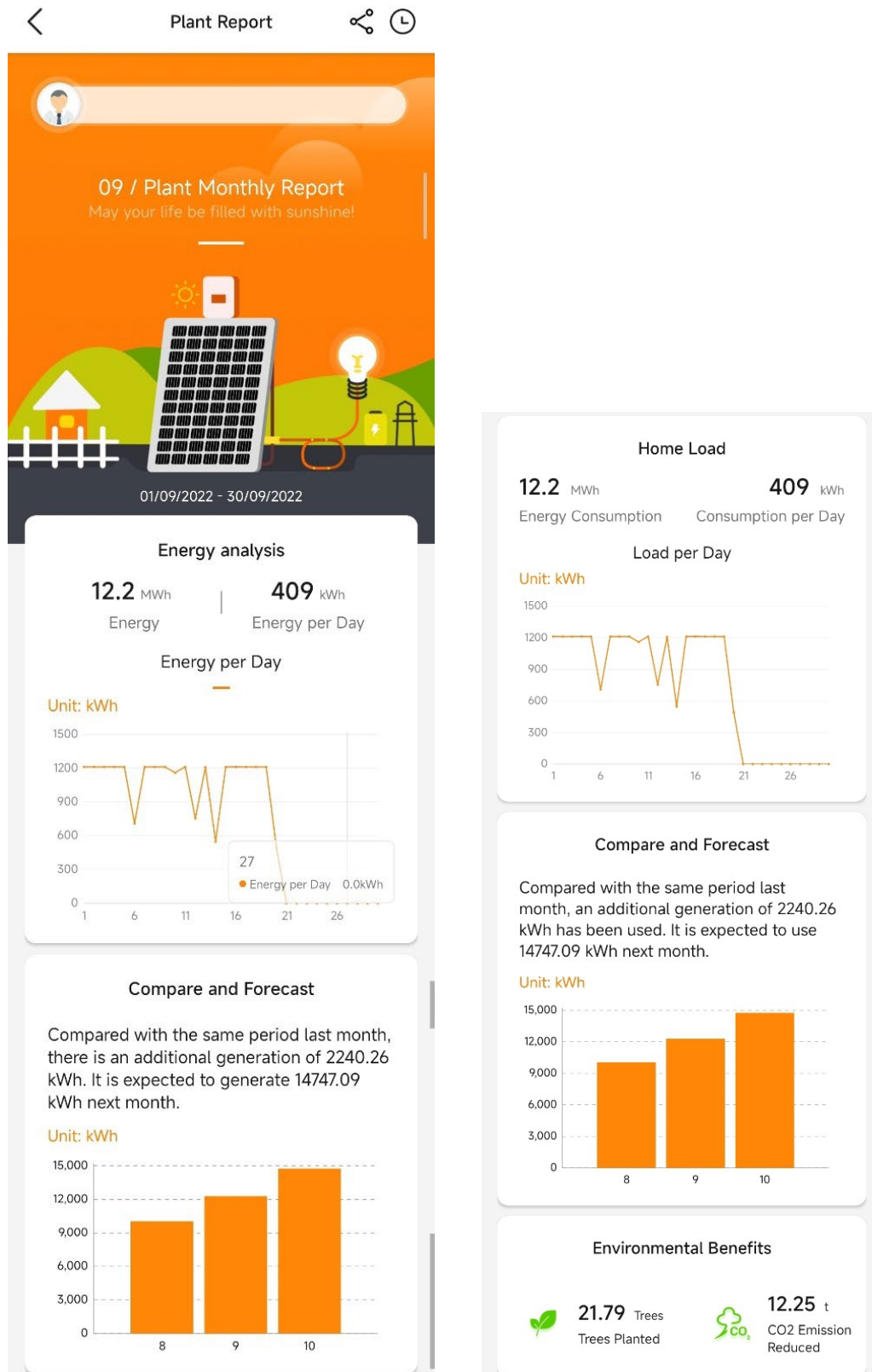
**Power station editing:** you can view and modify the power station;

**Remote configuration (terminal):** You can view and modify the power station, and you can also connect remotely to view data.



### 5.1.5 Power Station Monthly

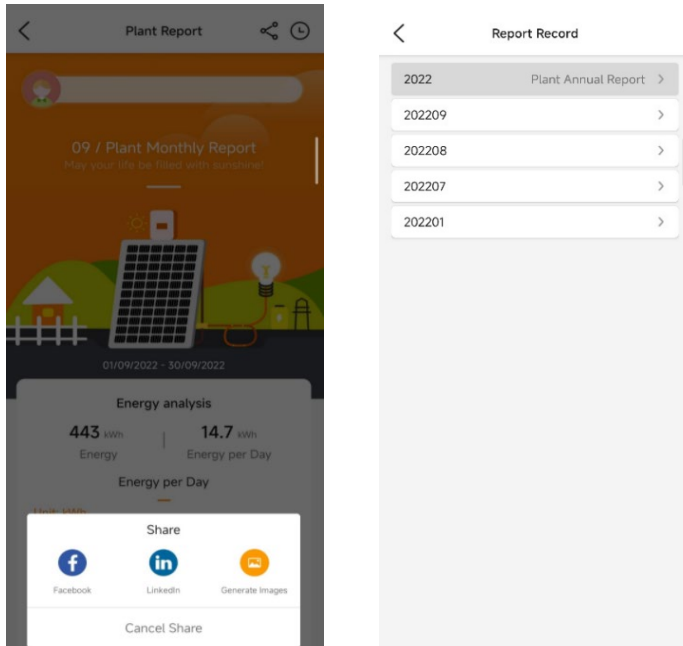
On the "Home Power Station Management" page, click "⋮" > "Power Station Monthly Report", you can check the power station monthly report, including: power generation analysis, power generation year-on-year and forecast analysis, load analysis, load year-on-year and forecast analysis, etc.



On the "Power Station Monthly Report" page, click "Support sharing monthly reports."

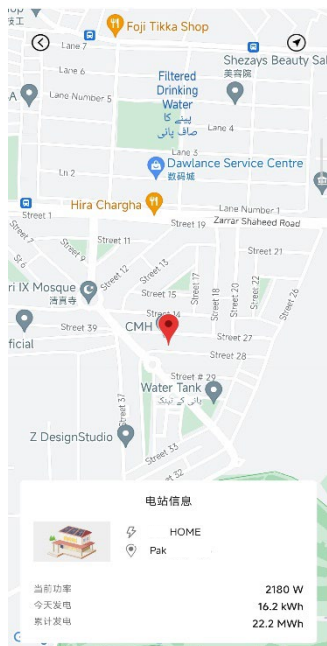


On the "Power Station Monthly Report" page, click "🕒" supports query for more annual and monthly reports.




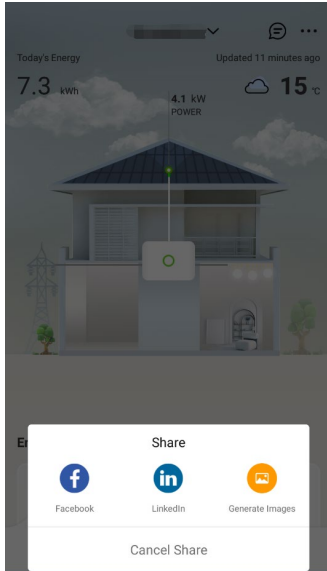
### 5.1.6 Power Station Map

On the "Home Power Station Management" page, click "☰" > "Power Station Map" to view the geographic location of the power station.



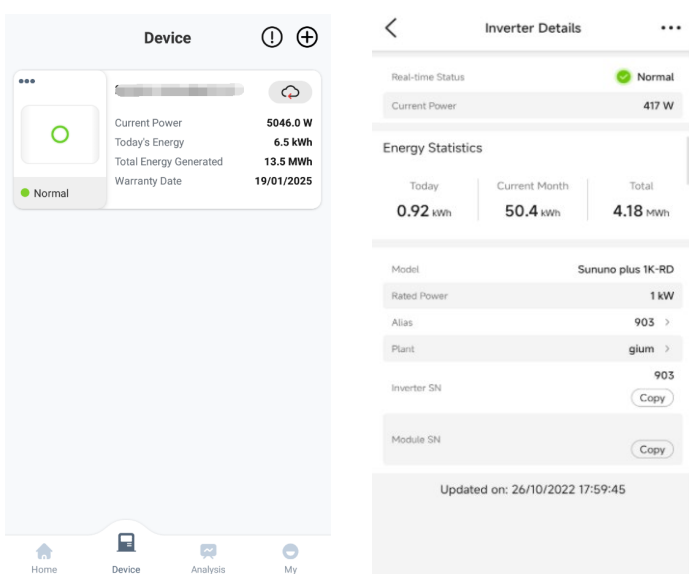
### 5.1.7 Share

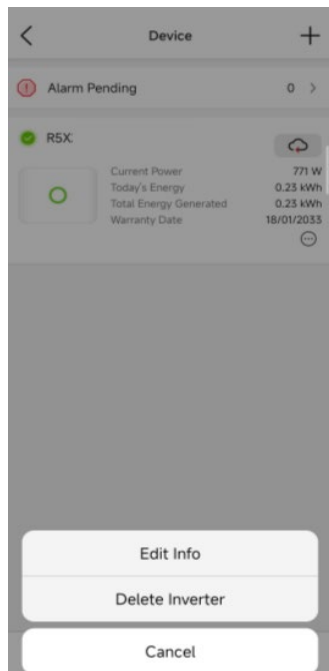
On the "Home Power Station Management" page, click "  ">"Share", you can share the energy situation to Facebook , LinkedIn , etc.




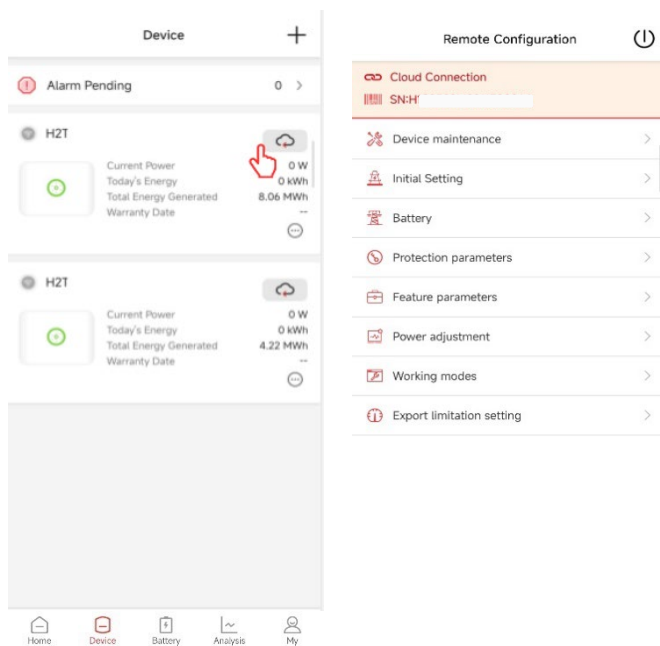
## 5.2 Device Management

On the "Device Management" tab, owners and users can add, delete, query, edit device information, and query device alarm information.





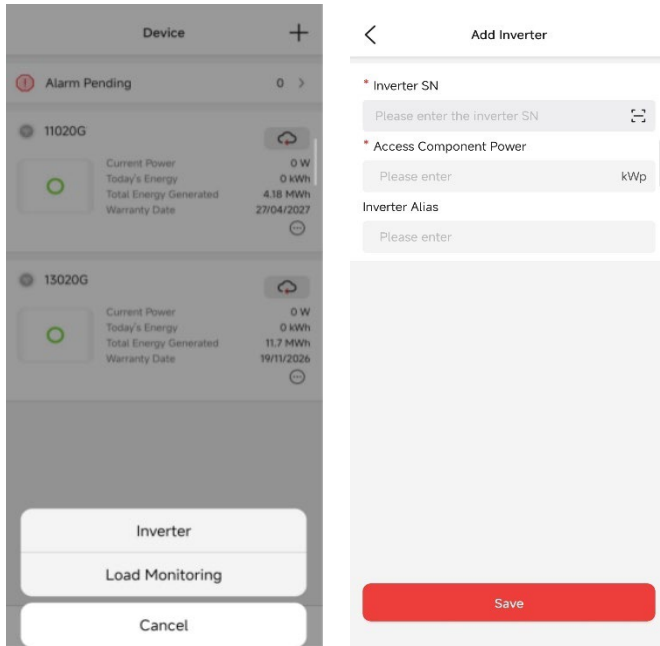
On the "Device Management" page, click "  " to quickly connect the device for parameter setting.



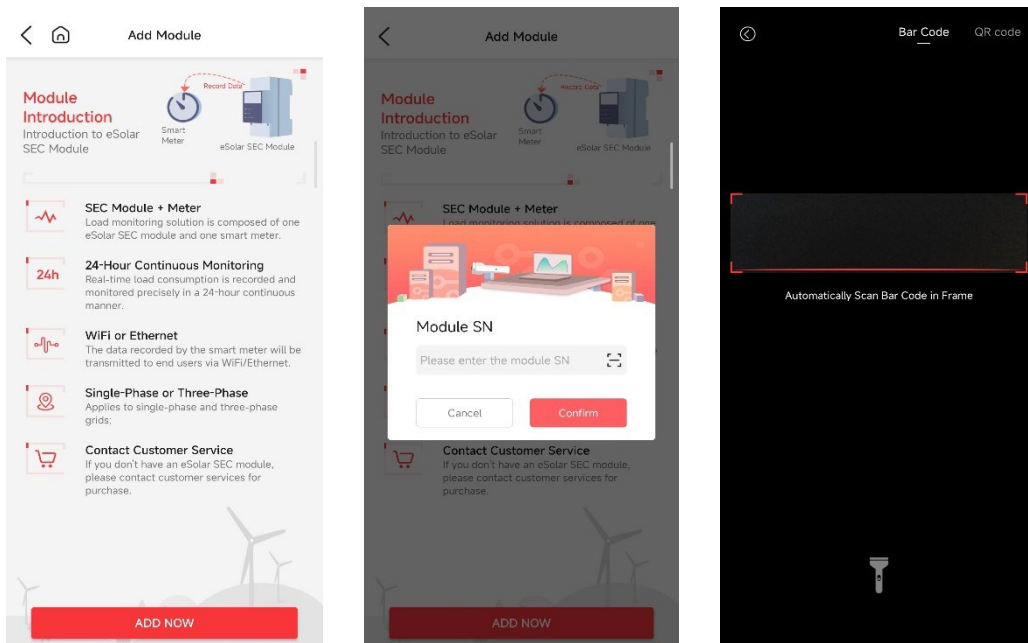
### 5.2.1 Add Device

On the "Device Management" page, click " + " in the upper right corner of the page > select the device type to be added > enter or scan the device SN code to add the device.

Select Add "Inverter" Class Device > Enter or scan "Inverter SN", "Access Component Power", "Device Alias" > click "Save".

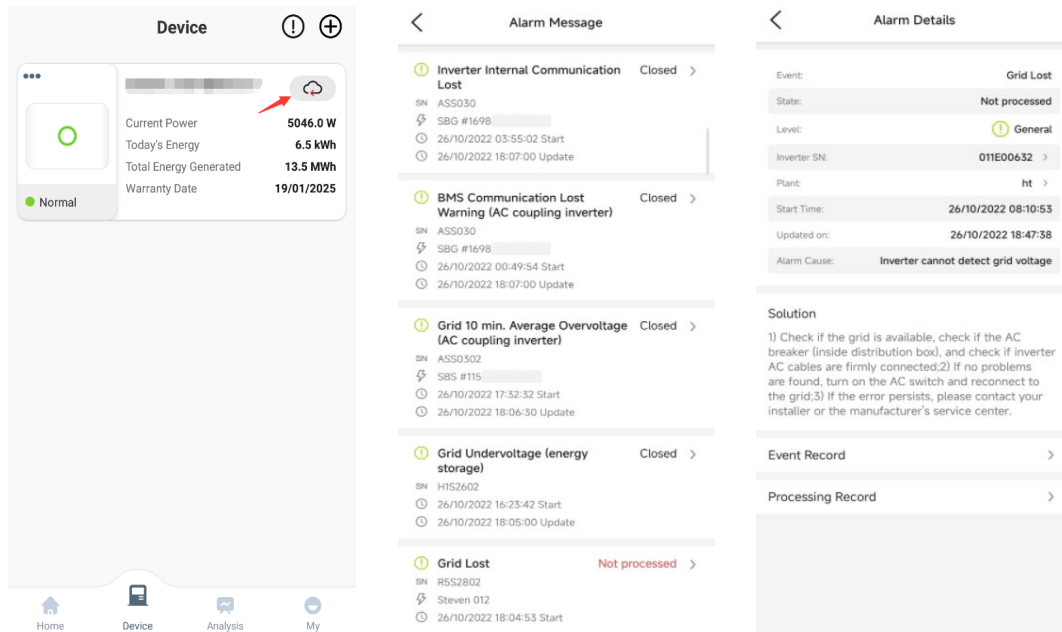


Select Add "Load Monitoring" Class Device > Click "Add" > enter or scan the SN code > click "Confirm".



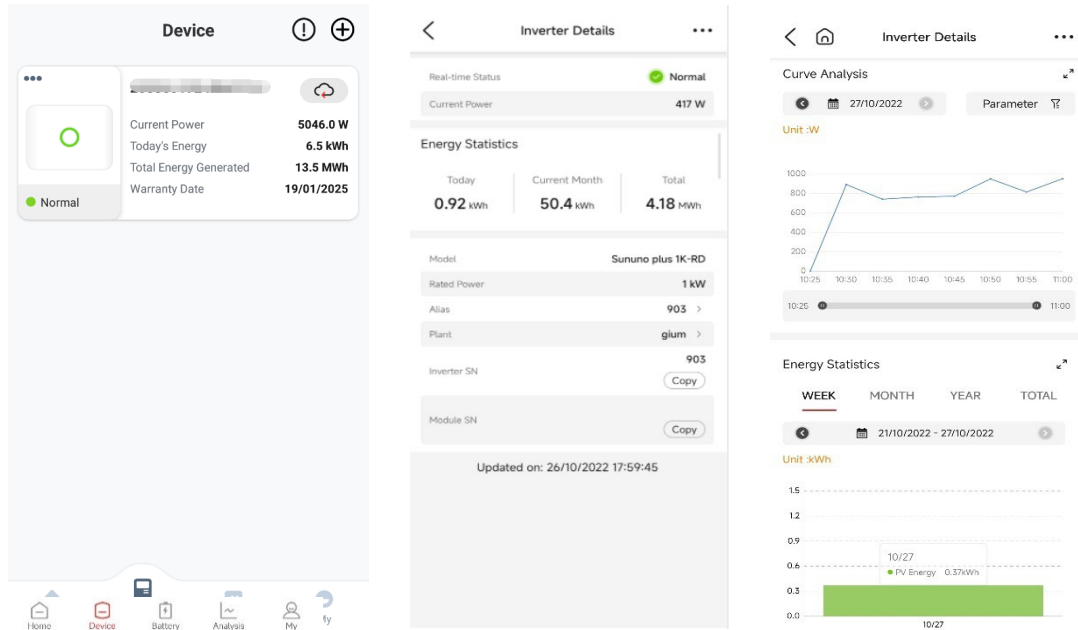
### 5.2.2 Device Alarm

On the "Device Management" page, click "Alarm Pending" in the page " " to query device alarm information, including alarm status, object, time, and suggested solutions.

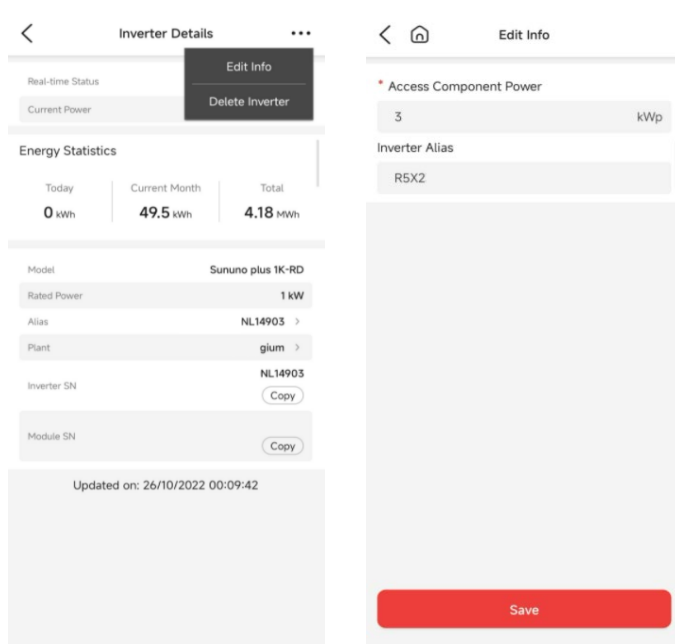


### 5.2.3 Device Details

In the device list on the "Device Management" page, select one of the devices to query the detailed information of the device, including real-time status, current power, power generation statistics, and device parameters.



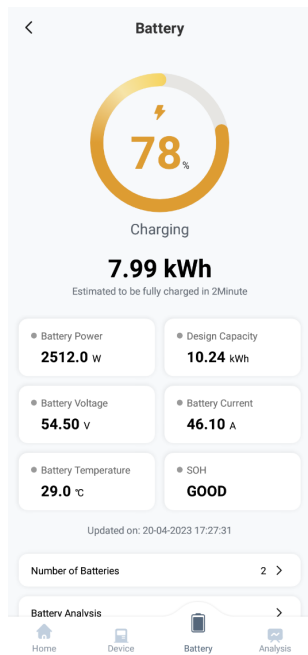
On the "Device Details" page, click " ⋮ " to edit device information or delete a device.



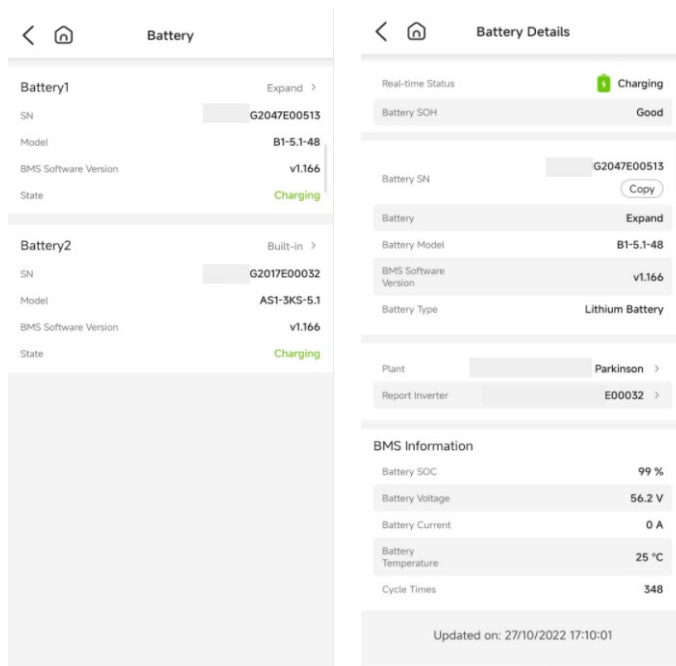
### 5.3 Battery Management

On the "Battery Management" tab, owners and users can query real-time battery power, power, voltage, current, temperature and other parameter information, and support battery SOC analysis.

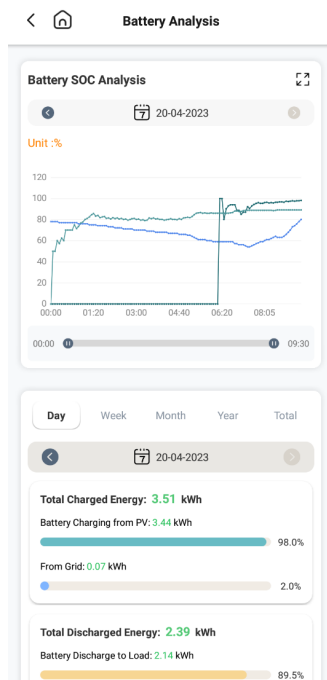
**Battery Details:** Query the battery online/offline status, power, capacity, power, voltage, current, temperature and other information.



**Battery Quantity:** On the "Battery Management" page, click the "Battery Quantity" column to enter the battery information list, and you can query the status, SN, version and model of each battery, and select a battery to query the detailed information of the battery.



**Battery Analysis:** On the "Battery Management" page, click the "Battery Analysis" column to query the battery SOC trend, etc.



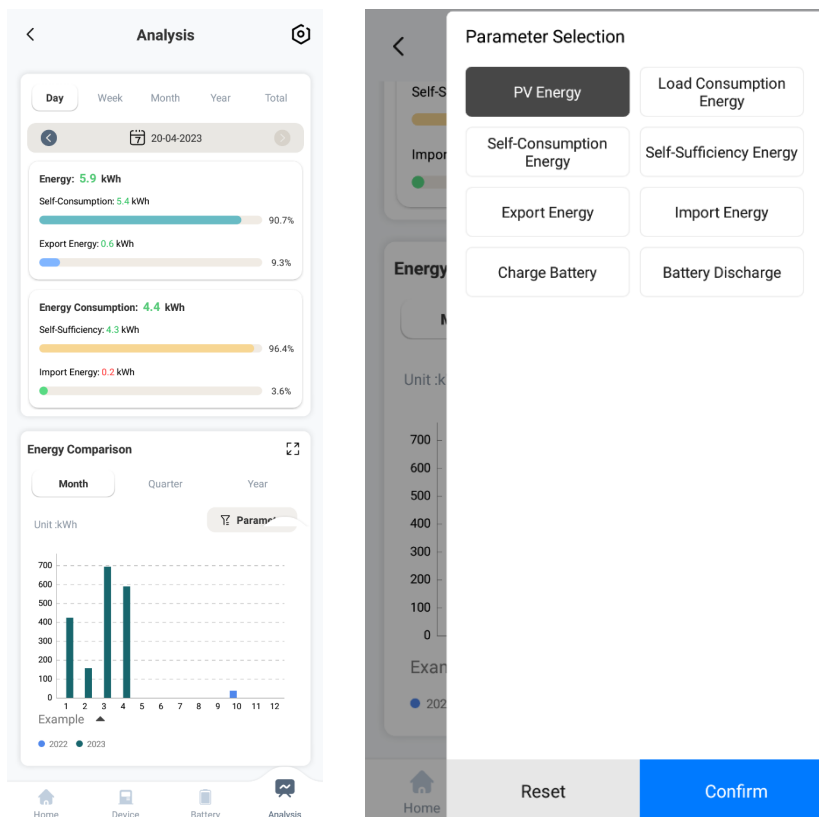


## 5.4 Graph Analysis

On the "Analysis" tab, owners and users can query the cumulative/year/month/week/day power generation, electricity consumption, electricity purchased, and electricity sold, as well as visual charts such as energy year-on-year ratios. All visualization charts support full-screen preview and sharing functions.

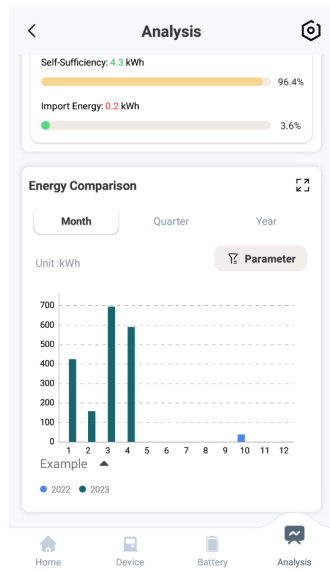
### 5.4.1 Grid-connected power station diagram analysis

**Curve analysis:** X-axis is time, Y-axis is custom parameters, click "parameters" to define multi-dimensional analysis parameters: total AC output power, power generation curve, DC power, DC current, DC voltage, etc., support custom analysis date.

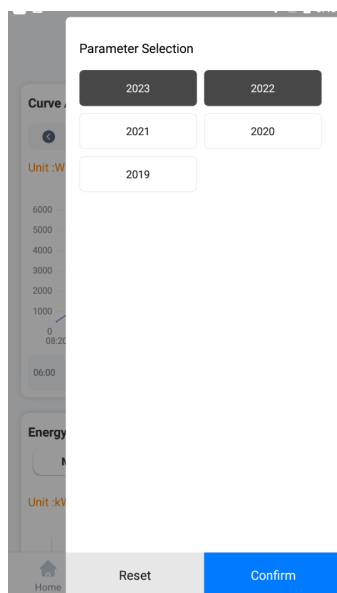
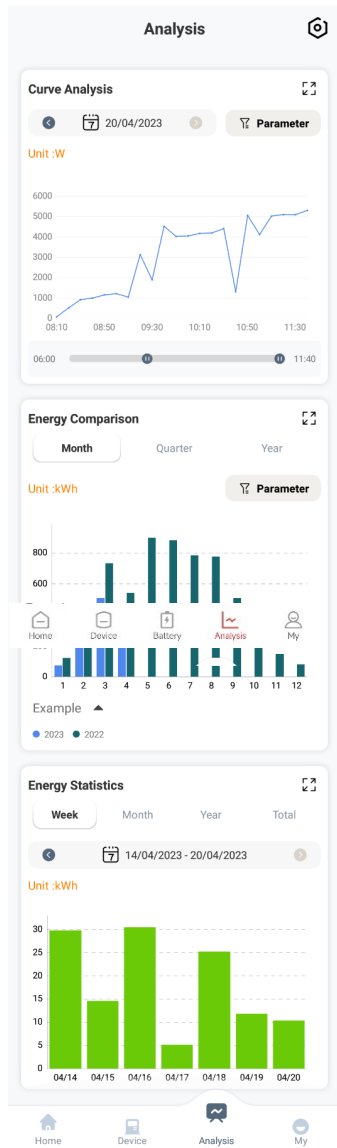


**Power generation statistics:** In the curve analysis, select the "power generation

curve" parameter on the Y axis to query the power generation curve graph.



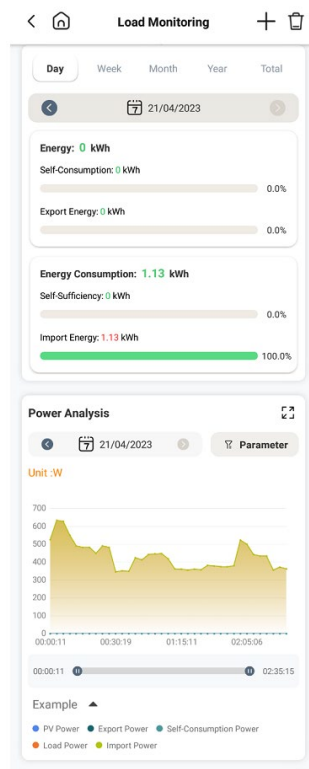
**Power generation comparison:** X-axis is time, Y-axis is power generation, you can choose year/quarter/month, support year/quarter/month year-on-year analysis, and support custom analysis time.



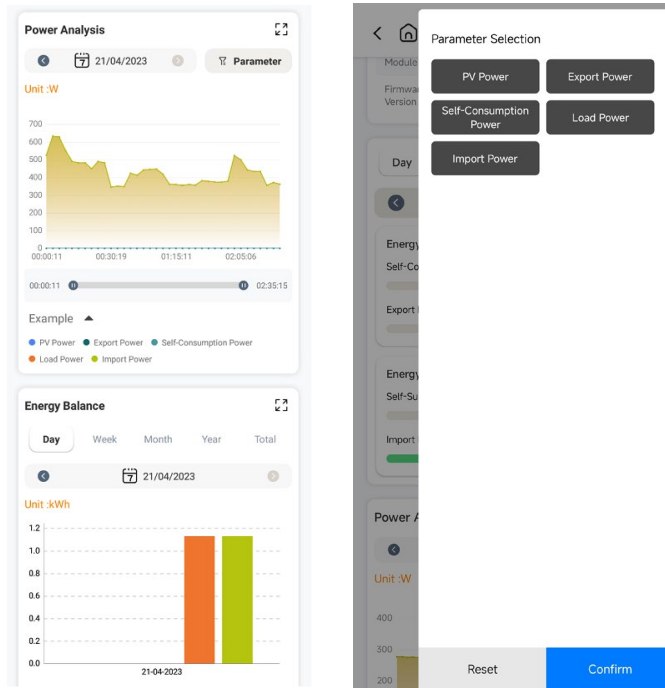
## 5.4.2 Load monitoring chart analysis

### self-consumption/self-sufficiency:

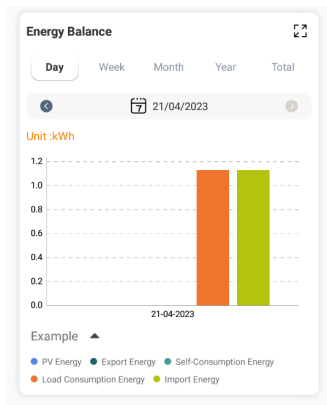
Statistics can be accumulated/year/month/week/day, electricity generation/selling electricity, electricity consumption/buying electricity.



**Power analysis:** X-axis is time, Y-axis is power, click "parameters" to select: p v power generation, selling power, self-consumption power, load power, buying power, support custom analysis time.



**Energy balance:** X-axis is time, Y-axis is power, power includes: PV power generation, sales power, self-generated power, load power consumption, purchased power, bar chart comparison analysis, supports custom analysis Time granularity: cumulative / Year/Month/Week / Day.

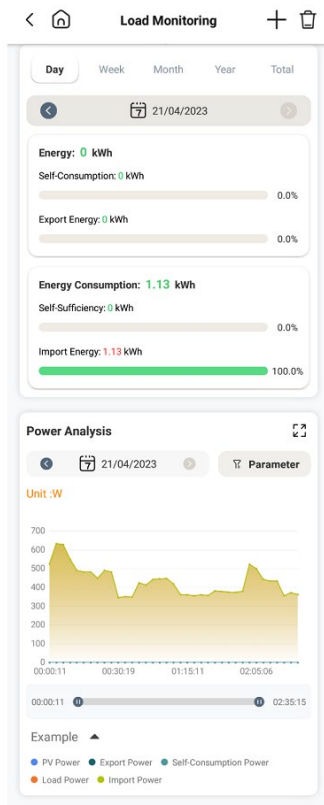


### 5.4.3 Chart Analysis of Energy Storage/AC Coupled Power

#### Plant

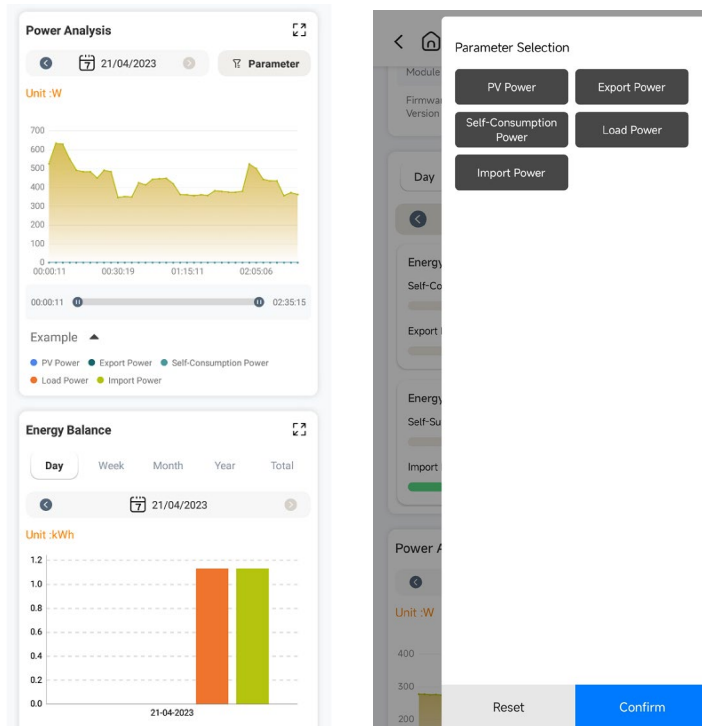
and self-consumption/self-sufficiency:

Statistics can be accumulated/year/month/week/day, electricity generation/selling electricity, electricity consumption/buying electricity.

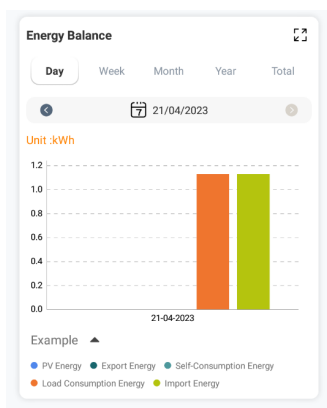


**Power analysis:** X-axis is time, Y-axis is power, click "parameters" to choose: pv power generation, selling power, self-generated power, load power, buying power.

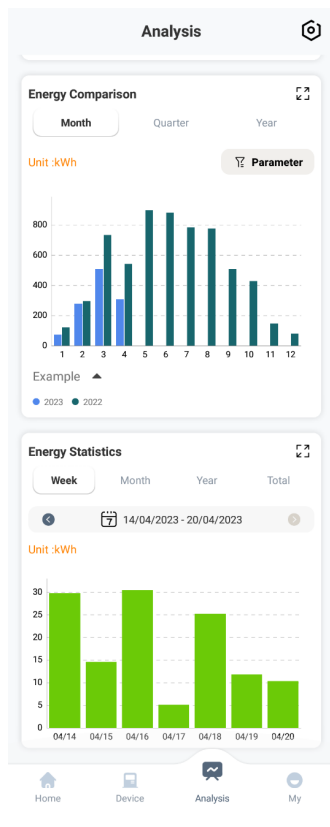
Support custom analysis time.



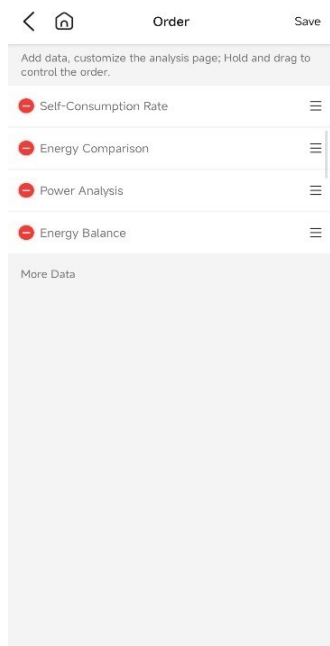
**Energy balance:** X-axis is time, Y-axis is power, power includes: pv power generation, sales power, self-generated and self-consumption, load power consumption, purchased power, bar chart comparative analysis, support for custom analysis Time granularity: cumulative /year/month/week/day.



**Energy comparison:** X-axis is time, Y-axis is energy, year/quarter/month can be selected, and year-on-year/quarter/month year-on-year analysis is supported.



In the "Analysis" page, click "⌵" in the upper right corner to customize the analysis charts and chart order of the page, including: spontaneous self-consumption rate, energy comparison, energy balance, power analysis, etc.

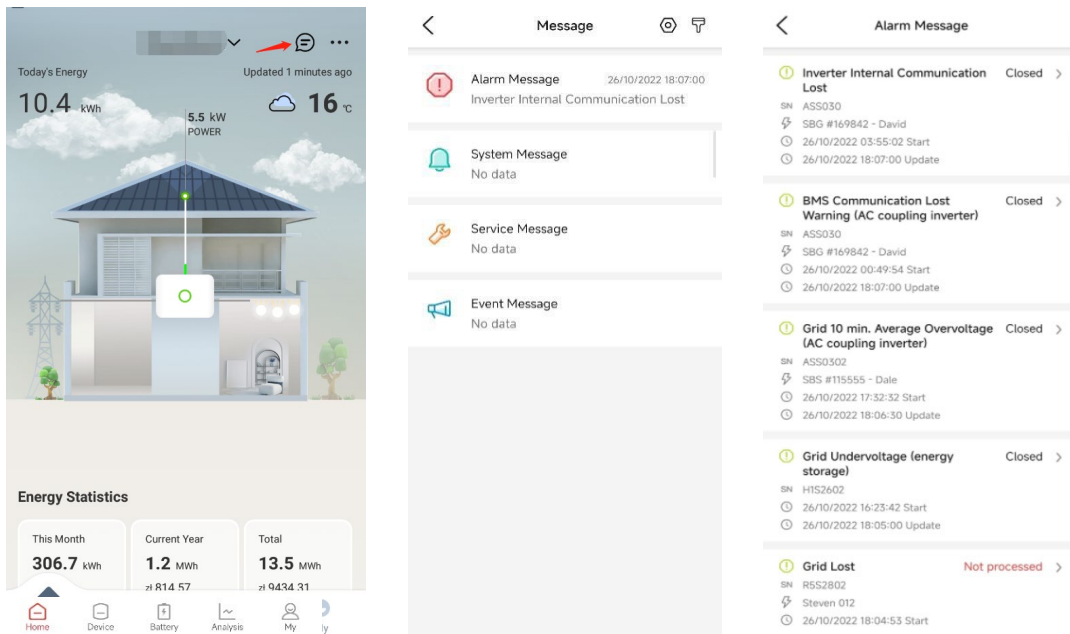




## 5.5 Message Management

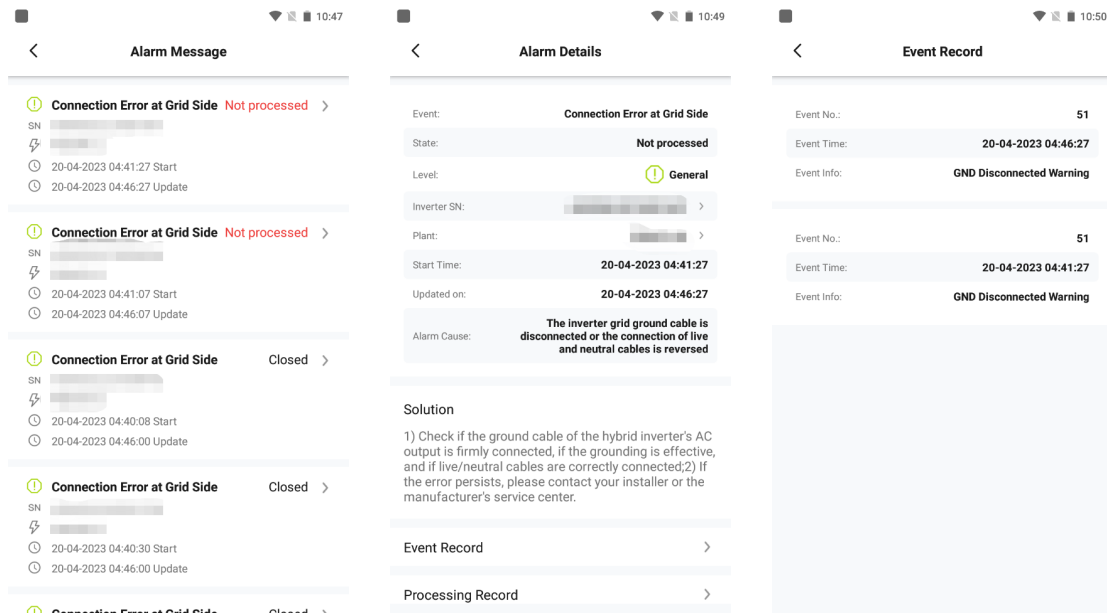
On the "Home Power Station Management" tab, click "☰" to enter the "Message Management" page.

On the "Message Management" page, owners and users can query the push messages, including: alarm messages, system messages, service messages, and event messages. Click on the top right "🔔", you can set whether to receive messages, click "🗑️" to clear unread messages.



### 5.5.1 Alert Message

The alarm message list includes pending, processed, and closed alarm information. Open a specific alarm event to view the alarm level, object, time, cause, solution, event record, processing record and other information.



### 5.5.2 Other News

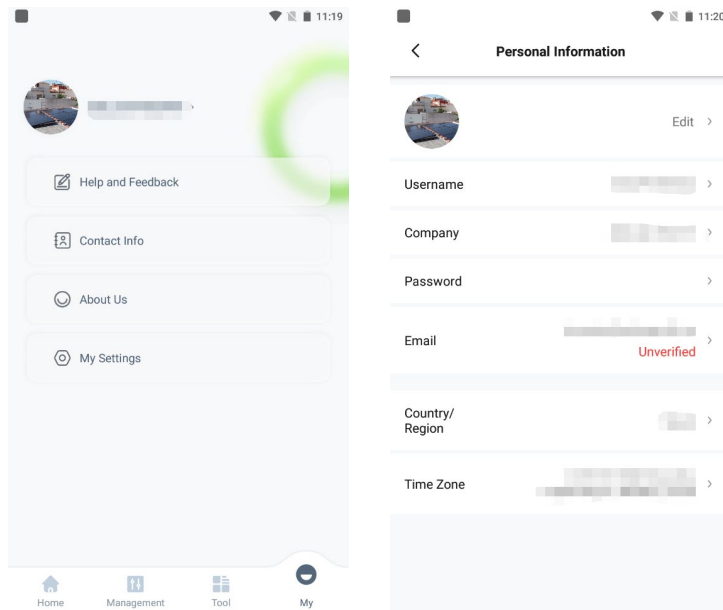
Including: system messages, service messages, activity messages.

## 5.6 My Management

On the "My Management" tab, owners and users can edit personal information, perform after-sales service, remote configuration, warranty inquiry, and set preferences.

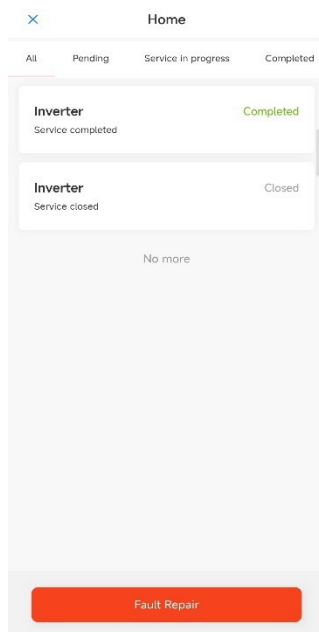
### 5.6.1 Personal Information

On the My Admin page > Click on "Personal Information" > Click your profile picture to edit your profile picture, username, nickname, password, bound email, country/region, time zone and other information. ( Note: The username can only be changed once a year.)



### 5.6.2 After-sales Service

On the My Admin page > Click "After-sales Service" to inquire about after-sales service related information. For details, please refer to the "eSAJ Service User Manual".



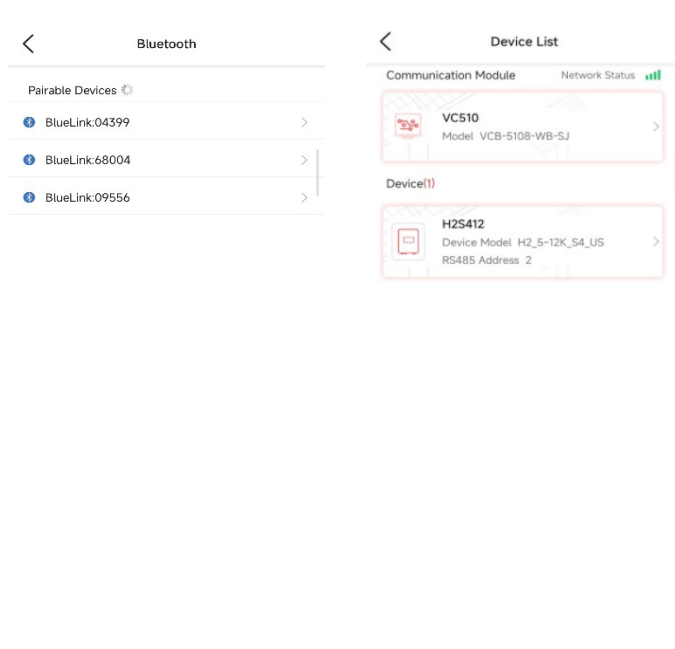
### 5.6.3 Remote configuration

On the "My Management" page > click "Remote Configuration" to perform remote configuration, supporting Bluetooth, WiFi, and cloud connection methods.

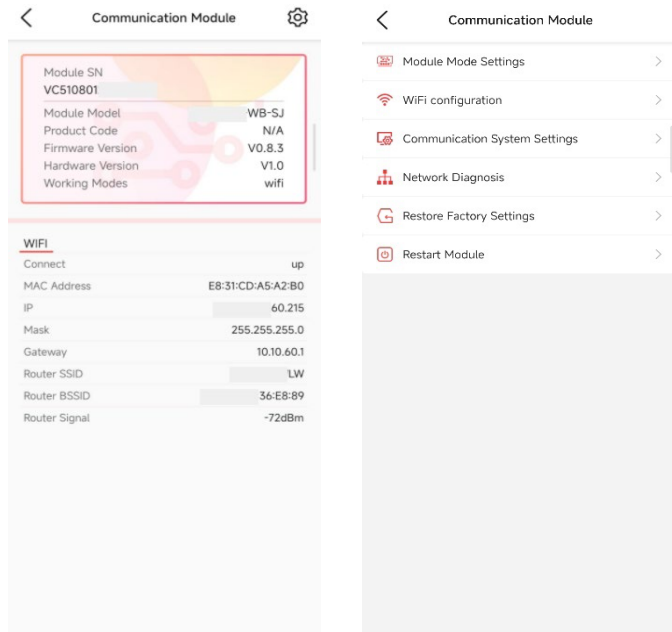


**Bluetooth:** ( Note: Please turn on the Bluetooth of the inverter device and mobile phone, and ensure that the communication module is connected normally. )

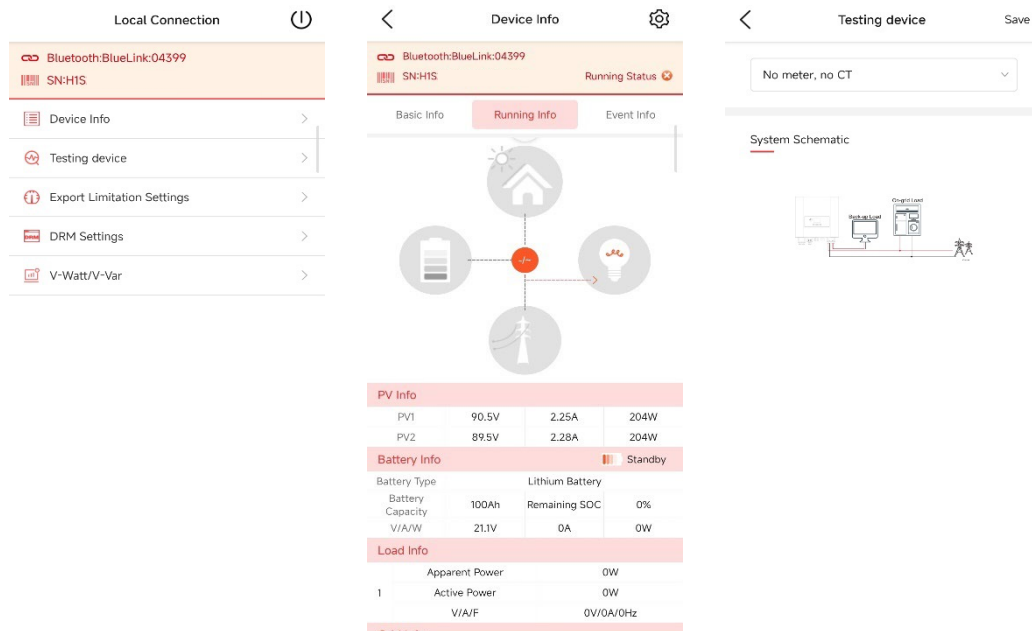
Select Pairable Devices via Bluetooth > Select the corresponding module and make related settings.

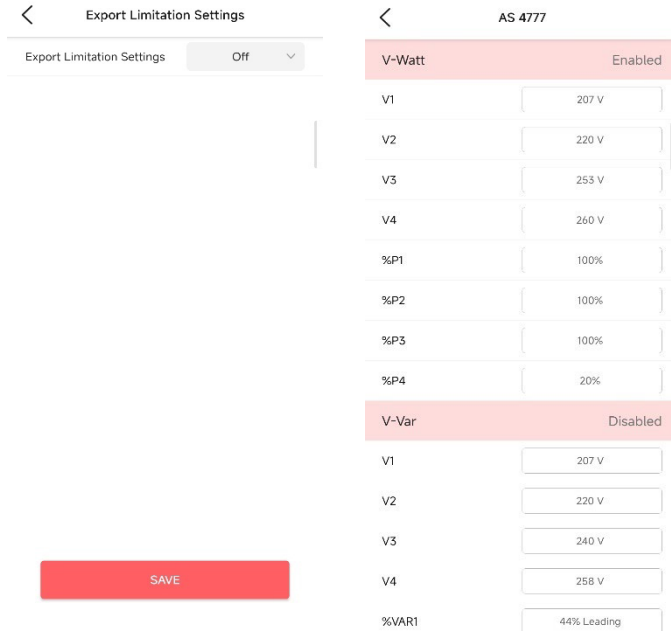


Communication module settings: (module mode settings, WiFi configuration, communication system high configuration, network diagnosis, etc.)



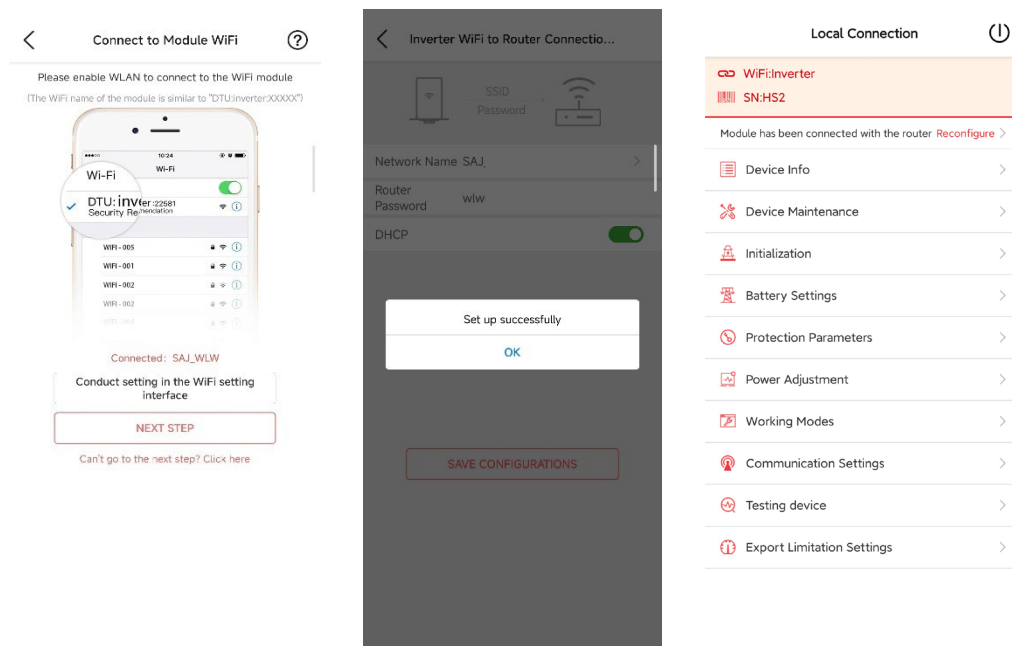
Inverter equipment settings: (equipment information, testing equipment, anti-backflow settings, parallel settings, debugging entrance)





**Wi - Fi :** ( Note: Please turn on the WiFi of the inverter device and mobile phone, and make sure that the communication module is connected normally.)

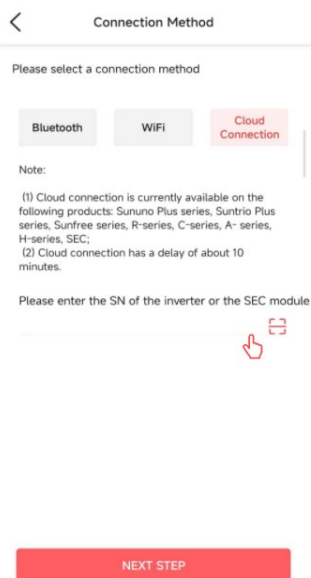
Please enable WLAN name usually starts with "DTU: inverter: XXXXX ". After setting and connecting successfully, you can configure device information, battery settings, communication settings, etc.



**Cloud connection:** Note: Currently supported models include: Sununo Plus series,

SuntrioPlus series, Sunfree series, R series, C series, A series, H series, SEC.

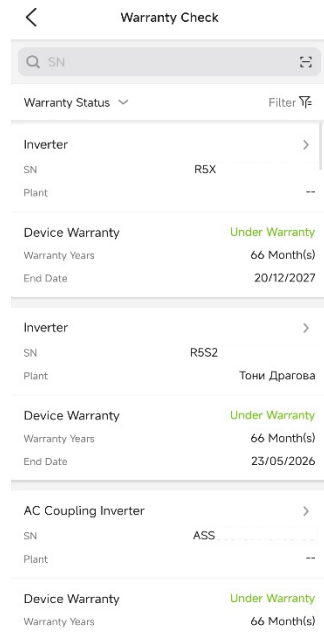
Enter or scan the inverter/ SEC module SN code.



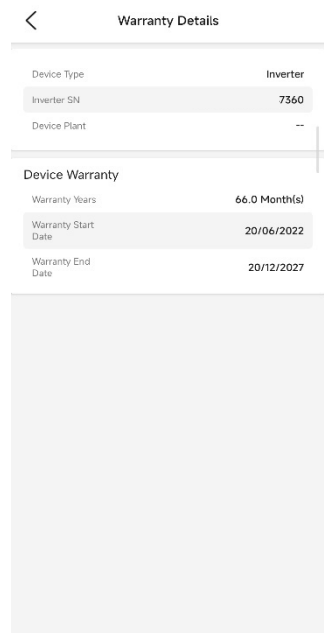
### 5.6.4 Warranty Inquiry

On the "My Management" page > click "Warranty Inquiry" > After entering or scanning the SN code of the device, you can query the relevant information of the device warranty.

Equipment warranty list:

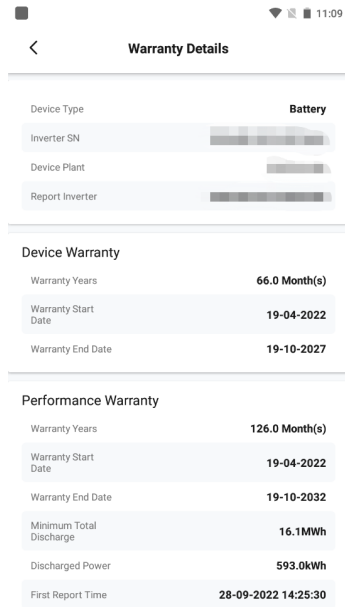


**Inverter warranty details:**



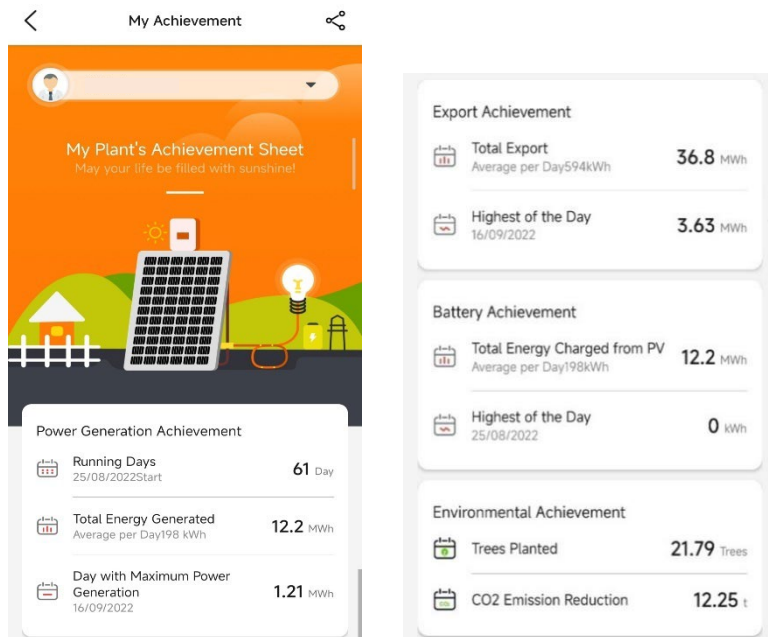
**Battery Warranty Details:**





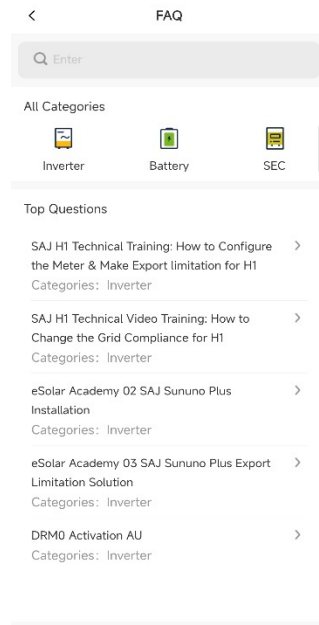
### 5.6.5 my achievements

On the "My Management" page > click "My Achievements", you can check the power station transcripts, including: power generation achievements, electricity sales achievements, battery achievements, environmental achievements, and the transcripts can be shared to Facebook , Linkedin , etc.



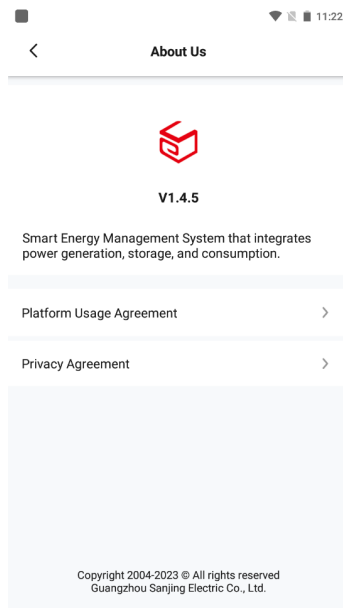
## 5.6.6 common problem

On the "My Management" page > click "FAQs" to inquire about common problems and solutions.



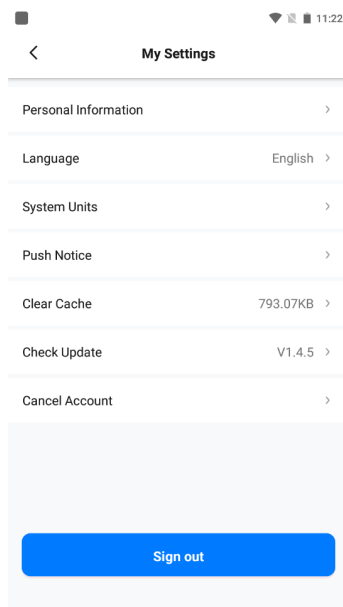
## 5.6.7 About Us

On the "My Management" page > click "About Us", you can query the system version, platform usage agreement, privacy agreement and other information.



## 5.6.8 My Settings

On the "My Management" page > click "My Settings", you can set personal preferences, including: language, system units, message push, and operations such as clearing the cache, checking for updates, and canceling the account.

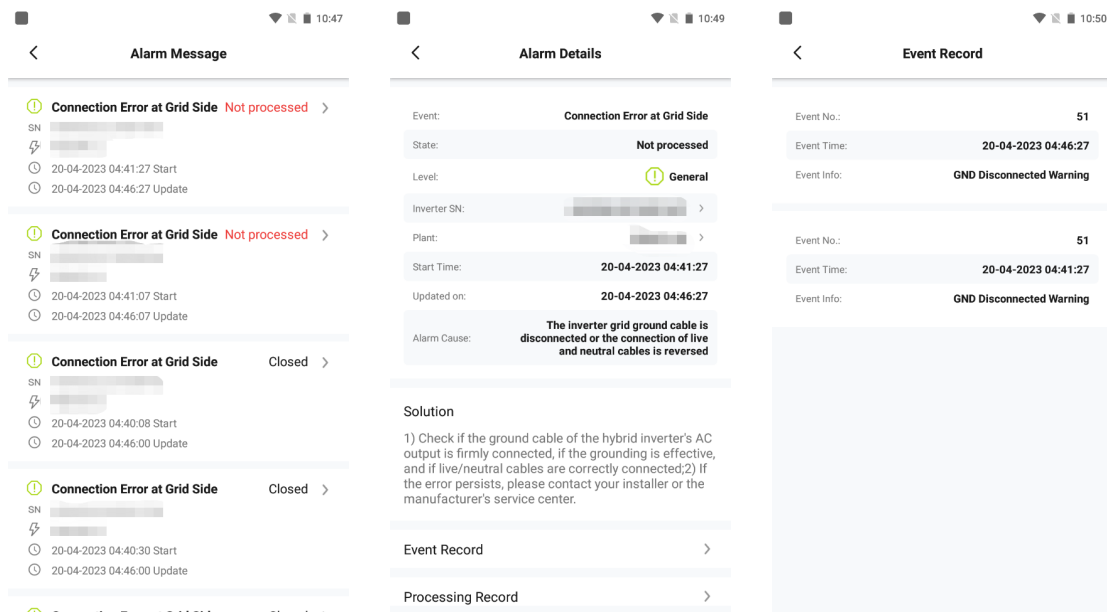


## 6 I Am a Reseller / Installer

Reseller / installer users can statistically analyze power station/equipment information, comprehensive management, message management, use toolbox, remote configuration, etc. through the e SAJ Home App.

### 6.1 Message Management

On the Alarm Management tab, you can view alarm information, event records, handling records, and suggested solutions. And support to filter alarm information according to pending, processed, closed, urgent/important/general.



### 6.1 Statistics Overview

On the "Overview" tab, users of dealers/installers can inquire about the cumulative power generation, total installed capacity, pending alarm information, and the operation overview of various equipment. Click to enter the equipment details page.



## 6.2 Comprehensive Management

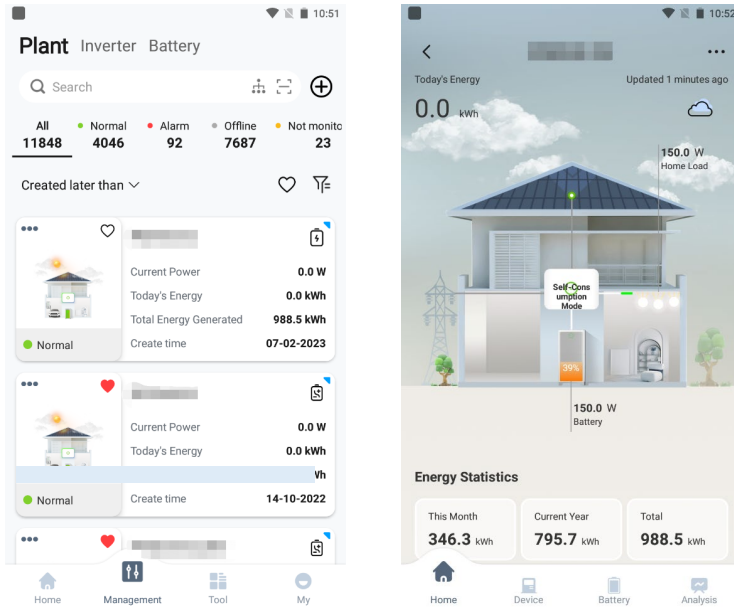
On the "Comprehensive Management" tab, users of dealers/installers can comprehensively manage power plants, inverters, batteries and other equipment.

### 6.2.1 Power Plant Management

On the "General Management" page, click the icon in the upper left corner to switch the device type (power station, inverter, battery).

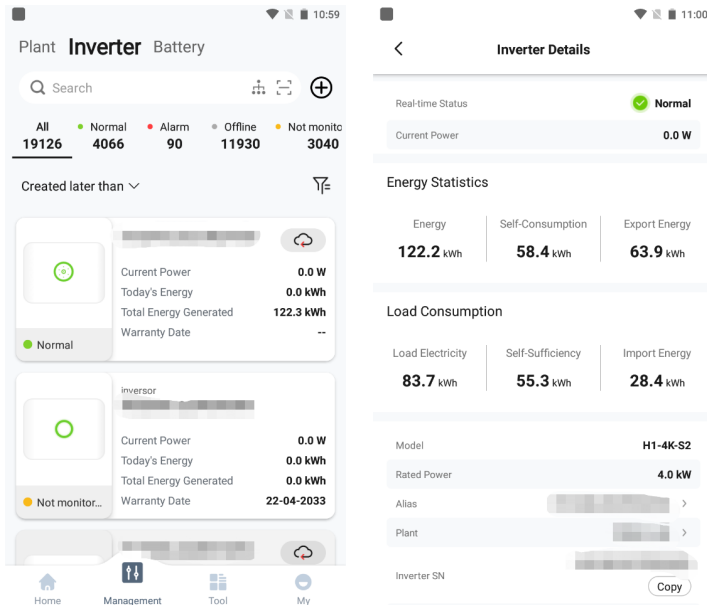
Select the "Power Station" device to query the overview, alarm, power generation overview and other information of all bound power stations. Click on a specific power station to view detailed information on the power generation, power consumption, and environmental benefits of the power station. (The options in the

TAB column at the bottom of the page are the same as those for owner users.)



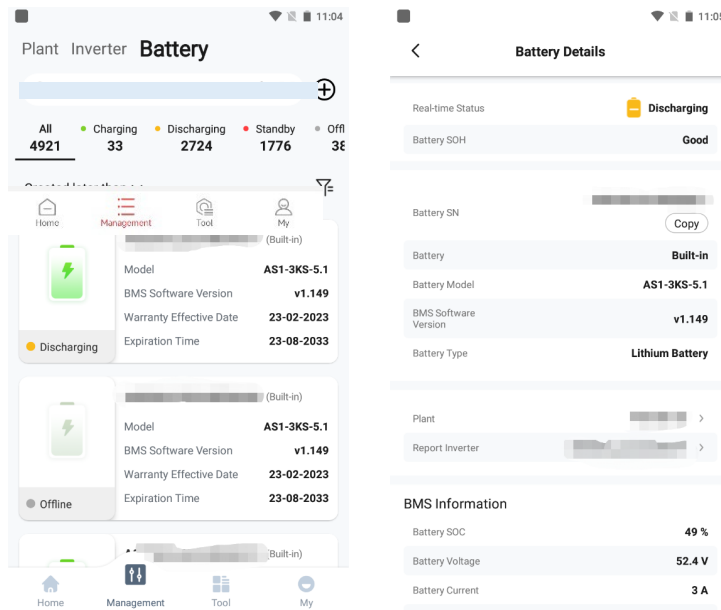
## 6.2.2 Inverter Management

Select the "Inverter" device to query the overview, alarm, power generation status and other information of all bound inverters. Click a specific inverter to view the inverter's real-time status, power, power generation, equipment information and other detailed information.



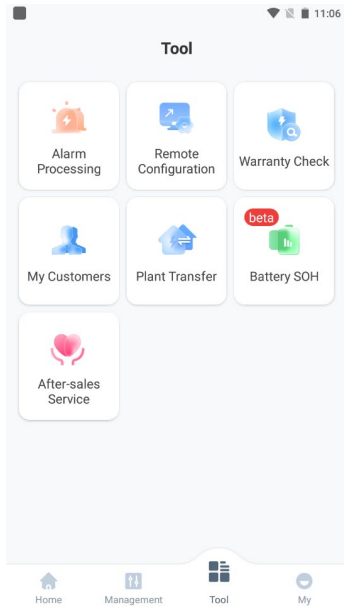
## Battery Management

Select the "Battery" device to query the charge and discharge status, battery model and other information of all bound batteries. Click on a specific battery to view the battery's real-time status, health, battery model parameters and other detailed information.



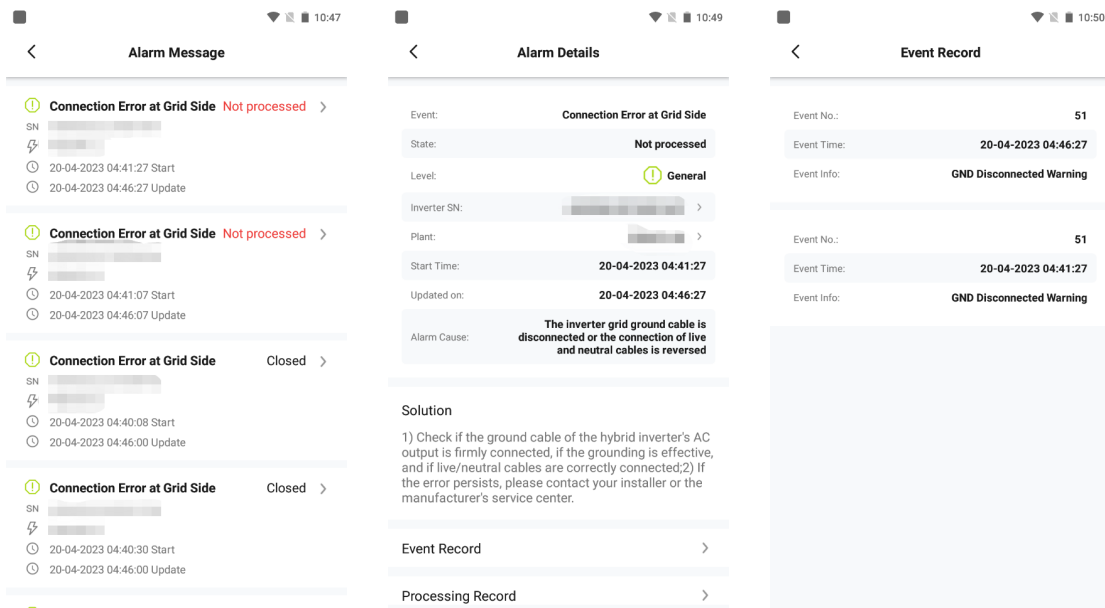
## 6.3 Toolbox

On the "Toolbox" tab, dealer/ installer users can perform operations such as alarm processing, remote configuration, warranty inquiry, power station transfer, battery health analysis, after-sales service, and after-sales management.



### 6.3.1 Alarm Management

On the Toolbox page > Click "Alarm Management" to query all device alarm information, event records, processing records, and suggested solutions. And support to filter alarm information according to pending, processed, closed, urgent/important/general.





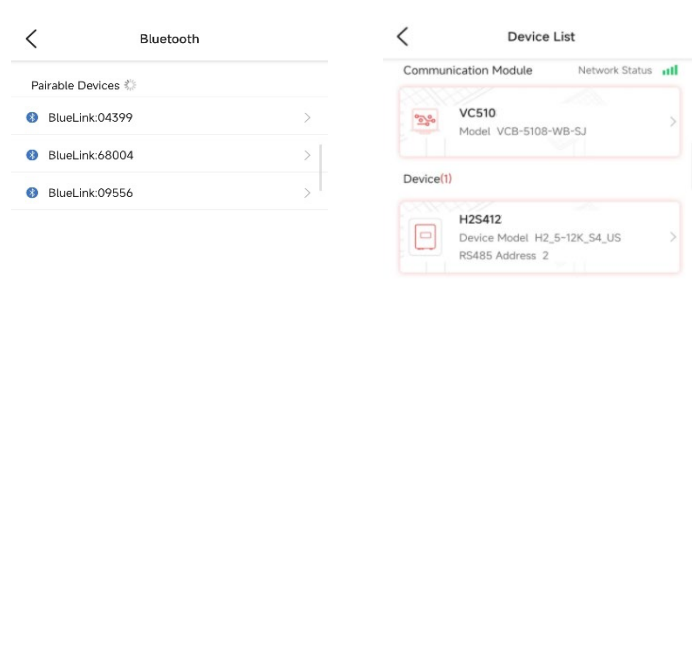
### 6.3.2 Remote Configuration

On the Toolbox page > Click "Remote Configuration" to perform remote configuration, and support Bluetooth, WiFi , and cloud connection methods.

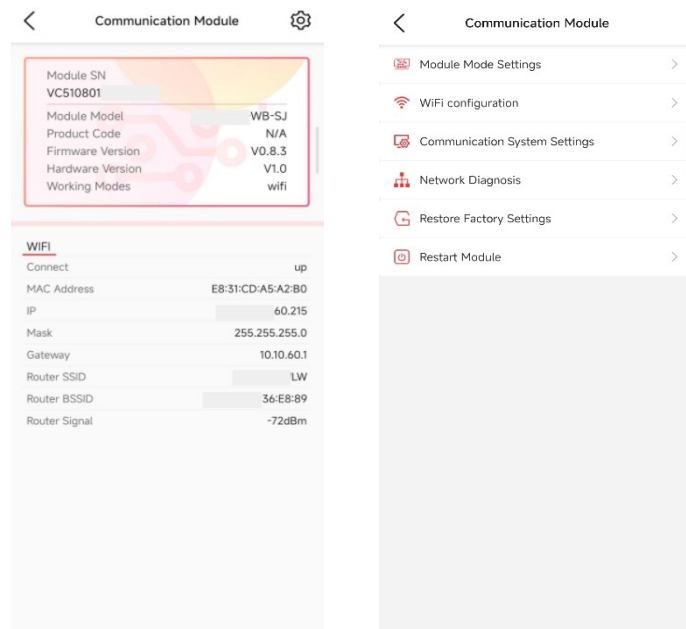


**Bluetooth:** ( Note: Please turn on the Bluetooth of the inverter device and mobile phone, and ensure that the communication module is connected normally. )

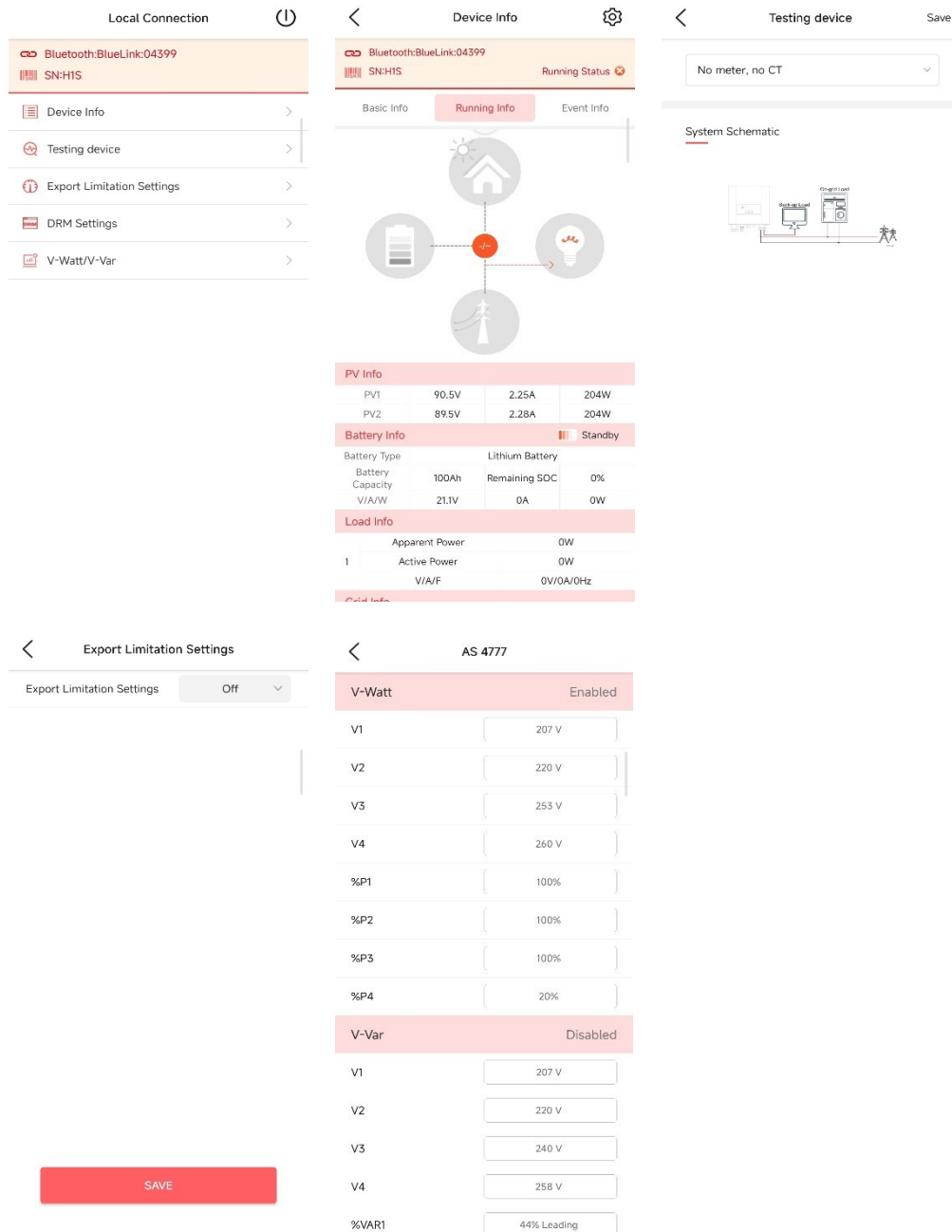
Pairable Devices via Bluetooth > Select the corresponding module and make related settings.



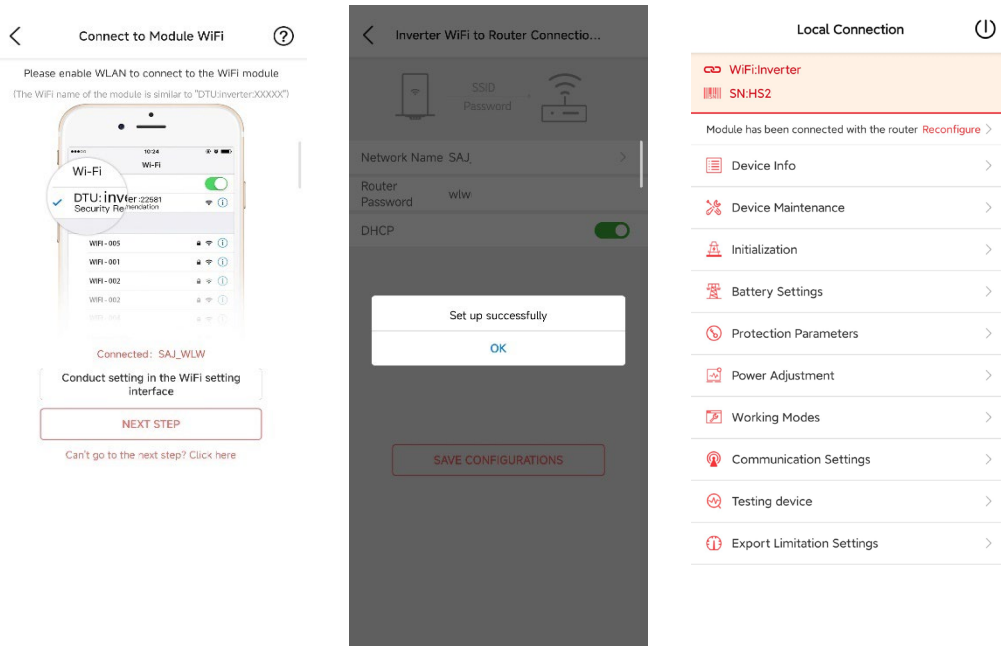
Communication module settings: (module mode settings, WiFi configuration, communication system high configuration, network diagnosis, etc.)



Inverter equipment settings: (equipment information, testing equipment, anti-backflow settings, parallel settings, debugging entrance)

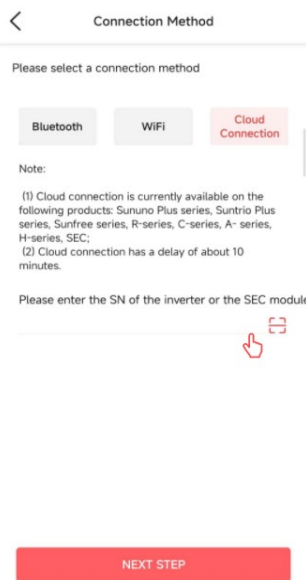


**Wi - Fi :** ( Note: Please turn on the WiFi of the inverter and mobile phone , and make sure that the communication module is connected properly.)  
 module Wi Fi name usually starts with "DTU: i nverter: XXXXX ". After setting and connecting successfully, you can configure device information, battery settings, communication settings, etc.



**Cloud connection:** Note: Currently supported models include: Sununo Plus series, SuntrioPlus series, Sunfree series, R series, C series, A series, H series, SEC.

Enter or scan the inverter/ SEC module SN code.

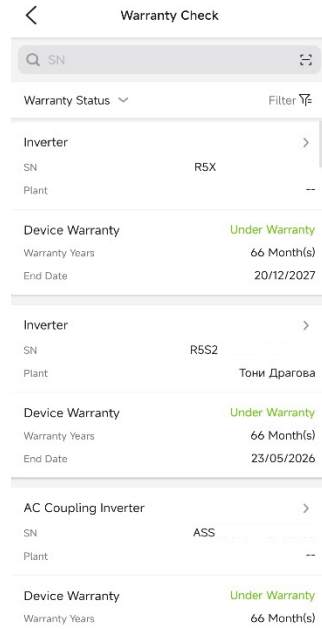


### 6.3.3 Warranty Inquiry

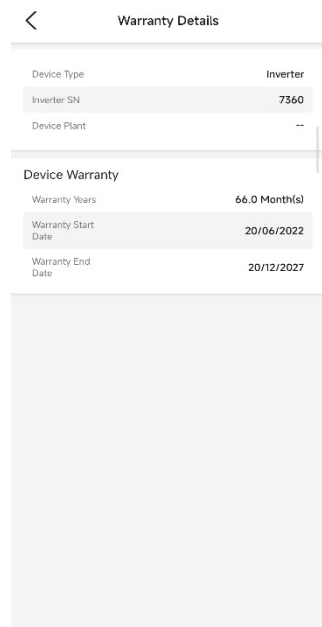
On the Toolbox page > Click "Warranty Inquiry" and enter or scan the SN code of

the device to inquire about the warranty information of the device.

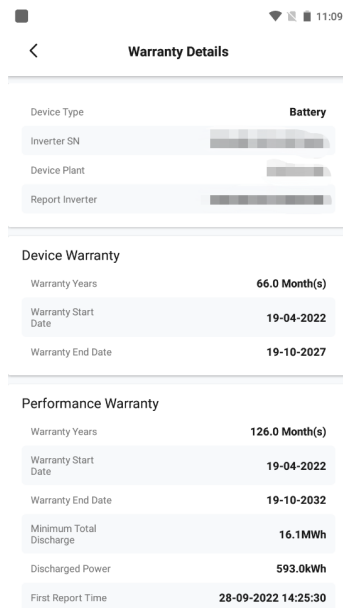
### Equipment warranty list:



### Inverter warranty details:



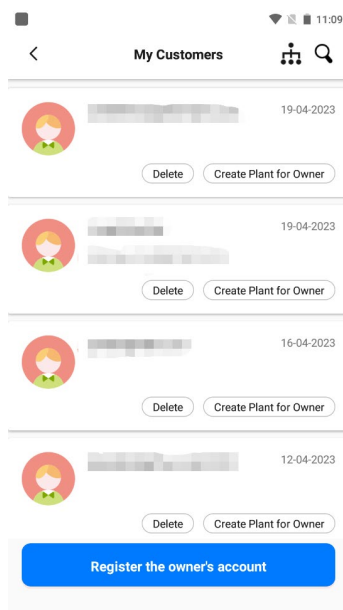
### Battery Warranty Details:



### 6.3.4 My Client

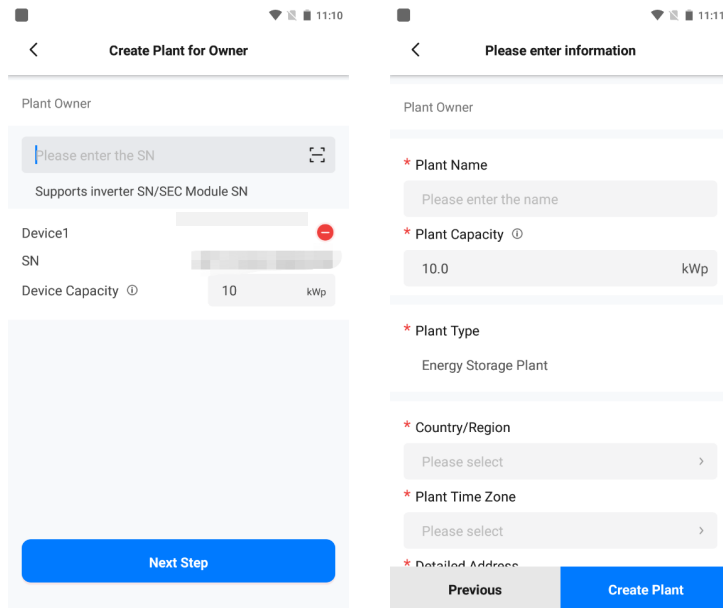
On the Toolbox page > Click "My Customers" to inquire about customer information.

List of my clients:

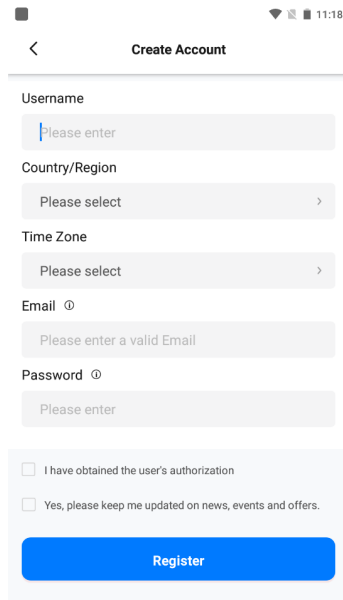


Support the construction of power stations for the owner and user, click "Build a

Power Station" > enter the SN code > Enter the power station name, power station type and other information> "Create" will do.



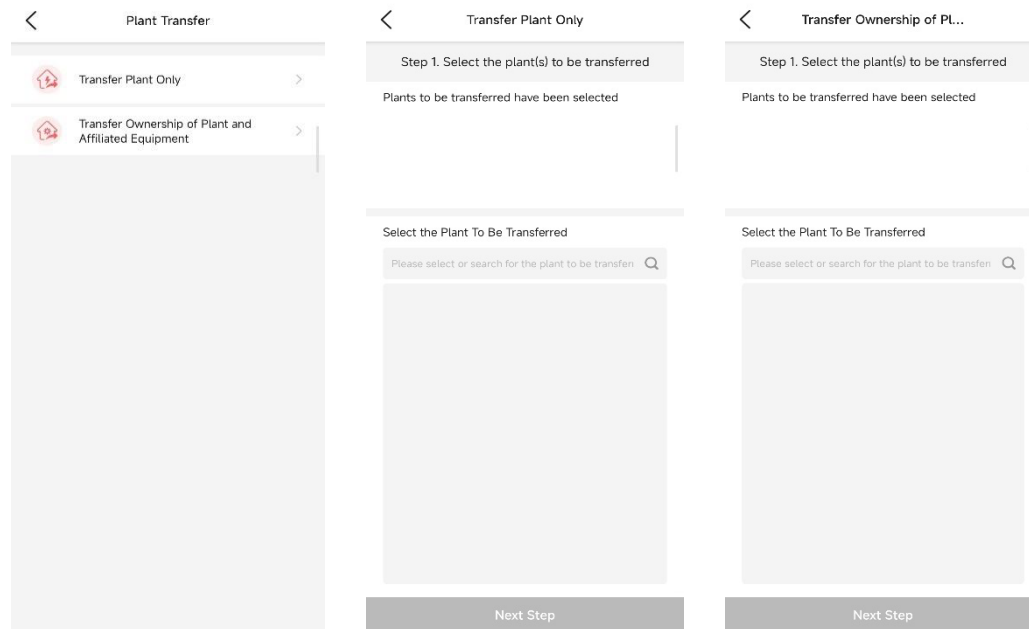
Click "Create Owner Account", enter the user name, country/region and other information to register the owner account.



### 6.3.5 Power Station Transfer

On the Toolbox page > Click "Power Station Transfer", you can select "Transfer

Power Station Only" or "Transfer Power Station and Its Subsidiaries" to transfer power station.



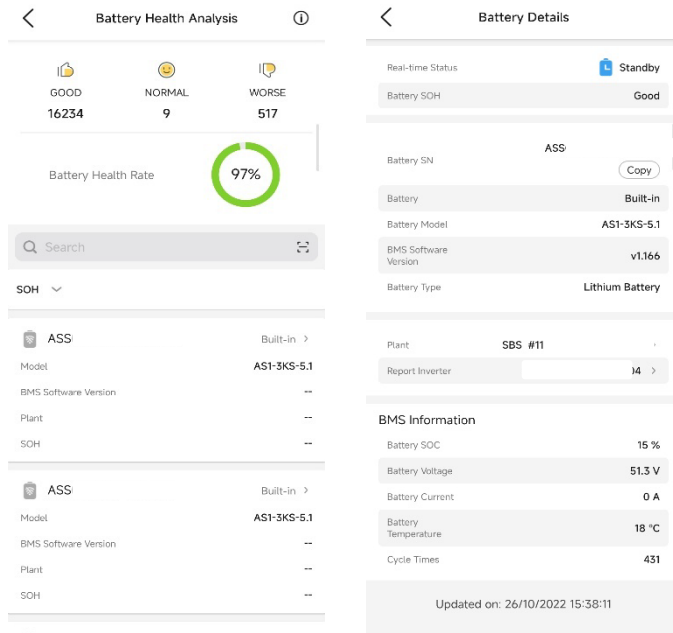
### 6.3.6 Battery Health Management

On the Toolbox page > Click "Battery Health Management" to query and analyze detailed information such as battery health status, battery model parameters, etc.

Description of the battery health calculation formula:

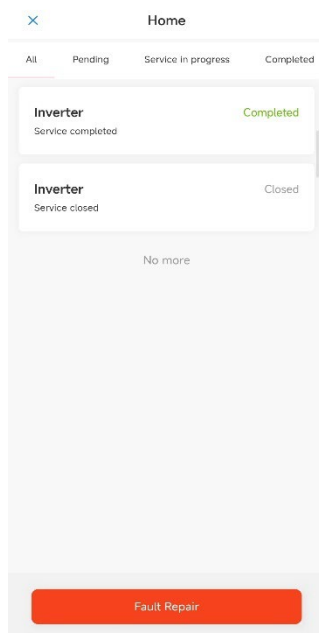
Good:  $SOH \geq 80\%$  ; Normal:  $60\% \leq SOH < 80\%$  ; Loss:  $SOH < 60\%$  .





### 6.3.7 After-sales Service

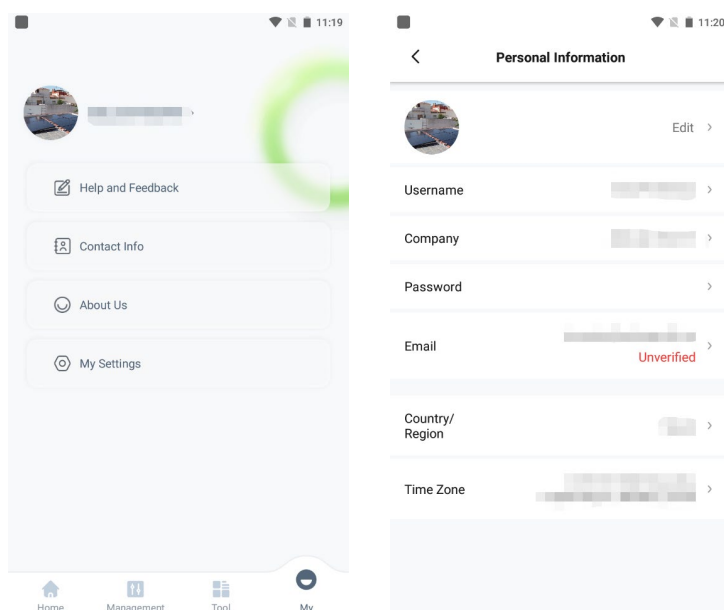
On the Toolbox page > Click "After-sales Service" to inquire about after-sales service related information. For detailed instructions, please refer to the eSAJ Service User Manual.



## 6.4 My Management

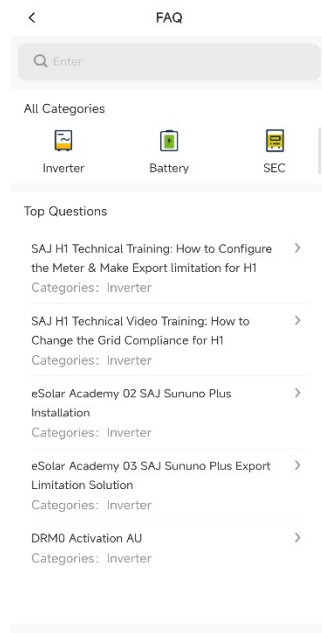
### 6.4.1 Personal Information

On the My Admin page > Click on "Personal Information" > Click your profile picture to edit your profile picture, username, nickname, password, bound email, country/region, time zone and other information. ( Note: The username can only be changed once a year.)



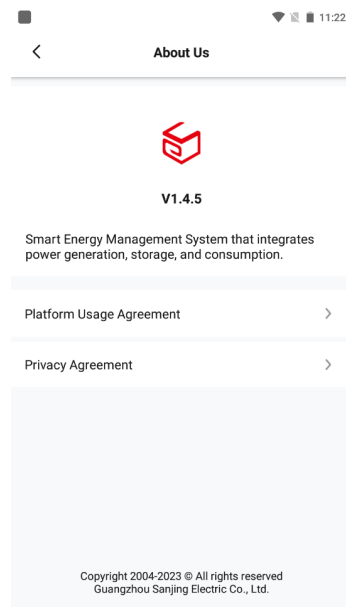
### 6.4.2 Common Problem

On the "My Management" page > click "FAQs" to inquire about common problems and solutions.



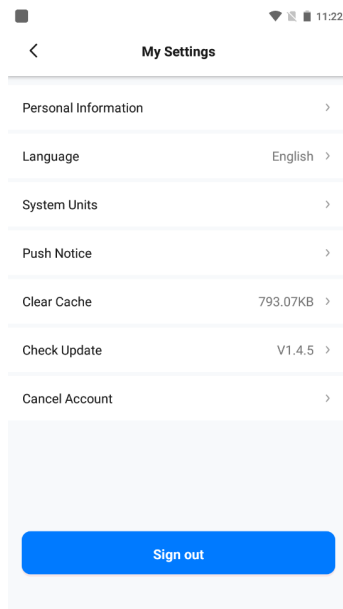
### 6.4.3 About Us

On the "My Management" page > click "About Us", you can query the system version, platform usage agreement, privacy agreement and other information.



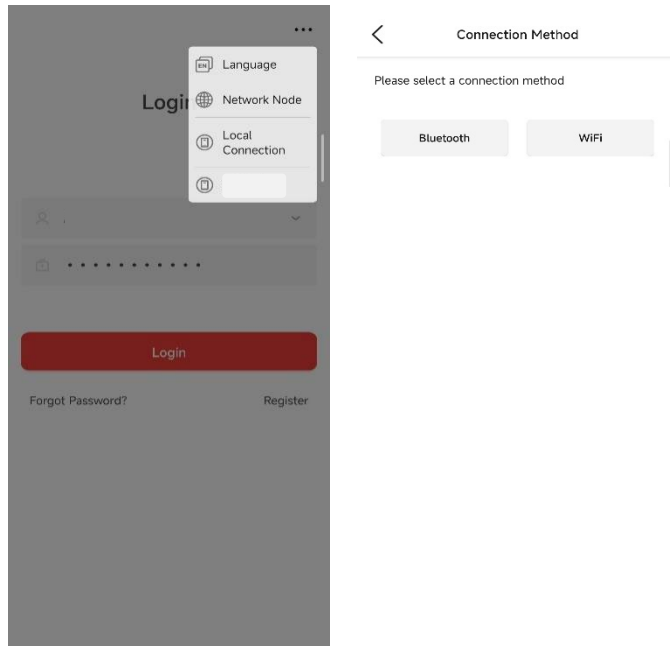
### 6.4.4 My Settings

On the "My Management" page > click "My Settings", you can set personal preferences, including: language, system units, message push, and operations such as clearing the cache, checking for updates, and canceling the account.



## 7 Local Commissioning

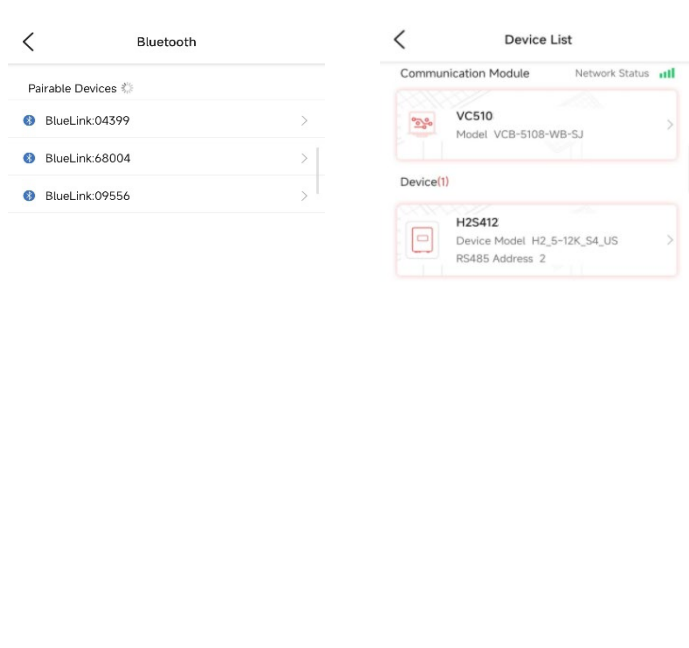
in the login page> Click on the top right"··· " > Select "local connection" and enter the password 1 23456 to perform local commissioning when there is no network. It supports Bluetooth commissioning and hotspot commissioning.



## 7.1 Bluetooth Commissioning

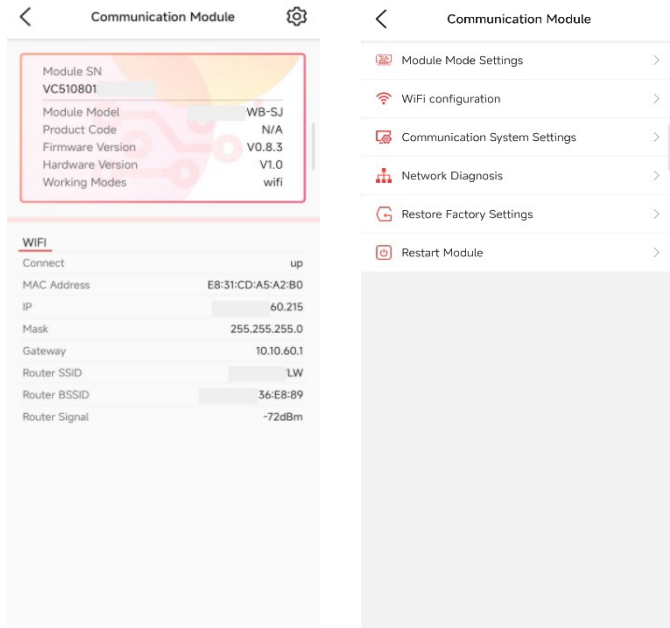
Note: Please turn on the Bluetooth of the inverter device and mobile phone, and ensure that the communication module is connected normally.

Pairable Devices via Bluetooth > Select the corresponding module and make related settings.

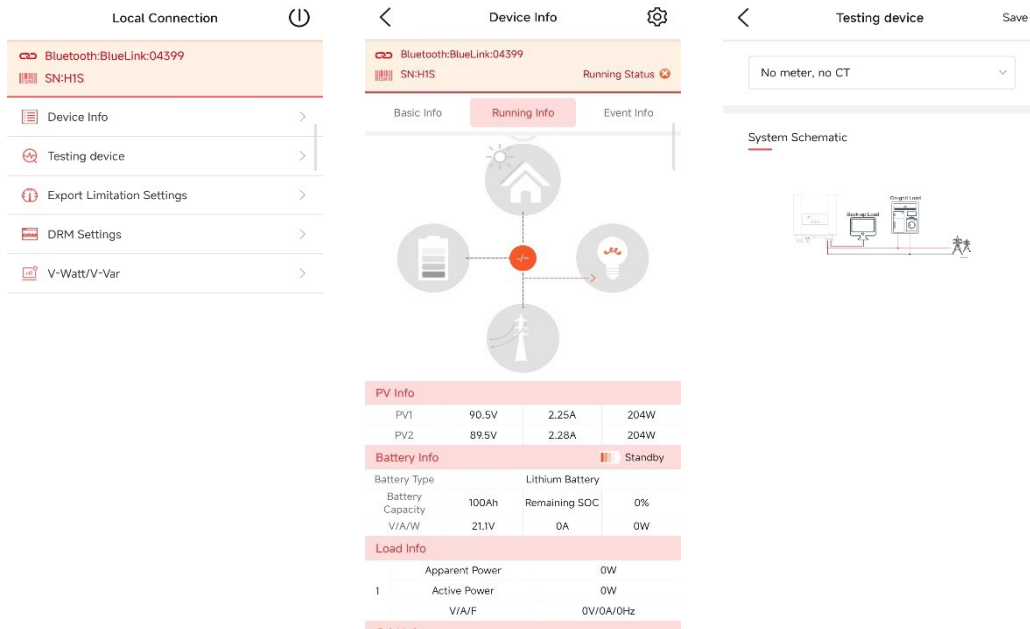


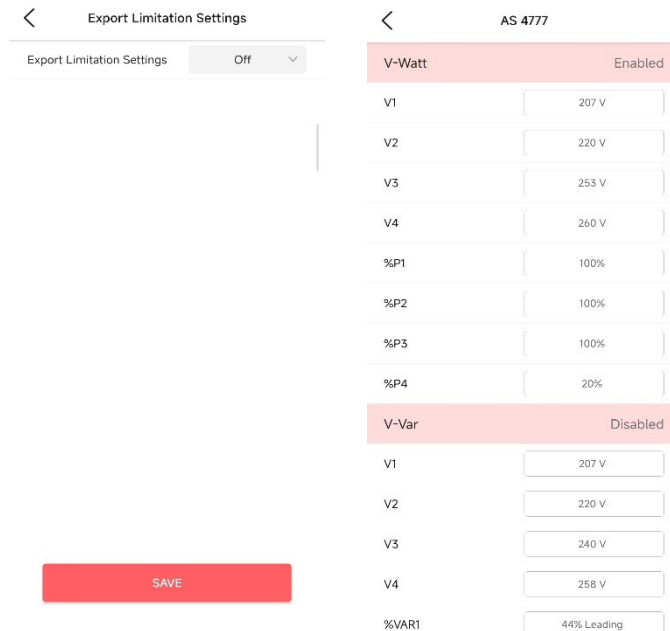
Communication module settings: (module mode settings, WiFi configuration,

communication system high configuration, network diagnosis, etc.)



Inverter equipment settings: (equipment information, testing equipment, anti-backflow settings, parallel settings, debugging entrance)

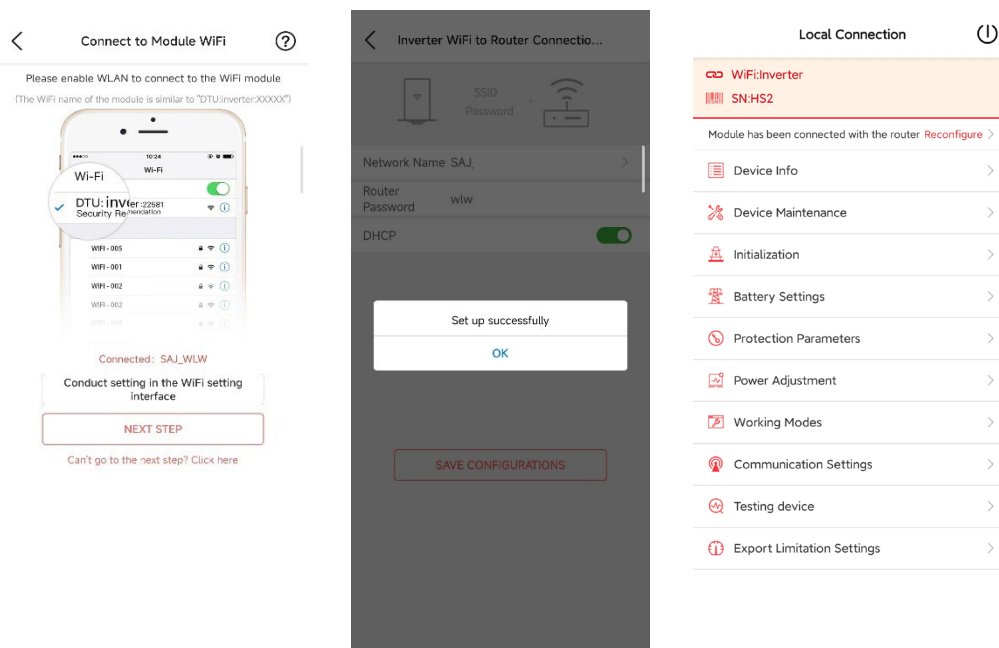




## 7.2 Hotspot Debugging

( Note: Please turn on the inverter equipment and mobile phone WiFi , and ensure that the communication module is connected normally.)

module Wi Fi name usually starts with "DTU: i nverter: XXXXX ". After setting and connecting successfully, you can configure device information, battery settings, communication settings, etc.



## 8 Reference Information

### 8.1 Weather Parameters

parameter	unit	Paraphrase
Temperature	°C / °F	The ambient temperature value of the geographic location of the power station.
Sunrise time	Minutes and seconds	Refers to the time when the center of the sun rises from the eastern horizon.
Sunset time	Minutes and seconds	Refers to the time when the center of the sun falls from the western horizon.
Weather data	-	The specific state of the atmosphere in a short period of time, such as: sunny, cloudy, overcast, showers, thunderstorms, light rain, moderate rain, heavy rain, heavy rain, snow showers, haze , etc.



## 8.2 Environmental Benefit Parameters

parameter	unit	Paraphrase	Calculation formula
Tree planting	tree	The photovoltaic power generation under the power station is equivalent to the CO <sub>2</sub> emissions absorbed by the planting of new trees .	1.773*cumulative power generation/1000
CO <sub>2</sub> emission reduction	t	The photovoltaic power generation under the power station is equivalent to the CO <sub>2</sub> emissions produced by fossil fuels.	Carbon dioxide factor*cumulative power generation/1000

## 8.3 Power parameters

parameter	unit	Paraphrase
Power station capacity	k Wp	The total capacity of the PV array actually installed in the power station.
PV power generation	k W	The total power generated by the photovoltaic array.
PV power generation	k Wh	The total power generated by the photovoltaic array in the statistical period.
Inverter power generation	k Wh	The output of photovoltaic power plants.

Cumulative power generation	k Wh	The total output power of the power generation terminal of the power station during the statistical period .
Energy used	k Wh	The total power consumption of the load in the statistical period .
Internet access	k Wh	fed into the grid by the power station during the statistical period .
Buy electricity	k Wh	Purchase electricity from the grid during the statistical period.
Self-generated electricity	k Wh	Photovoltaics generate electricity for local use that is not fed into the grid. It consists of power consumption (consumption at the load end) and storage power (battery charging). Note: The charging and discharging of the battery may cause errors.
Self-sufficient power	k Wh	load side consumes electricity from the photovoltaic system. It consists of power consumption (consumption at the load end) and storage power (battery discharge). Note: The charging and discharging of the battery may cause errors.
Self-sufficiency rate	%	generated by photovoltaics for local use and not fed into the grid to the electricity purchased from the

		grid.
Electric power	k W	Power consumption at the load end.
Energy storage charge and discharge power	k W	Energy storage charge and discharge power.
PV revenue	-	Photovoltaic power generation income. It consists of Internet access revenue and electricity cost savings, and electricity prices need to be set.

## 8.4 Battery parameters

parameter	unit	Paraphrase
Battery power	W h	Battery input or output power per unit time.
Design capacity	k Wh	The amount of power a battery discharges under certain conditions (discharge rate, temperature, termination voltage, etc.).
Battery SOC	%	That is, the state of charge is used to reflect the remaining capacity of the battery.
Battery voltage	V	Refers to the potential difference between the positive and negative materials of the battery due to chemical reactions.
Battery	A	The current supplied by the battery during normal

current		operation.
Battery temperature	°C	battery surface temperature.
Cycles	Second-rate	When the battery completes a complete charge and discharge process, the number of cycles is +1.
Battery health rate	%	Battery health life.