

RoyPow Monitoring Platform APP User Manual

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RoyPow Monitoring Platform APP User Manual

I. Overview

The App can monitor the operation status of home energy storage in real time, understand the detailed operation data of the equipment, and can also remotely control and adjust, including the control and adjustment of inverters, batteries and other equipment, which can help users manage and operate the home energy storage power generation system efficiently and conveniently.

Note:For the purposes of this document, "Device" and "Machine" refer to inverters.

(I) State: Get a comprehensive view of your device's operational status and detailed data.

1. The app offers an overview of your device, providing real-time insights into its performance, energy production, consumption, energy flow diagrams, as well as real-time and statistical data.

(II) Info: List of bound devices,monitor your device's real-time operation and perform various device-related actions, including editing, deletion, and upgrades.

1、 In the app, users can modify station information and device details.

2、 Users can also access real-time, in-depth parameter information and historical logs for their devices.

3、 Users can monitor device operation in real-time, adjust parameters, and change device names.

4、 Users can monitor device operational status, manage devices, check alarms, and perform mobile operations.

(III) More: You can configure personal information, device network settings, message preferences, and access additional usage assistance.

(IV) Users can download and install it on both the (IOS) App Store and (Android) Google Play by searching for RoyPow.

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**iOS download****Android download**

Note: To ensure this app's functionality and security, we may need to request certain permissions from your device's operating system while it's in use. These permissions are solely for the app to work correctly, and rest assured, we do not gather or share your personal information with external parties.

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II. User Registration and Log In

2.1 User Registration

Users can register by email on both APP and Web (<https://cloud.roypowtech.com/#/dashboard/screen>) platforms. Enter the information prompted when registering, and click the register button to register your account.

Email Registration: Click the **desktop icon** -> Click "**Register**" on the login page (as shown in Fig. 2.1.1)-> **Country** -> **Enter your email** -> **Enter the verification code** -> **Set your password** -> **Confirm your password** -> **Review the terms of service and check the box** -> Click "**Register**", as shown in Fig. 2.1.2.

Note: When selecting a country node, select the node in the current country or a node in a nearby country to avoid registration failures.

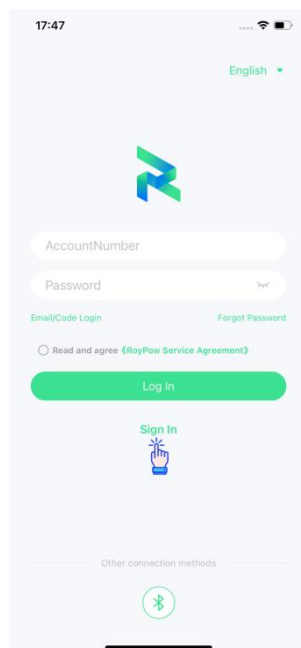


Fig. 2.1.1 Log In

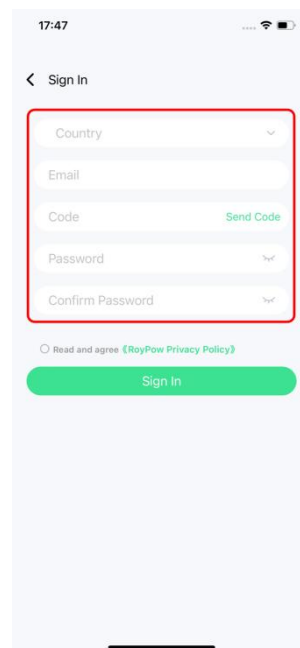


Fig. 2.1.2 User Registration

2.2 Log In

After registration, you can log In. If you don't have an account, please sign up before logging in.

Password Log In: Click the **desktop icon** -> **Enter your username** (which is your email) -> **Enter your password** -> **Log In**, as shown in Fig. 2.2.1.

Login with authentication code: Click the **desktop icon** -> **Email/Verification Code Login** (Fig. 2.2.2) -> Email address (Fig. 2.2.3, Email) -> **Send verification code** -> **Enter the verification code** -> **Log In**.

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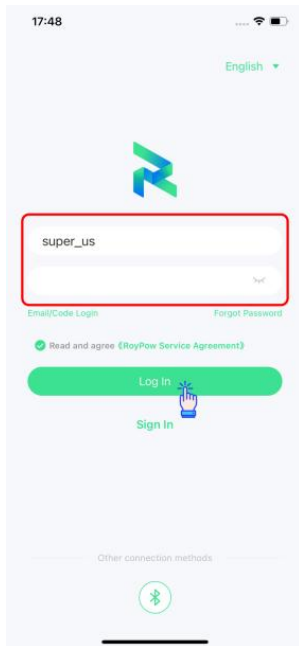


Fig. 2.2.1 Account Log In

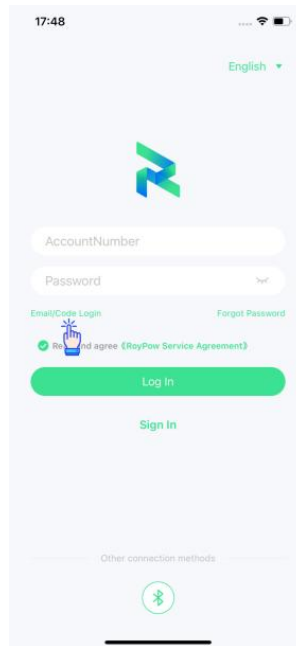


Fig. 2.2.2 Authentication code

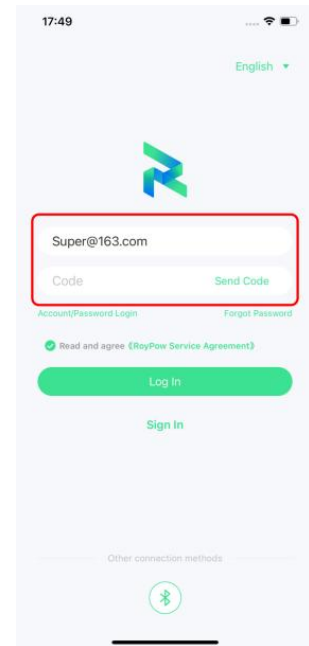


Fig. 2.2.3 Authentication code

2.3 Adding a Power Station

After you've successfully registered and logged in for the first time, you'll automatically be redirected to the page where you can add a new power station. Here, you'll need to enter the necessary information for your power station (see Fig. 2.3.1: Add Power Station). Once you've completed the power station setup, you will be guided to the section for adding inverters (see Fig. 2.3.2: Add Inverter). Simply follow the prompts to enter the required inverter details and click "Add". To enable online monitoring of the newly added inverter, you will need to configure its network settings on both the APP and web platforms. If you create a power station but forget to add an inverter before closing the application, the APP will remind you to add an inverter when you log in next time.

Note: Keep in mind that to access monitoring data, your user account must have **At least one power station and one inverter with successful network distribution**. On the APP platform, you have the option to scan the machine's QR code. This feature automatically fetches machine information from the server and fills in the details for you. You can then make any necessary adjustments.

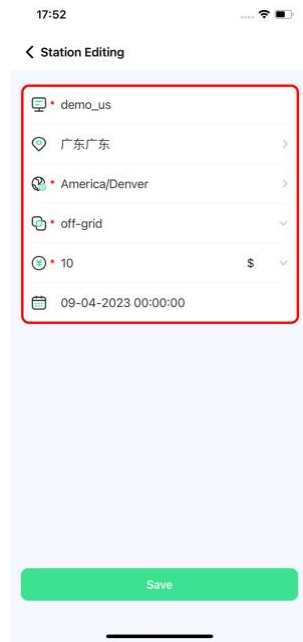


Figure 2.3.1: Add Power Station

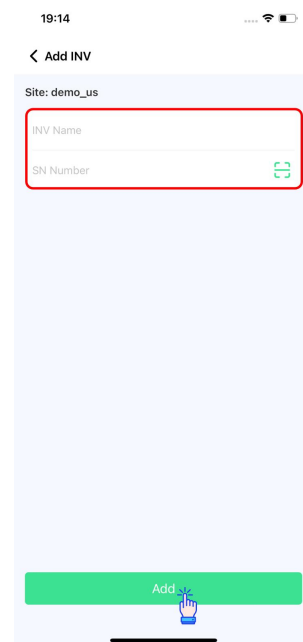


Figure 2.3.2: Add Inverter

2.4 WIFI Configuration

To set up the Collect sticks WIFI, first connect to the Collect sticks Bluetooth, then enter the WIFI network name and password for internet access. After completing the device addition for the first time in the previous Section 2.3, the WIFI configuration interface will automatically appear. (Users can also access this interface by navigating to "More" -> "Settings" -> "WIFI Configuration".) The interface is shown in Fig. 2.5.1.

Area 1: Scan and connect to the Collect sticks Bluetooth.

Area 2: Scan for nearby WIFI network names.

Area 3: Selecting this option will save the entered WIFI password as the default.

For example: (If the inverter's Bluetooth name is "RoyPow308398688D92", and the WIFI network name is "RoyPow-SZ-2.4" with the password "roy950049").

WIFI Configuration Steps:

1. Enter the serial number of the collector or click the scan icon in area 1 in Figure 2.5.1 to scan the serial number of the collector.

Note: For details, please refer to the "Stick Logger Quick Guide".

2. You can also click the icon in Area 2 as shown in Fig. 2.5.1, which will automatically scan for nearby WIFI networks (as shown in Fig. 2.5.2)

Note: The iOS platform requires the iPhone to be connected to a Wi-Fi network first.

3. Enter the WIFI password (in Area 3 of Fig. 2.5.1)

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If you didn't perform network configuration immediately after adding the inverter for the first time, both the APP and web platforms on your mobile device will be unable to retrieve any data related to the inverter. In such cases, you'll need to configure the network settings for the collect sticks once more. You can repeat these steps or make modifications under "More" -> "Settings" -> "WIFI Configuration".

Note: WIFI configuration for the device can only be performed through the mobile app. Additionally, the device needs to be network-configured to access device-related data, monitor, and view device information.

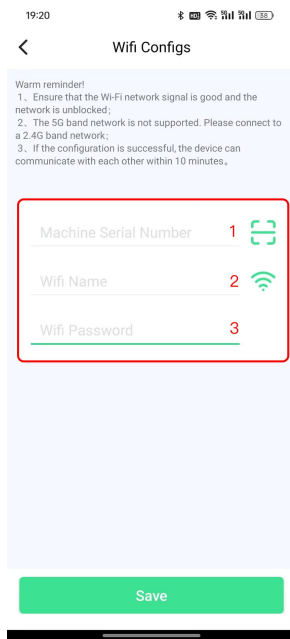


Fig. 2.5.1 WIFI Configuration

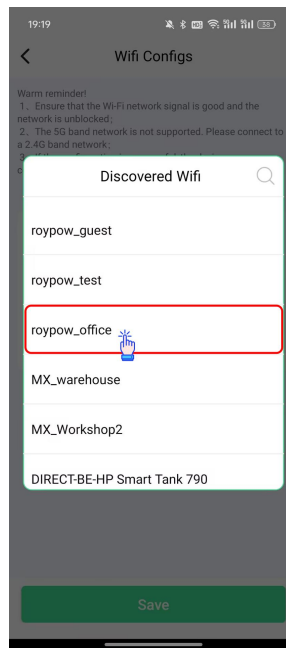


Fig. 2.5.2 Bluetooth Search and Connection

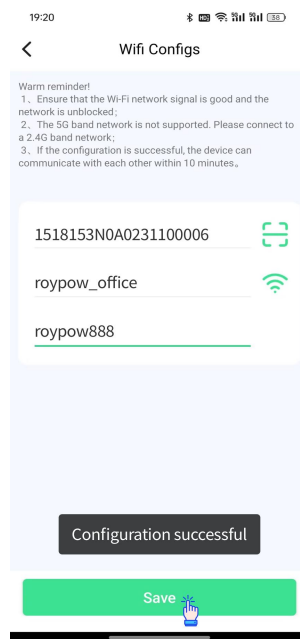


Fig. 2.5.3 WIFI Configuration Successful

2.5 Forgot Password

If you forget your password, simply click on Forgot Password on the login page. You'll receive a verification code in your registered email.is shown in Fig. 2.6.1

Use this code to reset your password. Once you've successfully reset it, you can log in with your new password. The interface is shown in Fig. 2.6.2

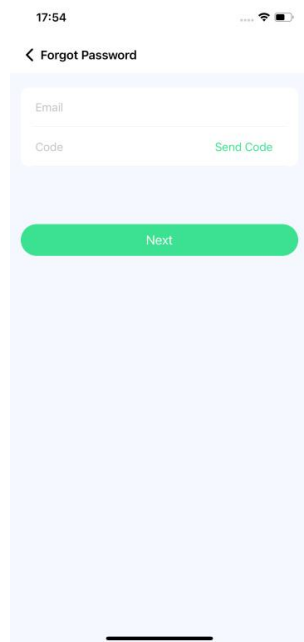


Fig.2.6.1 Get a verification code

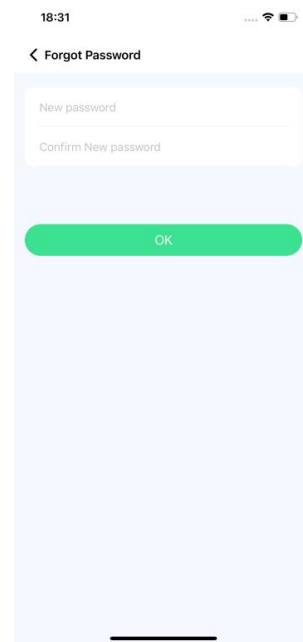


Fig. 2.6.2 Enter a new password

2.6 Language Selection

"Choose your preferred language" on the login page or change the language settings it in the "**More**" after logging in, as shown in Fig. 2.7.1 and Fig. 2.7.2.

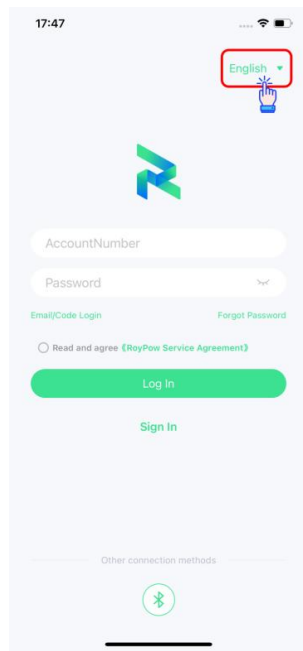


Fig. 2.7.1 Language Selection

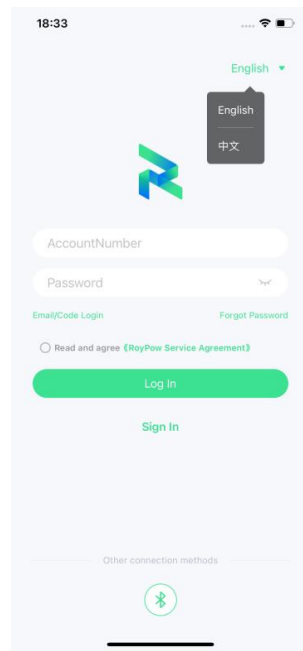


Fig. 2.7.2 Language Selection

III. State

After a successful login, you'll be taken directly to the "State" page. If you have multiple inverters, it will show detailed information for one of the online inverters by default. as shown in Fig. 3.1.

Detailed Information Includes:

1. Adding devices (in Area 1 of Fig. 3.1).
2. Operating modes (in Area 2 of Fig. 3.1).
3. Device selection (in Area 3 of Fig. 3.1).
4. Real-time energy status: This shows the energy status including PV, battery, grid, load, inverter, along with the device's online status (in Area 4 of Fig. 3.1).
5. Device data: Real-time data, statistical data, and device information (in Area 5 of Fig. 3.1). For details on each area, please refer to the following subsection.

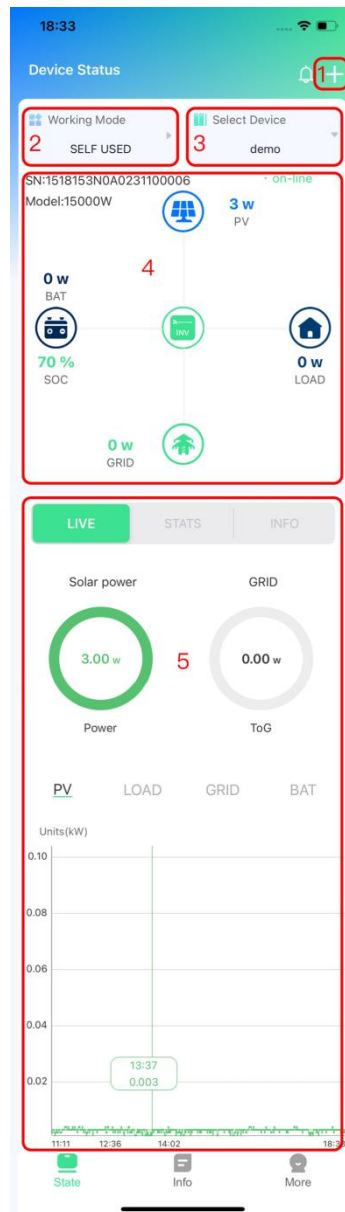


Fig. 3.1 Device Status

3.1 Add Device

On the "State" page, click the "+" icon in the upper right corner, and follow the prompts to enter the information of the inverter you want to add. Click "Add" to add the new inverter. As shown in Fig. 3.1.1.

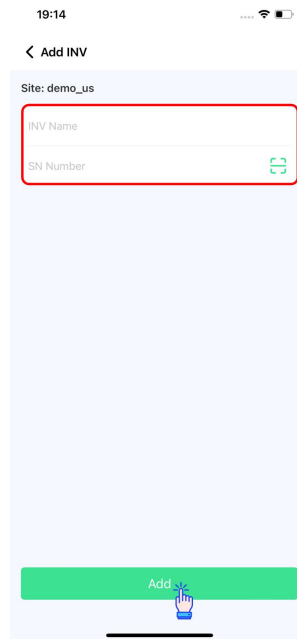


Fig. 3.1.1 Add Inverter

3.2 Operating Modes

Users can choose different working modes of the machine according to their own needs. In the "State" page, click "**Working Mode**" (in Area 2 of Fig. 3.1), then the page jumps to a new interface where you can select the mode, you can choose one of the four working modes of "SELF USED", "PEAK SHIFT", "BACK-UP", "FEED-IN PRIORITY", and click "**Save**". A pop-up will confirm the successful save, as shown in Fig. 3.2 and Fig. 3.3.

SELF USED: The power generated by the PV end is only supplied to the battery for charging and load consumption, and the battery charging power is only obtained from the PV side, and the inverter will not transmit the excess power to the grid or take power from the grid.

BACK-UP: The power required by the user's load will be obtained from the battery first, and the battery will only be taken from the grid to supply the load side when the battery is exhausted.

PEAK SHIFT: Typically, the price of electricity on the grid will be priced according to the frequency and peak period of the local electricity used. Grid electricity prices are higher during peak periods and lower during trough periods. At this time, the user can choose the peak shaving and valley filling mode, customize the charging/discharging time period of the battery, charge the battery at the PV end during the trough period of electricity consumption, and use the low-cost power of the grid to supply load consumption; Stop taking power from the grid during the peak period of electricity consumption, and discharge the battery to supply the load for use, so as to meet the user's demand for electricity throughout the day, make reasonable use of the battery's power, and avoid the use of high-priced grid electricity during the peak period of electricity consumption.

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FEED-IN PRIORITY: It is a combination of energy storage priority and grid priority. The valley shaving time period can be set, and the machine runs in the grid priority mode during the peak price time of the power grid. During the valley price period of the grid, the machine runs in the energy storage priority mode and gives priority to energy storage.

Application scenario: During the peak-to-valley period of the power grid, the energy storage priority and grid priority modes are automatically switched to earn the peak-to-valley price difference of the power grid.

Note: Customizing the battery's charging and discharging times in the "Peak Shaving" mode is shown in Fig. 3.4.



Fig. 3.2 Work Mode 1

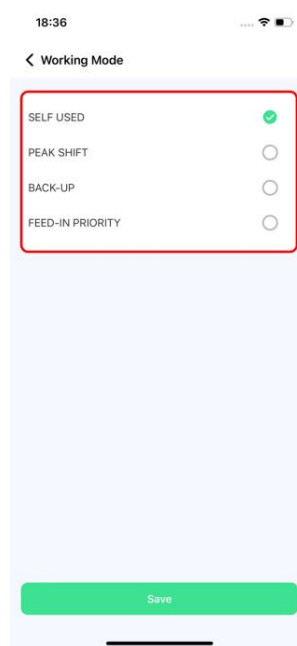


Fig. 3.3 Work Mode

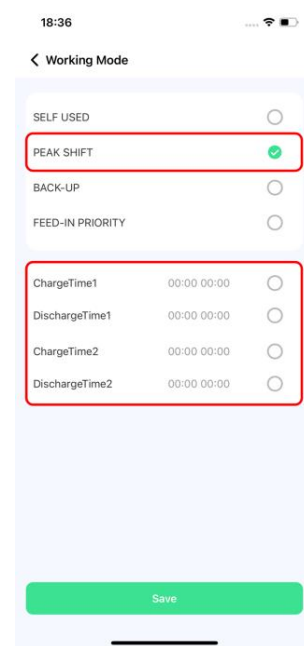


Fig. 3.4 Work Mode

3.3 Device Selection

If you have not yet added inverters to their power station, you need to add inverters before you can view device information. If you have added only one inverter, you can only view that inverter's information and cannot select a different device. However, if you have added multiple inverters, you can choose one device for viewing data or modifying settings. For example: **demo**

In the "State" page, click on "Device Selection" (in Area 1 of Fig. 3.1). A dropdown list will appear, and you can click on the **demo** to view its data or modify its settings, as shown in Fig. 3.5.



Fig. 3.5 Device Selection

3.4 Real-time Energy Status

On the "State" page, you can see the visual representation of device online status and real-time energy status (in Area 4 of Fig. 3.1). Online device status is shown in Fig. 3.6, where there are four directional lines representing energy dynamics.

- 1.PV to Inverter: PV supplies power to the inverter, and energy flows in one direction.
- 2.Battery to Inverter: The battery is discharging; if the flow is reversed, it indicates the battery is charging.
- 3.Inverter to Load: The inverter supplies power to the load, and energy flows in one direction.
- 4.Inverter to Grid: The inverter is selling electricity; if the flow is reversed, it indicates the inverter is buying electricity.

Offline device status is shown in Fig. 3.7. When a device is offline, the inverter should be turned off. If the inverter is still operating when the device is offline, you should check if network configuration has been completed after adding the device or if the previously configured WIFI have internet access. If network configuration has not been completed or if the network is not working, the device needs to be configured for the network again (refer to Section 2.5 WIFI Configuration for specific steps on inverter network configuration). When the device is offline, you will not be able to access device real-time and statistical data.

PV value: Indicates the total output power from the PV (Photovoltaic) system of the current device.

Battery value: Represents the total discharged power from the battery.

Grid value: Shows the total power supplied by the current device to the grid.

Load value: Displays the total power delivered by the inverter to the load.



Fig.3.6 Device online

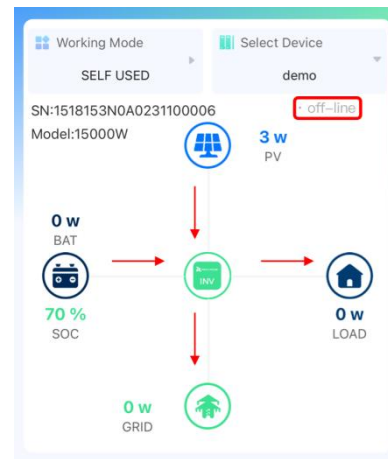


Fig.3.7 Device offline

3.5 Device Data

In the "State" interface, you can find detailed device data (in Area 5 of Fig. 3.1) The device data section includes: **LIVE** Data, **STATS** Data and Device **INFO** For a detailed explanation of the data, please refer to the following sections.

In both the "LIVE" and "STATS" interfaces, you'll see two circular energy ratio charts for PV power and grid electricity generation.

The first chart displays real-time PV electricity generation.

The second energy ratio chart represents the total ratio of electricity sold to the grid and electricity purchased from the grid by the current inverter. If the current inverter sells more electricity to the grid than it buys, the value in this chart will be positive. Conversely, if the inverter buys more electricity than it sells, the value will be negative.

3.5.1 Real-time device data

In the "State" page, click "LIVE" (in Area 5 of Fig. 3.1) to view real-time dynamic data for the current device. You can view the following parameters in real-time data:

- 1."PV": Power generated by the PV side.
- 2."Load": Power consumed by the load side.
- 3."Grid": Power fed into the grid by the inverter.
- 4."Battery": Current battery charge value.

You can click on any of these parameters to view a graph showing the electricity consumption or generation for that parameter during the selected time period. You can slide and zoom on the graph for a closer look. This functionality is also available in the "STATS" data. The real-time data interface is shown in Fig. 3.8.

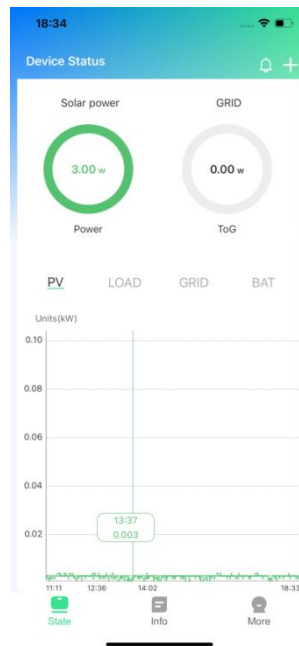


Fig. 3.8 Real-time Data

3.5.2 Device statistical data

To view statistical data, click on "STATS" in the "State" page. You can select the time units for statistical data: year, month, or day. To view data for a specific time period, choose the year, month, and date options accordingly. For example, to view statistical data for May 2024, select "Month" in the year-month-day options (as shown in Fig. 3.9), then choose "2024-05" in the specific time options (as shown in Fig. 3.10). After making these selections, you can view the statistical data for that time period, as shown in Fig. 3.11.

Year: Displays statistics for each month within the selected year January to December.

Month: Displays statistics for each day within the selected month.

Day: Displays the total statistics for the selected specific date.

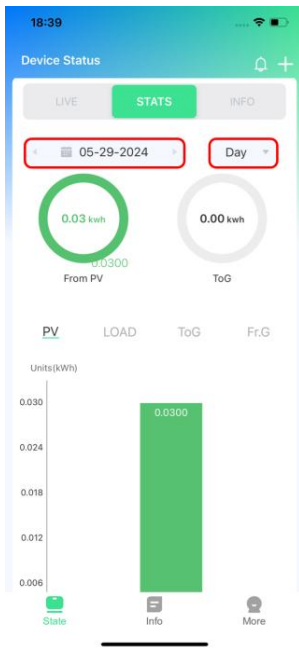


Fig. 3.9 Selecting Month

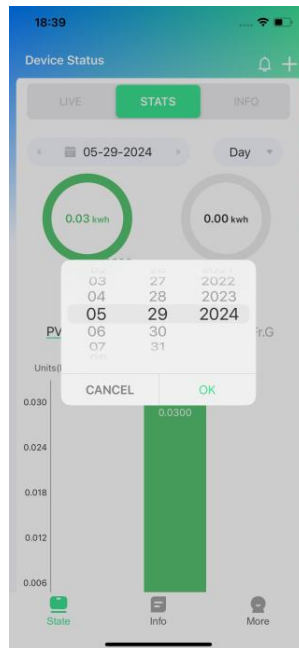


Fig. 3.10 Select date

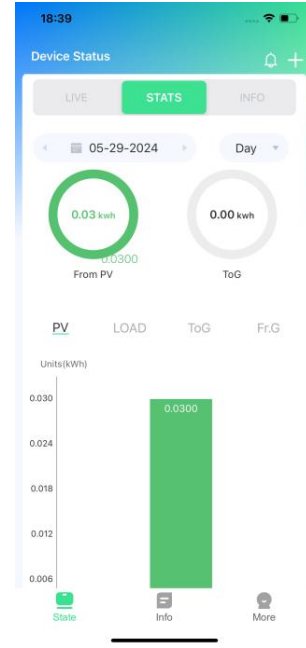


Fig. 3.11 October, 2022 Statistical Data

3.5.3 Device Overview

In the "State" page, you can click on "INFO" to view information about the current device.

The device overview includes the following information: Name, location, time zone, time added, grid connection type, installation cost, and investment date, as shown in Fig. 3.14.

Name: The name of the power station.

Location: The latitude and longitude coordinates of the power station's location.

Time Zone: The time zone of the power station.

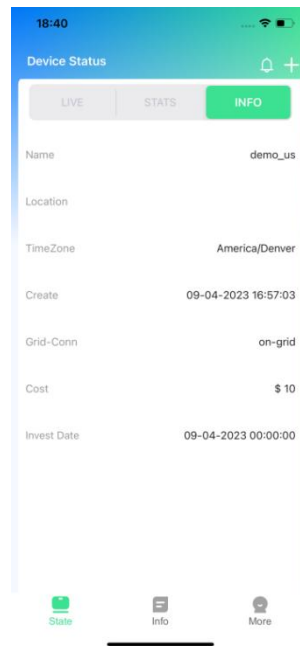
Create: The date and time when the power station was initially added.

Grid-Conn: Grid Connection Type:

Cost: Installation cost

Invest Date: Date of production

Note: The values above are for reference only: 2.3 Values entered by the user when adding the power station.



3.14 Device Overview

IV. Info

After a successful login, when you're on the application's main interface, simply click on **"Info"**. This will take you to the device information page, as shown in Figure4.1. On this page, you'll find a list of all the devices added to your current site. You can check the online status of devices, their serial numbers, current power output, daily energy generation, total energy generation, device details, and even report device issues.

Among these, Current Power: This indicates the total power output of the current device. Daily Energy Generation: This shows the total energy generated by the device on the current day. Total Energy Generation: This represents the overall energy generated by the current device. You can also access detailed device information and even report any issues.

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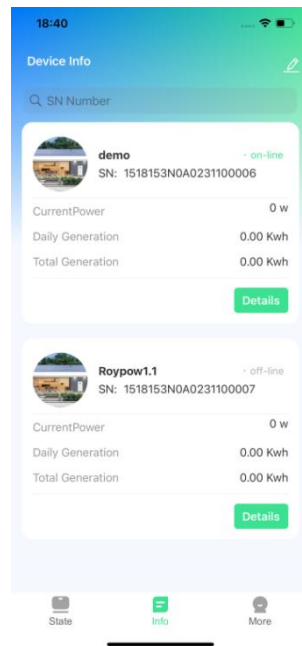


Fig. 4.1 Device Information Page

4.1 Searching for a Device

In the "Info" page, click on the search input box above "Site" (as illustrated in Fig. 4.2). Then, simply enter the serial number of the device you wish to search for within your current station.

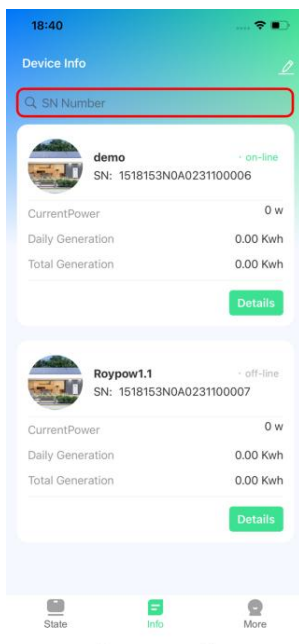


Fig. 4.2 Search device

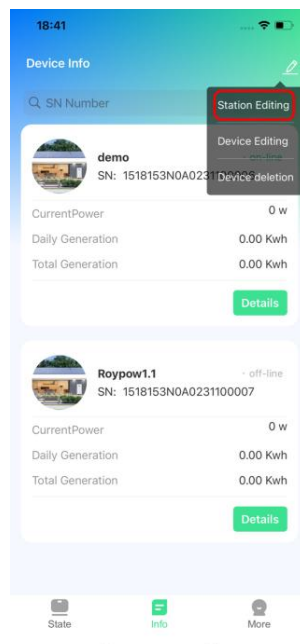


Fig. 4.3 Station Editing

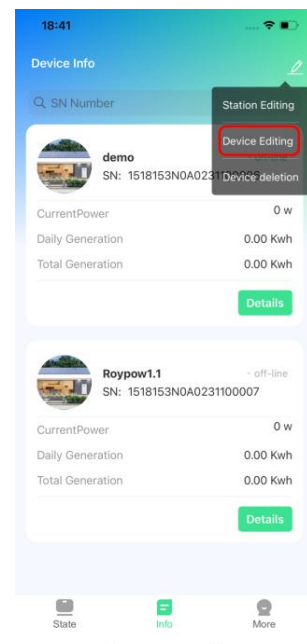


Fig. 4.4 Device Editing

4.2 Station Editing

In the "Info" page, click on the "✎" symbol in the upper right corner, and from the dropdown menu, select "Station Editing". You'll see the interface displayed, as shown in Fig. 4.3.

4.3 Device Editing

In the "Info" page, click on the "✎" symbol in the upper right corner, and from the dropdown menu, choose "Device Editing" as shown in Fig. 4.4.

4.4 Device deletion

On the "Info" page, click the symbol in the upper right corner "✎", and choose "Device deletion" from the dropdown menu. Under each device, you will find a delete option. Click "Delete" for the device you wish to remove. A confirmation prompt will appear, and by selecting "Confirm," you can proceed with the deletion. If you accidentally clicked the delete button, you can choose "Cancel" in the prompt to cancel the deletion. as shown in Fig. 4.5~4.7.

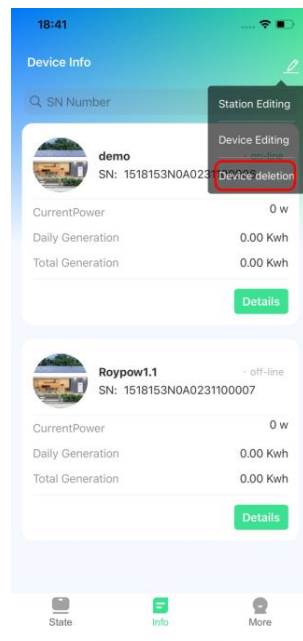


Fig. 4.5 Delete Device 1

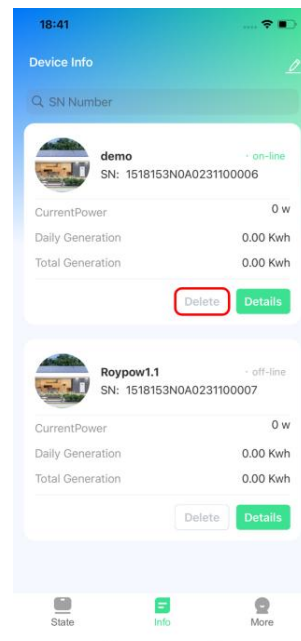


Fig. 4.6 Click Delete

4.5 Details

In the "Info" page, click on the device you want to view and choose "Details" to access the device's detailed

information. The interface is shown in Fig. 4.7~4.9. The device details page provides comprehensive information in three sections: "**Parameters**", "**DevOps**", and "**Log**".

In the "**Parameters**" section, you can view the following details for the current inverter: Inverter SN code, machine type, inverter status, latest data refresh time, PV-related parameters, battery-related parameters, grid-related parameters, inverter-related parameters and load-related parameters.

In the "**DevOps**" section, you can view the following settings for the inverter: Maintenance, Function Settings, Other Settings

In the "**Log**" page, you can view all the logs of the current inverter. For specific details, please refer to the following subsections.

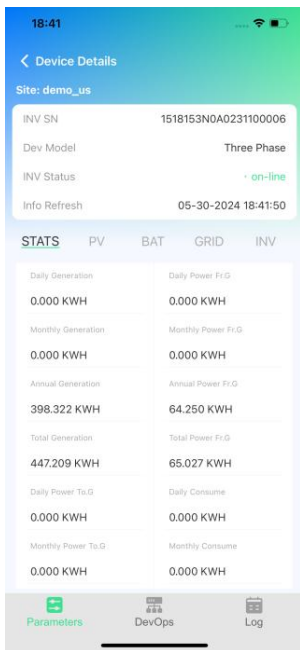


Fig. 4.7 Details

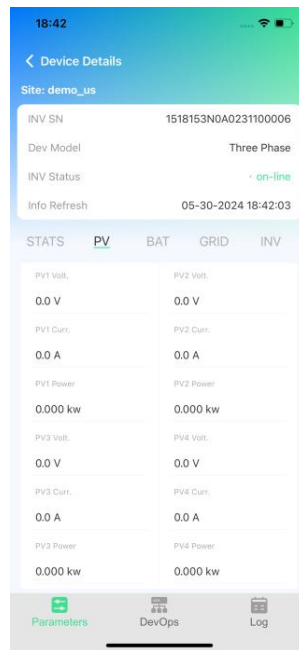


Fig. 4.8 PV Parameters

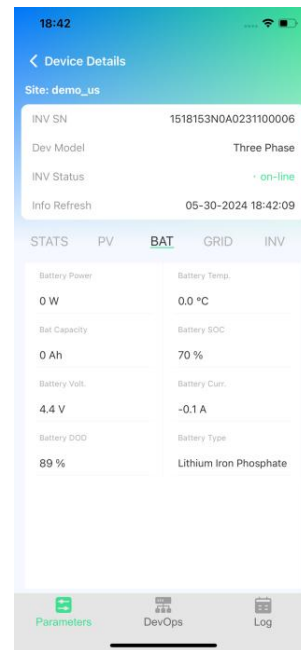


Fig. 4.9 Battery Parameters

4.5.1 Device Parameters

In the "**Details**" page, click on "**Parameters**" to access various parameters related to the current inverter. These parameters include the inverter's SN, device model, inverter status, the latest data refresh time, PV-related parameters, battery-related parameters, grid-related parameters, inverter-related parameters, and load-related parameters.

4.5.1.1 Statistical Parameters

In the "**Parameters**" section, click "**STATS**" to view parameters related to daily, monthly, and annual total electricity generation, consumption, selling, and purchasing, among others. The interface is shown in Fig. 4.7.

4.5.1.2 PV Parameters

In the "**Parameters**" section, click "**PV**" to access to parameters such as PV input voltage, PV input current, PV input power, and more for PV1 and PV2, as well as overall PV input parameters like total power and total current. Additionally, you can view parameters related to insulation impedance and generated energy. The interface is shown in Fig. 4.8.

4.5.1.3 Battery parameters

Click "**BAT**" in the "**Parameters**" section to access information about the device's battery, including battery type, voltage, current, power, capacity, temperature, SOC, DOD. The interface is shown in Fig. 4.9.

4.5.1.4 Grid Parameters

Within the "**Parameters**" section, click "**GRID**" to access to information on grid voltage, grid current, grid frequency. The interface is shown in Fig. 4.10.

4.5.1.5 Inverter Parameters

Click "**INV**" in the "**Parameters**" section to access parameters related to inverter's working mode, PV Input Mode, Grid Standard, MCU1 Version, MCU2 Version, DCAC Temp., DCDC Temp., INSide Temp., PMU Version BMS Version, and more. The interface is shown in Fig. 4.11.

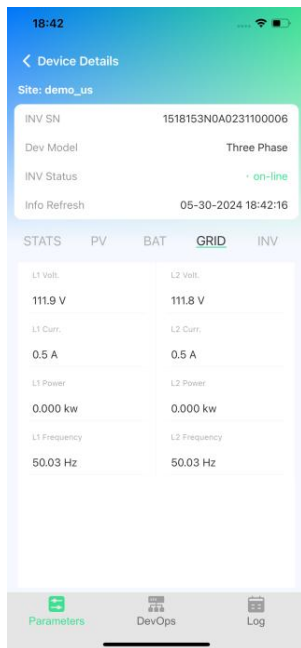


Fig. 4.10 Grid Parameters

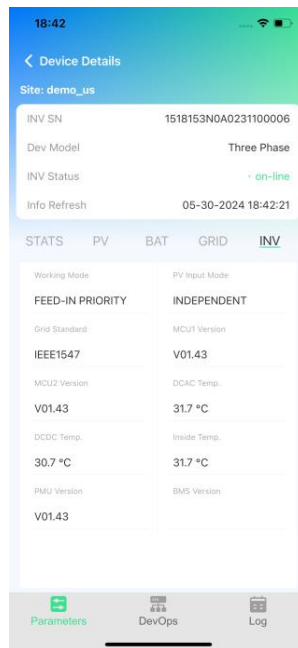


Fig. 4.11 Inverter Parameters

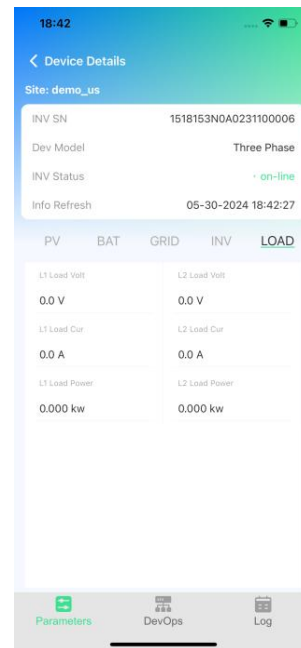


Fig. 4.12 Load Parameters

4.5.1.6 Load Parameters

In the "Parameters" section, click "LOAD" to view parameters such as load voltage, load current, load power. The interface is shown in Fig. 4.12.

4.5.2 DevOps

4.5.2.1 Device Maintenance

On the "Details" interface of the device, is shown in Fig. 4.13.

Click "DevOps" to jump to the maintenance settings page. This page can set settings such as power switch, battery wake enable, clear alarm record, clear electric statistics, restore default, PV input mode, data time, etc. The interface is shown in Figure 4.14.

Note: Remote operation does not involve software upgrades.

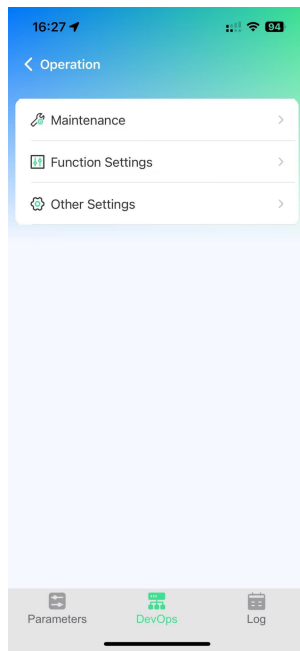


Fig.4.13 Device Maintenance

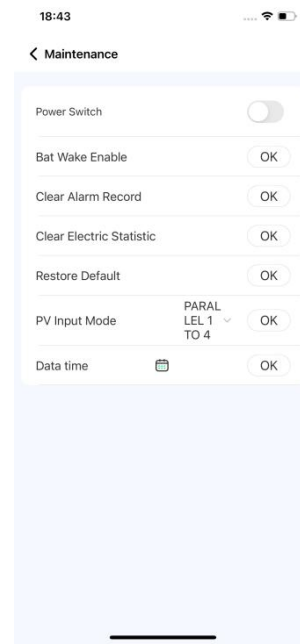


Fig.4.14 Maintenance

4.5.2.2 Function Setting

This page include settings: Anti Reflux Enable, Afcid Detection, Island Enable, Low voltage ride-through Enable(Lvrt Enable), High voltage ride-through Enable(Hvrt Enable), etc. The interface is shown in Figure 4.16.

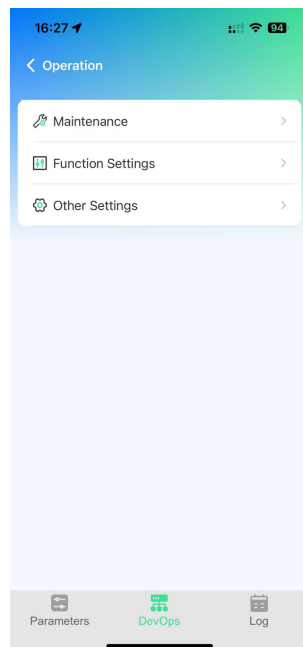


Fig.4.15 DevOps

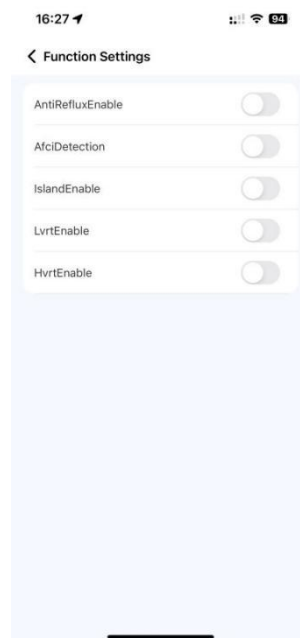


Fig.4.16 Function Settings

4.5.2.3 Other Setting

This page settings include: over voltage, over frequency, under voltage, under frequency, grid power factor, output power, battery DOD, etc. The interface is shown in Figure 4.18.

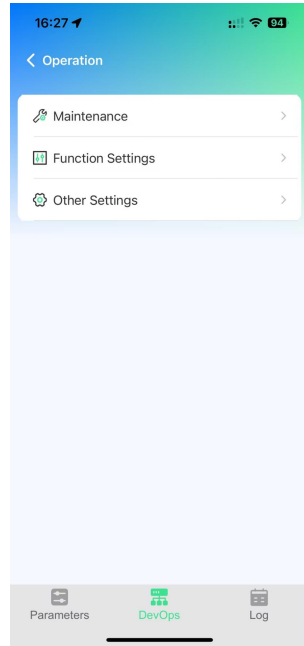


Fig.4.17 DevOps

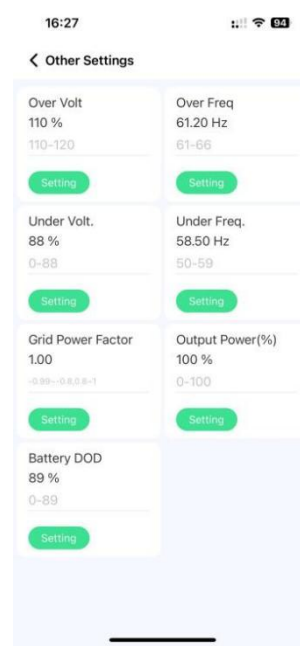


Fig.4.18 Other Settings

4.5.3 Device Logs

In the "**Details**" interface, click "**Log**" to view every log entry for the device, organized by date. Log content includes: the device's SN code, alarm level, alarm cause, and the specific time of the alarm. You can select a date to view the device's logs. as shown in Fig. 4.19.



Fig. 4.19 Device's Log

In the device **Log** screen, click one of the device log modules to jump to the alarm detail page. The interface is shown in Figure 4.20.



Fig. 4.20 Alarm summary

V. More

On the application's main page, click "**More**" to go to the More interface (as shown in Fig. 5.1). Here, you can modify settings for the app and devices, view information about RoyPow, and log out of your personal account.

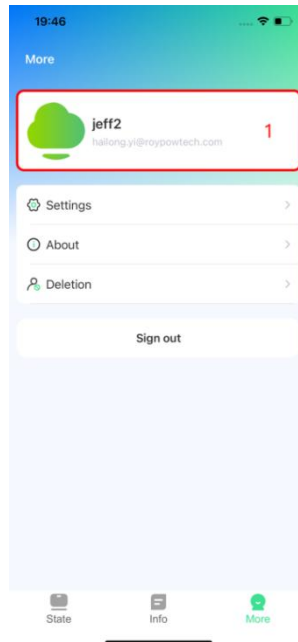


Fig. 5.1 Personal Center

5.1 User Changes

In the "**More**" page, click the personal information module, and in Figure 5.1 Area 1, jump to the user change interface (as shown in Figure 5.1.1), and you can modify the user avatar, user name, user gender, and user birthday date.

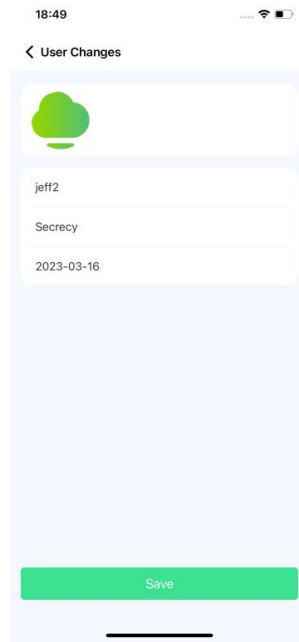


Fig. 5.1.1 User changes

5.2 Settings

In the "More" page, click "Settings", the page jumps to the settings interface, and the user can configure the device and select the language (as shown in Figure 5.2)

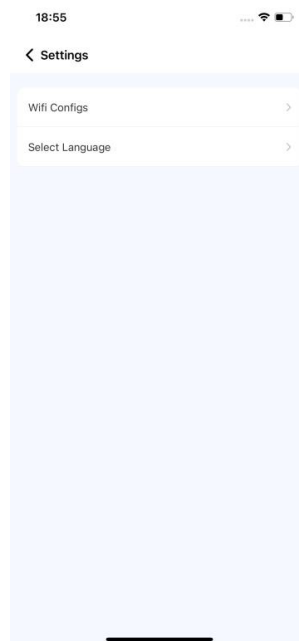


Fig. 5.2 Settings

5.2.1 WIFI Configuration

Click to enter the **WIFI configuration** interface (Figure 5.2.1.1). Enter or click the scan code icon to scan the serial number of the Collect sticks (Figure 5.2.1.2), enter the WIFI name or click the WIFI icon next to it, and the pop-up window of the WIFI list will pop up to select WIFI, (Figure 5.2.1.3), and enter the WIFI password. Click "Save" to configure the WIFI on the device, and the configuration success interface is shown in Figure 5.2.1.4.

Note: The iOS platform requires the iPhone to be connected to a Wi-Fi network first.

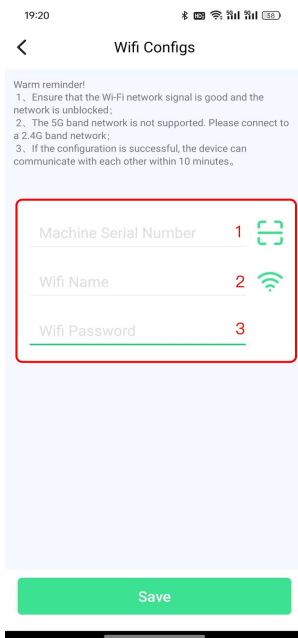


Fig. 5.2.1.1 Wifi Configuration



Fig. 5.2.1.2 Scanning Collect sticks

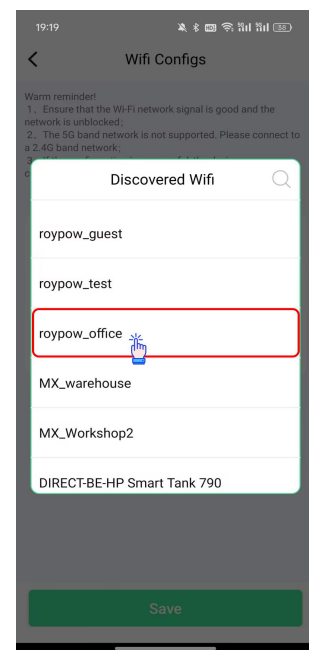


Fig. 5.2.1.3 WIFI Select

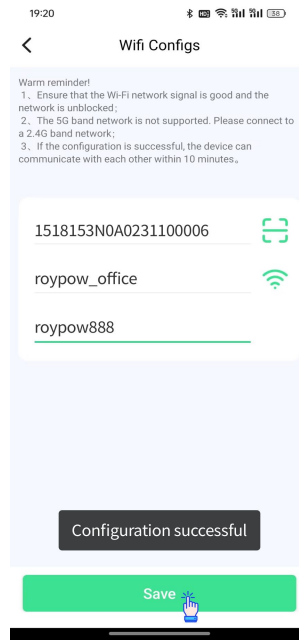


Fig.5.2.1.4 Configuration Successful

5.2.2 Select Language

You can choose App language as Figure 5.2.2.1

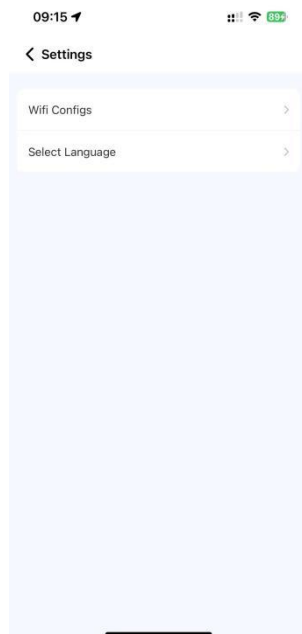


Fig. 5.2.2.1

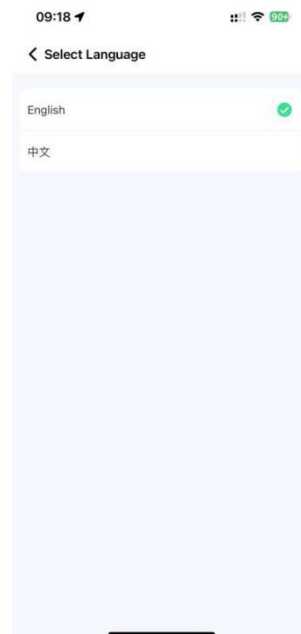


Fig. 5.2.2.2

5.3 About

Users can access information about RoyPow by clicking on **"More"** on the homepage, then selecting **"About"**. The interface is shown in Fig. 5.3.

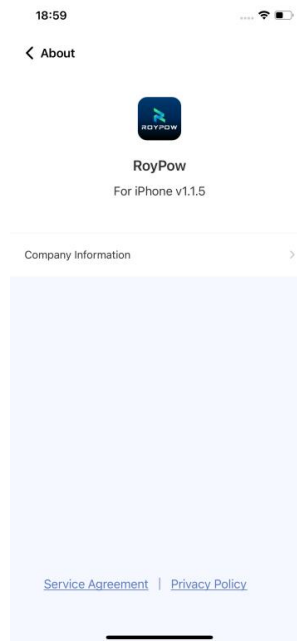


Fig. 5.3 About

5.3.1 Company Information

Click **"Company Information"** to visit RoyPow's official website, as shown in Fig. 5.3.1.



Fig. 5.3.1 Company Information

5.3.2 Service Agreement and Privacy Policy

1. Users can access the "**Service Agreement**" by clicking on "**About**" and then selecting "Service Agreement" at the bottom. This allows users to view the services provided by this software. as shown in Fig. 5.3.2.

2. Users can access the "**Privacy Policy**" by clicking on "**About**" and then selecting "Privacy Policy" at the bottom. This provides information about the specific permissions and purposes for which this software obtains permissions during installation and use. as shown in Fig. 5.3.3.

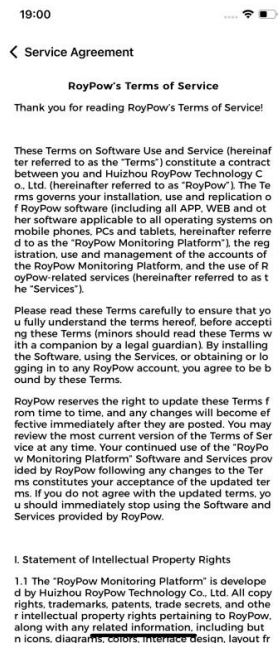


Fig. 5.3.2 Service Agreement

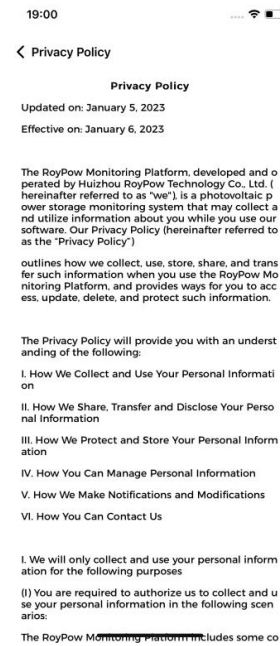


Fig. 5.3.3 Privacy Policy

5.4 Sign Out

Users can log out of their current account by clicking on "More" on the homepage, then selecting "Sign Out." In the pop-up window, click "Confirm" to log out. The log out process is illustrated in Fig. 5.4 and 5.4.1.

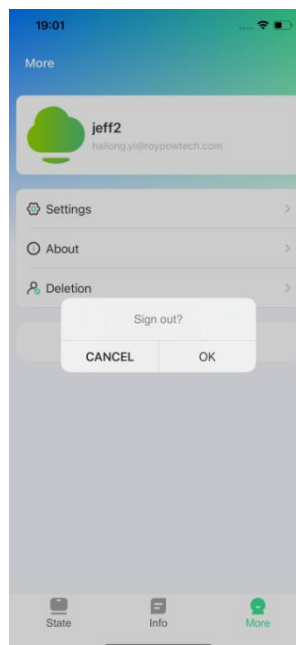


Fig. 5.4 Sign out

5.5 Deletion

Users can cancel their personal account by clicking "**More**" -> "**Deletion**" in the pop-up window and clicking -> "**Confirm**" in the pop-up window, after which the personal data will be deleted and cannot be retrieved, and the account cannot be registered again. as shown in Fig. 5.5

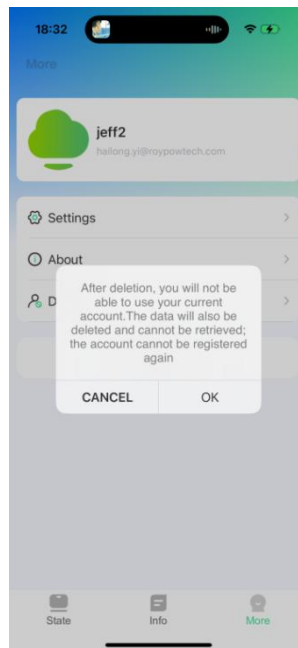


Fig. 5.5 Deletion