



REEFMAGIC Battery Monitoring App SOP (PylontechPro)

Information Version: 1.0

Legal Information

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Disclaimer

The manual contains instructions for the use of the product. All the pictures and charts in this manual are for description and explanation only. Pylon Technologies Co., Ltd. reserves the right to change the information in the manual which is subject to change without further notice.

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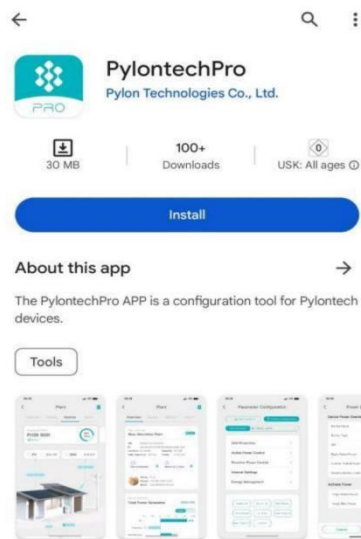
The final interpretation of this manual belongs to Pylon Technologies Co., Ltd.

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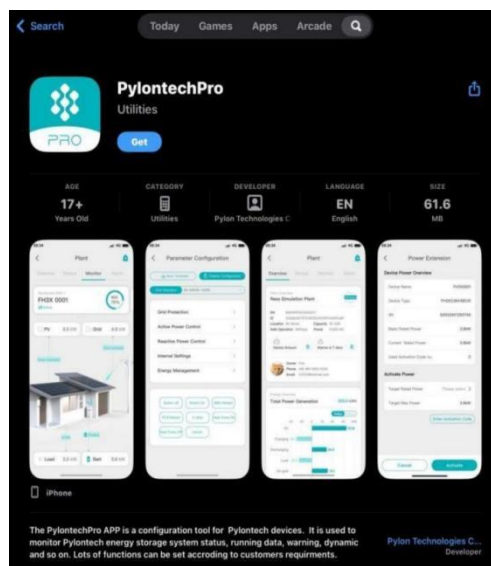
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1 Download and Install the PylontechPro App

For Android, search for PylontechPro in Google play.



For IOS, search for PylontechPro in APP Store.



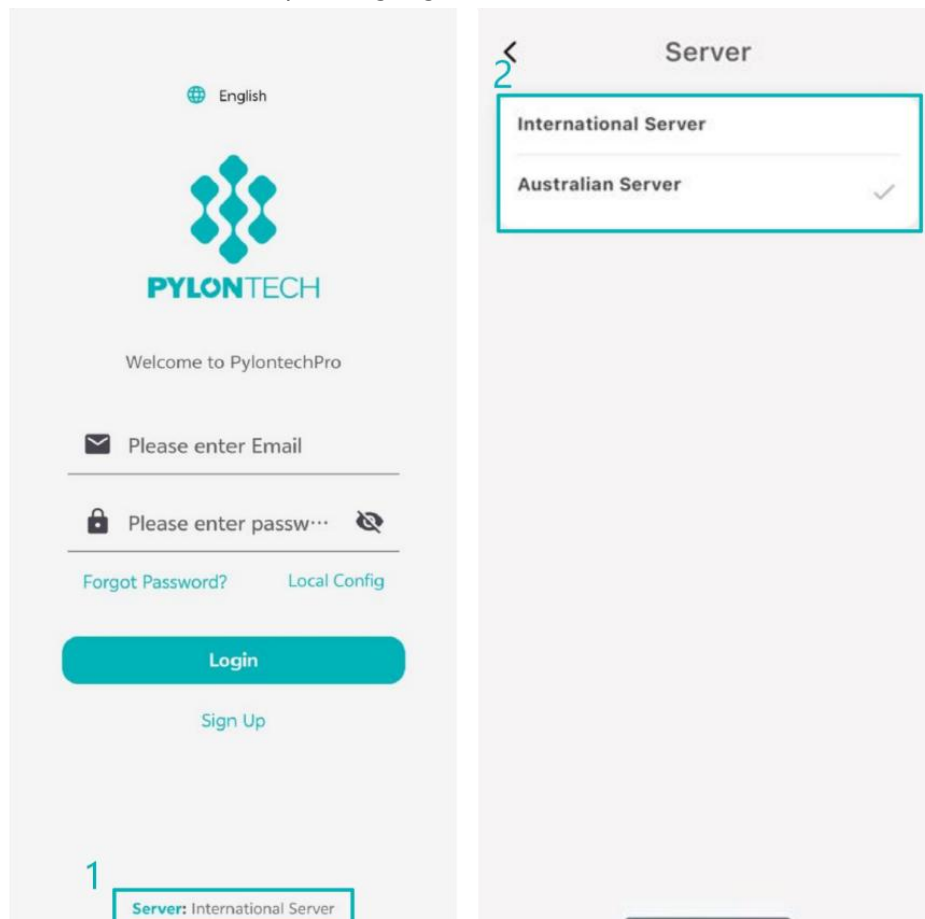
You can also download the APP by scanning the QR code below.



2 Login

2.1 Account sign-up

Please select a server in the corresponding region.

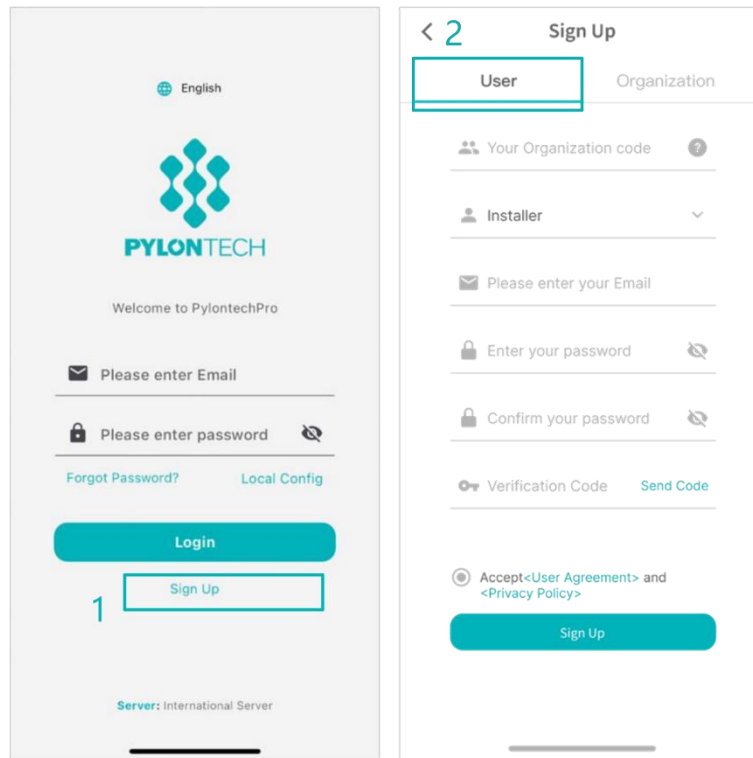


There are two roles available for registration at PylontechPro: User and Organization.

2.1.1 Sign-up as a User for installers and operation staffs

Installers and operational staff have to sign up for a personal user account and associate it with their organization to access the app.

Sign Up > User

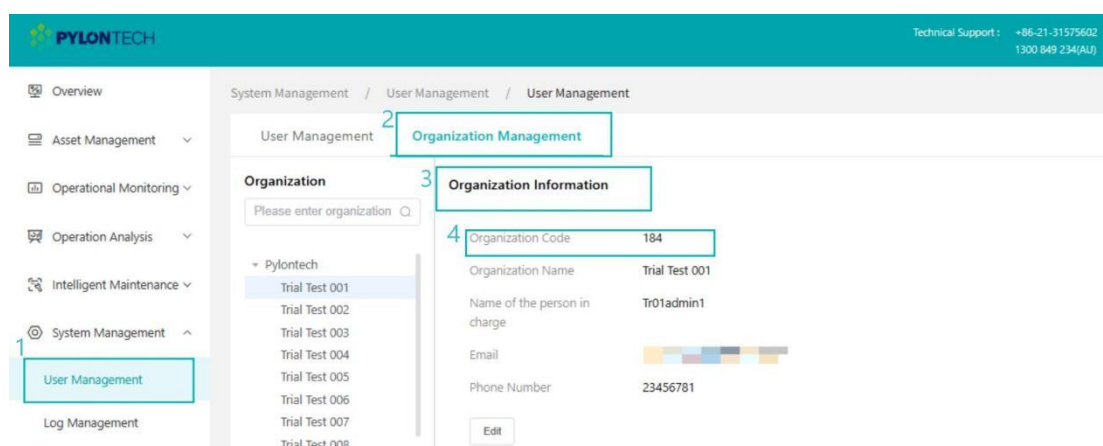


1. As an installer or operations staff member, you need to enquire your organization code from your organization administrator and enter it here.

PylontechPro is an app for professional users such as Distributors, Installers, and Operation Staff. Therefore, each user of this app must be affiliated with a registered Organization.

The organization code can be found in the web-based cloud platform via the following path:

System Management > User Management > Organization Management > Organization Information



2. Choose a role: Installer or Operation Staff.
 3. Enter your email and password, then confirm your password.
- Tap **"Send Code"**. A verification code will be sent to your email address.

Enter the verification code and tap **"Sign Up"**. Your registration request will be sent to your organization administrator for authentication.

Once the administrator approves your request, your sign-up will be completed successfully.

2.1.2 Sign-up as an Organization for organization administrators

The organization administrator needs to register the organization on the platform to manage its subordinate plants.

Sign Up > Organization

The image displays two screenshots of the PylontechPro mobile application interface. The left screenshot shows the main login screen with the Pylontech logo and a 'Sign Up' button highlighted by a red box and labeled '1'. The right screenshot shows the 'Sign Up' screen with the 'Organization' tab selected and labeled '2'. The 'Organization' screen contains fields for 'Parent organization code', 'Your organization name', 'Email', 'Password', 'Confirm password', 'Verification Code', and 'Contact phone number', followed by a 'Sign Up' button.

1. If your organization has an upper organization, please enter their Organization Code here. If parent organization code is empty, new sign up won't belong to any upper organization.

2. Enter the name of your organization.

3. Enter your email and password, then confirm your password.

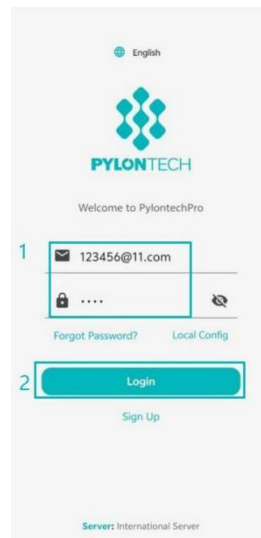
Tap **"Send Code"**. A verification code will be sent to your email address.

Enter the verification code and tap **"Sign Up"**, and then your sign-up is finished.

4. The contact number is an optional field. However, to explore more business opportunities, it is recommended that you provide your contact information here.

2.2 Login

Open the PylontechPro App, enter your email and password, tap **"Login"** to access the system.



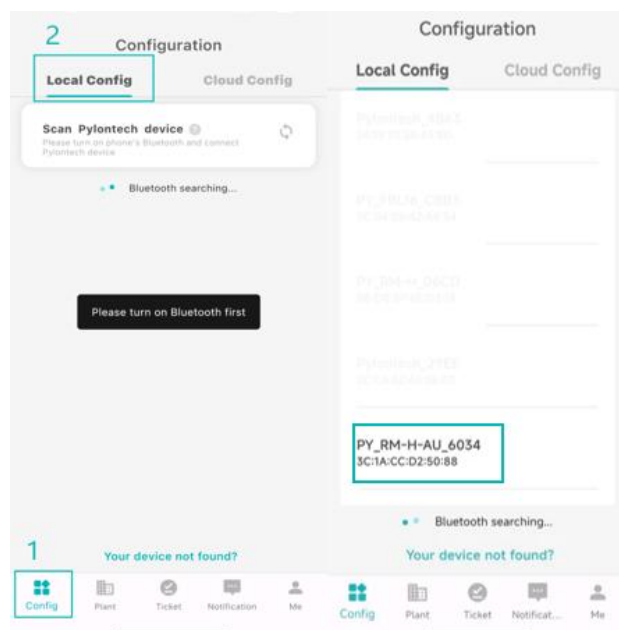
3 Local Config

3.1 Local Configuration via Bluetooth

1. Tap **"Config"** on the home page and tap **"Local Config"**.

Ensure Bluetooth is enabled on your mobile phone.

2. The app will automatically detect and display nearby devices.
3. Tap the target device to do the local configuration.

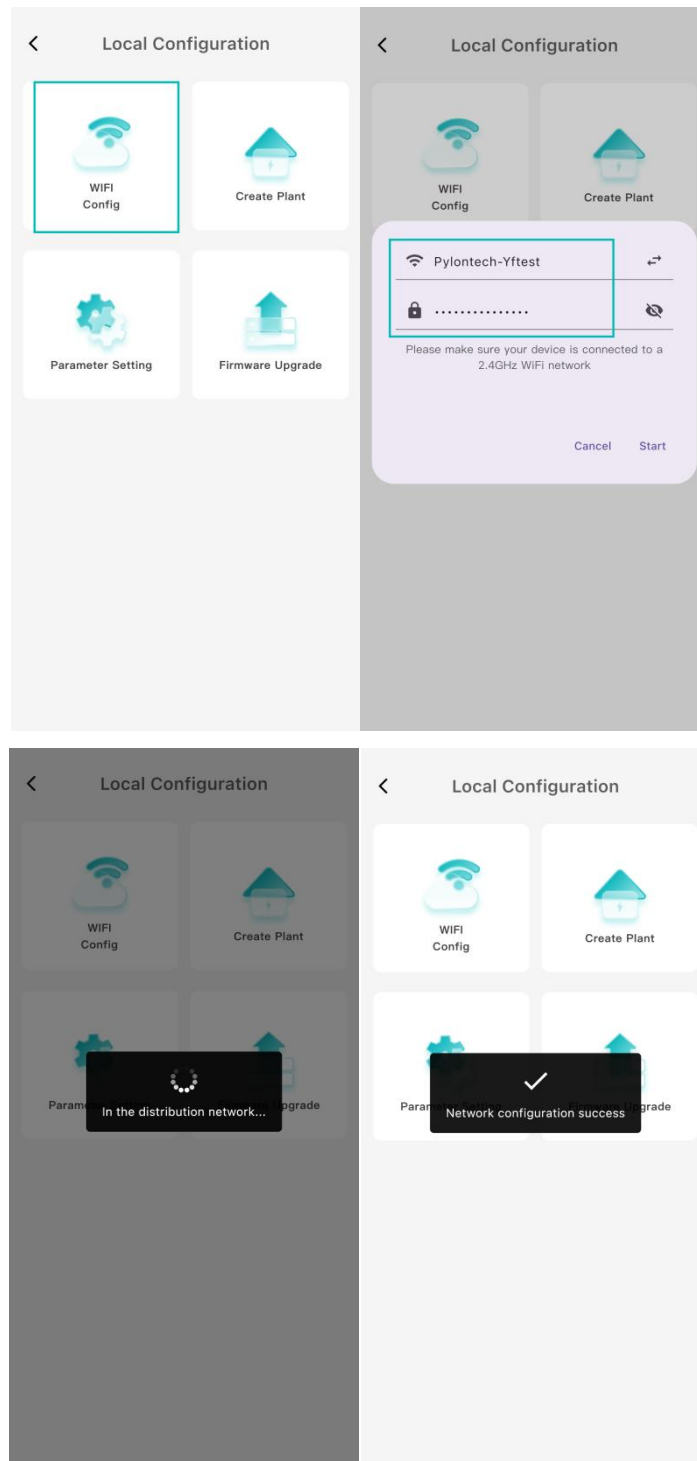


Note: The Bluetooth name consists of **PY_RM_H** and the last four digits of the logger SN. The

logger SN can be found near the cover of the control module.

3.2 WIFI Config

1. Tap **"WIFI Config"** in **Local Configuration** page.
2. Enter the WIFI account and the password.
3. Tap **"Start"** and wait. After displaying **"Network configuration success"**, the Wi-Fi has been successfully connected.



3.3 Create Plant

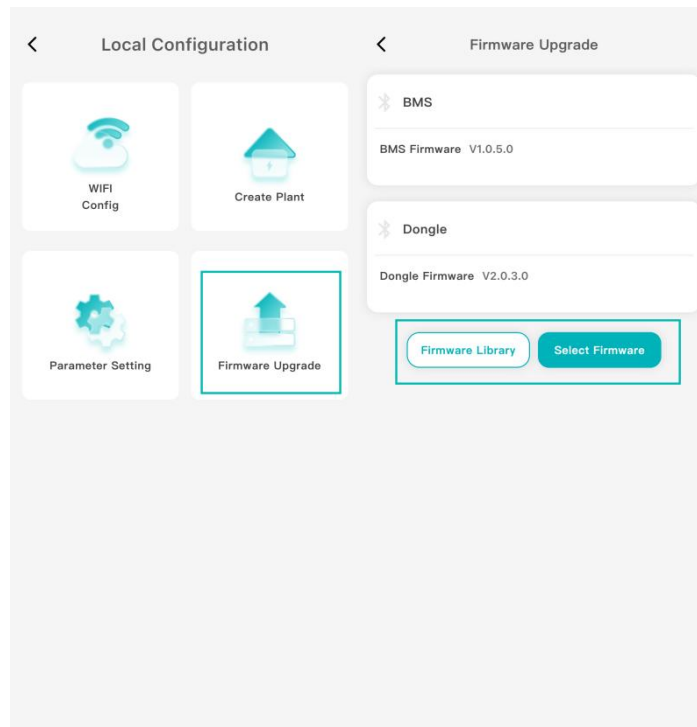
1. Tap **"Create Plant"** in **Local Configuration** page.
2. Fill in the site information, authorize the plant, and then tap **"Next"**.
3. Upload an installation image of Reefmagic battery and tap **"Next"**.
4. Tap **"Complete"** to finish the plant creation.

The screenshots illustrate the 'Create Plant' workflow:

- Local Configuration:** The 'Create Plant' option is highlighted in the top right corner.
- New Plant Creation - Step 1 (Verify):** Fields include Plant Name (0/40), SN (CCC837C9BC68), Location (Please select location), Timezone (UTC+01:00), Owner (Please enter the owner's name 0/40), Owner Phone (Please enter owner's phone 0/20), Owner Email (Please enter owner's email 0/255), Battery Capacity(kWh) (22.00), and Access Time (2026-08-03). A 'Next' button is at the bottom.
- New Plant Creation - Step 2 (Plant):** Fields include Plant Name (3307-EU 7/40), SN (CCC837C9BC68), Location (England, UK), Timezone (UTC+01:00), Owner (3307 4/40), Owner Phone (3307 4/20), Owner Email (3307@qq.com 17/255), Battery Capacity(kWh) (22.00), and Access Time (2026-08-03). A 'Next' button is at the bottom.
- New Plant Creation - Step 3 (Upload):** A photo upload area is shown with a 'Next' button at the bottom.
- New Plant Creation - Step 4 (Complete):** A confirmation screen with a smiley face and a 'Complete' button.

3.4 Firmware Upgrade

1. Tap "**Firmware Upgrade**" in **Local Configuration** page.

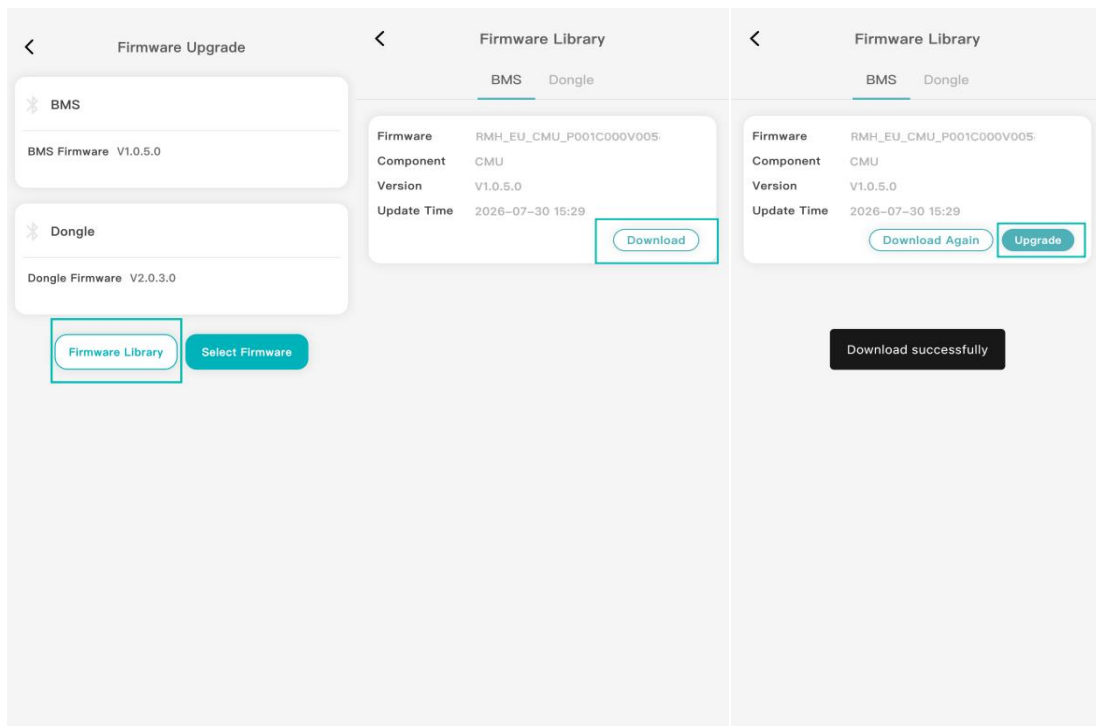


2. Select the firmware from the Firmware Library or local storage to perform the upgrade.

- Firmware library:

Tap "**Firmware library**" in the firmware upgrade page.

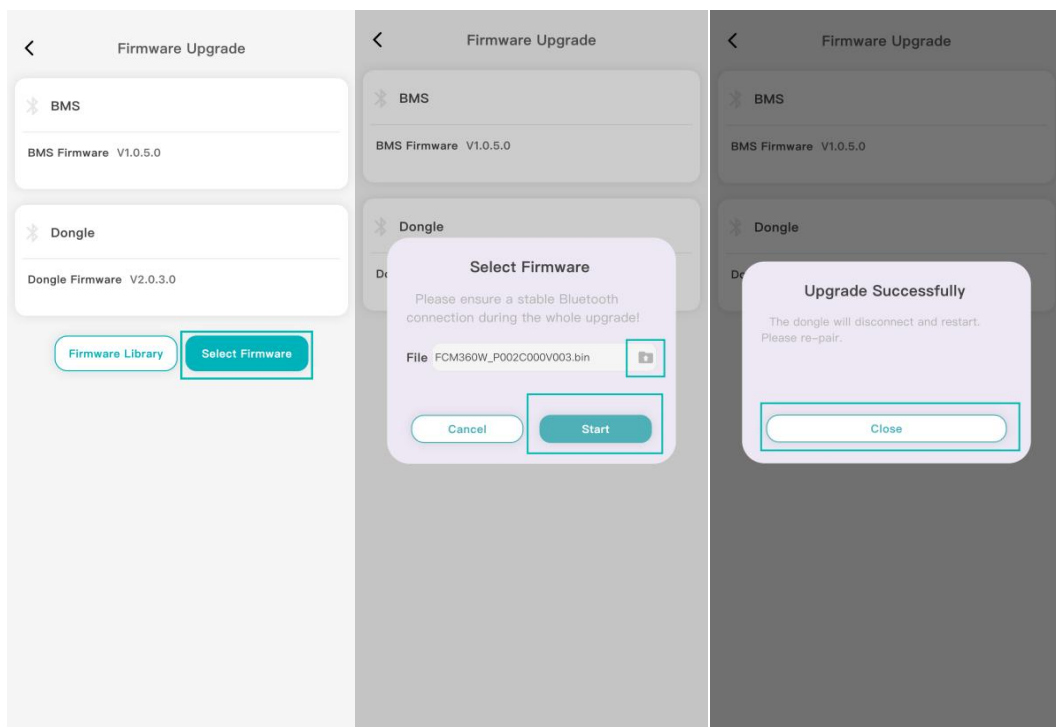
On the BMS/Dongle firmware list page, locate the latest firmware version, tap "**Download**", and then tap "**Upgrade**" to proceed with the upgrade.



- Local storage

Tap **"Select Firmware"** in the firmware upgrade page.

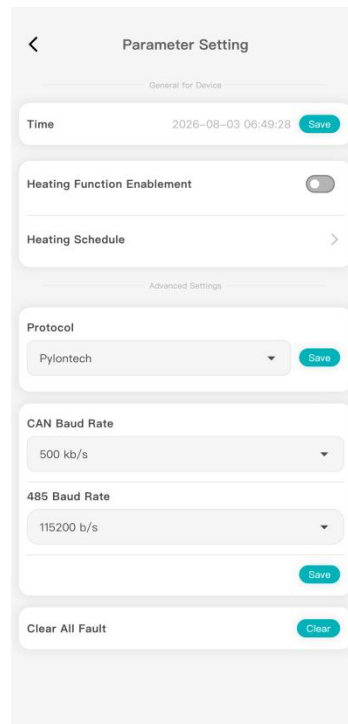
Tap the button, select the firmware file from local storage, and then tap **"Start"** to proceed with the upgrade.



3.5 Parameter Setting

Time, Protocol, CAN Baud Rate and 485 Baud Rate can be set and saved. Tap **"Clear"** to clear all

fault.



Refer to the following instructions for heating function parameter settings:

1. Enable the heating function.
2. Enable heating based on temperature:

Enable **Temperature Range Control**.

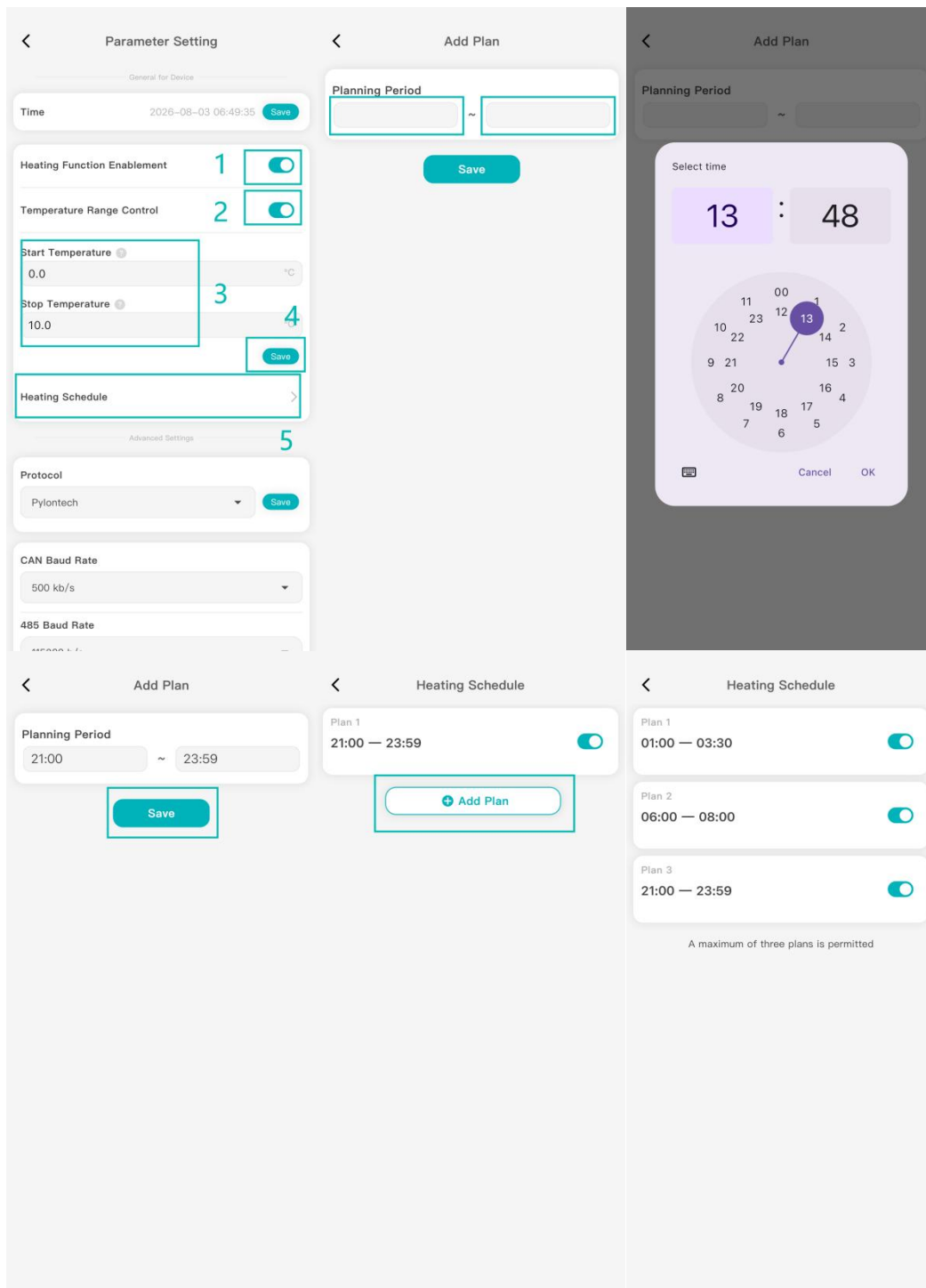
Set the Heating Start Temperature(0–5°C) and Heating Stop Temperature(10–15°C).

3. Enable heating based on schedule:

Tap "**Heating Schedule**" to set the heating time periods.

Tap the time fields to set the heating start time and end time, and then tap "**Save**".

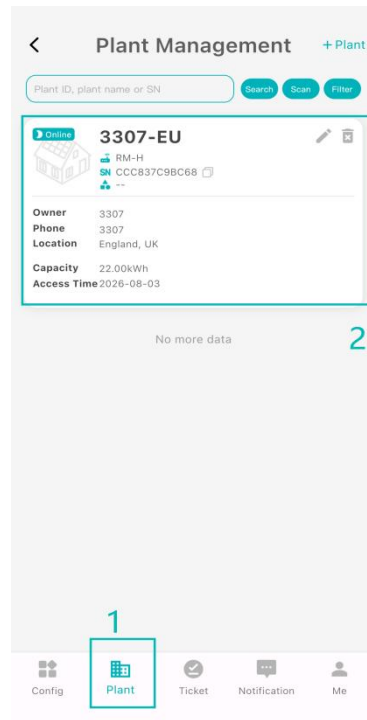
Tap "**Add Plan**" to add additional heating periods. A maximum of three heating periods can be configured.



4 Plant Management

4.1 Plant Overview

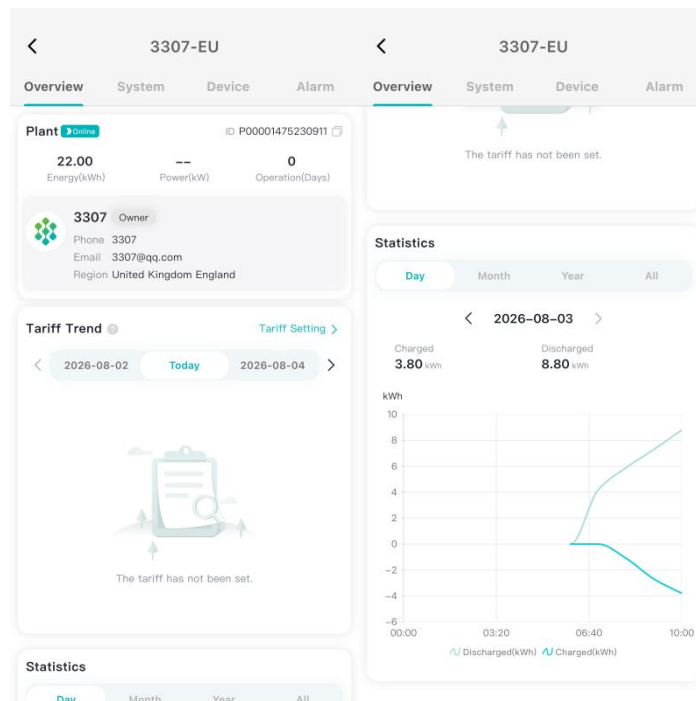
Tap on **"Plant"** and select a site to check the information.



In the **Overview** page, the following items can be checked:

Plant: Energy capacity and operating days can be checked.

Statistics: Cumulative charge and discharge capacity can be checked.

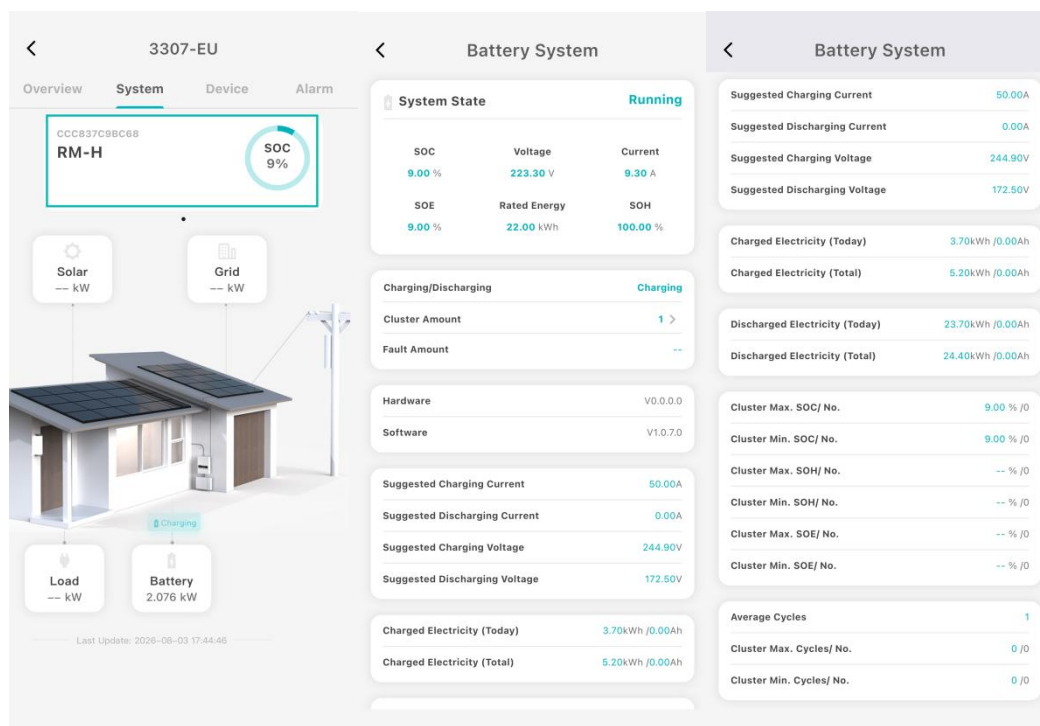


4.2 System

In the **System** page, the following items can be checked:

Battery card: The serial number, model, SOC can be checked. Click on the battery card to see more information.

Energy flow: The battery status and power can be checked in the diagram.

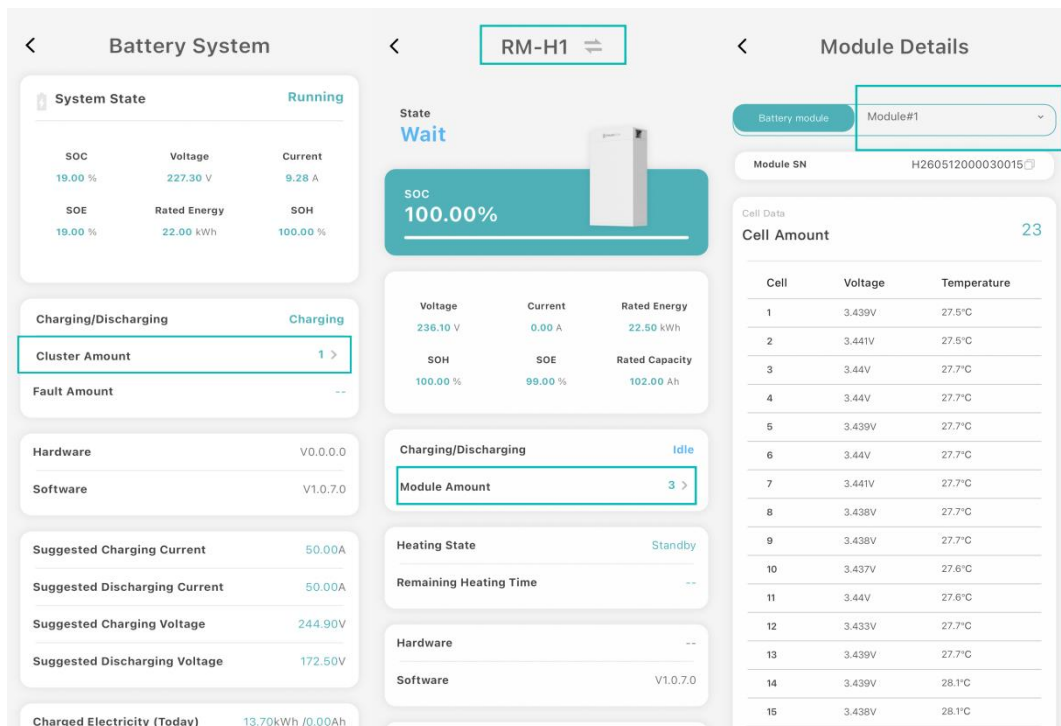


Click "**Cluster Amount**" to check cluster information.

If multiple battery clusters are installed in the system, tap the button at the top to switch between and view the information of different battery clusters.

Click "**Module Amount**" to check the information of each module in the battery cluster.

Tap the button at the top to switch between and view the information of different module.



4.3 Device

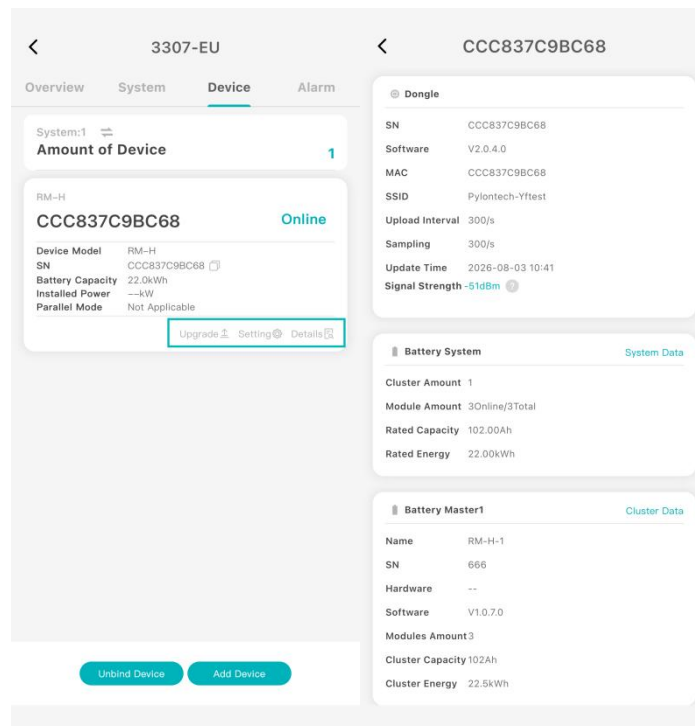
In the **Device** page, the following items can be checked:

Number of devices in the plant, model, serial number, battery capacity for the plant can be checked. On this interface, you can add or unbind devices. Multiple devices can be managed within the same site.

Tap **"Upgrade"** to upgrade the battery, referring to the **Firmware Upgrade** section

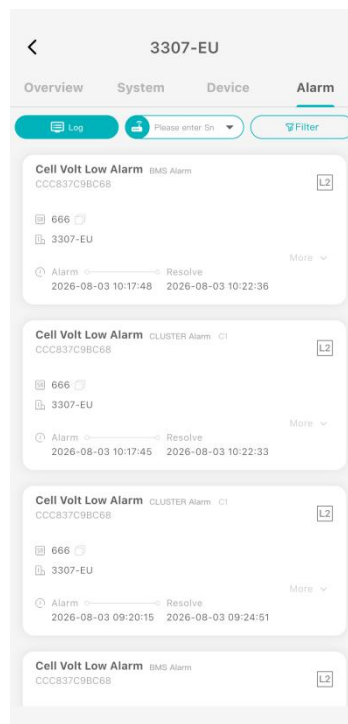
Tap **"Settings"** to configure the device, such as working mode setup. For details, refer to the **Parameter Setting** section.

Tap **"Details"** to check version information.



4.4 Alarm

In the **Alarm** page, the faults and warnings can be checked.





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