PV Hub 2.0 App
User Manual

Manual Version: 2.0

Date: Nov 21, 2025

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Content

1. PV Hub 2.0 Introduction

The PV Hub 2.0 app allows remote management of devices at any time, from anywhere. You can set and choose personalized energy-saving strategies for your family and enjoy your life with the help of our special features.

NOTE

Local, physical settings take precedence over app settings. Remote operation through the mobile application cannot serve as evidence of circuit safety, as it must be verified and confirmed through on-site inspection. Failure to conduct an on-site inspection prior to work may result in personal injury or even fatality.

2. PV Hub 2.0 Installation

Hardware and software environment requirements for Android version of the phone

- Mobile phone memory of 1G or more.
- Android 7 and above operating system.

Hardware and software environment requirements for Apple version of the phone

- Require iPhone 6s and above.
- 1G+ memory on board.
- Ios 13 and above operating system.

To download the PV Hub 2.0 app, visit the App Store or Google Play. Or scan the following QR code to down the app.

Download on the App Store

GET IT ON Google Play

The following operation applies to the PV Hub 2.0 App.

3. Getting Started

3.1 Register an Account

About Role:

Owner: Users who own the Plant.

Installer / Agent: Users who provide owners with services such as Plant creation and O&M.

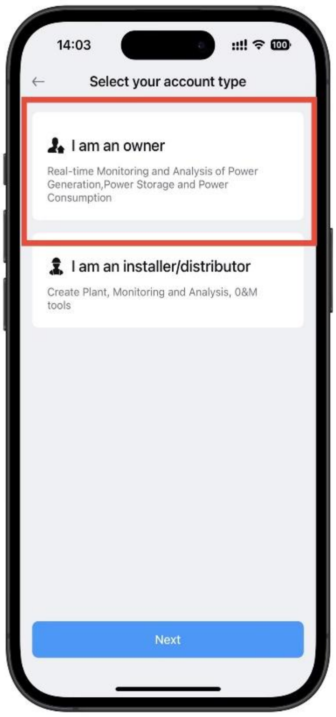
3.1.1 Register an Owner Account

Step 1: Open PV Hub 2.0 and click “Getting Started”.

Step 2: Select region and click “Create an account”.

Step 3: Read Privacy Policy and Terms & Conditions, click **"Read relevant regulations"** and click **“Agree”**.

Step 4: Select **“I am an owner”** and click **“Next”**.



Note: If you are an installer or agent, please turn to “Register an Installer or Agent Account”.

Step 5: Fill in the required information and click **“Submit”**

Parameter	**Description**	Required
User name	It will be used as your login credentials	Required
Password	It should contain at least 8 characters. Better contain symbols, numbers, and letters.	Required
SN	The serial number of your device. It is used to identify and link your account to the correct device.	Required
Email	It will be used as your login credentials.	Optional

Step 6: Click **“Go to connect”** to start connecting your device to network.

Step 7: Wait for the system to search for devices. Once the search is complete, check the SN to confirm the device(s) is detected. Once verified, click **“Connecting Network”**.

Note: Alternatively, you can scan the QR code on your device or enter the SN manually.

Step 8: Select the network to configure your device. Once complete, click **“Next”**.

Note: If your WIFI is 5G Hz, please set it to 2.4G Hz, otherwise, network configuration may fail.

Step 9: Wait while the system configures the network. When it’s done, click **“Finish”** to complete the registration.

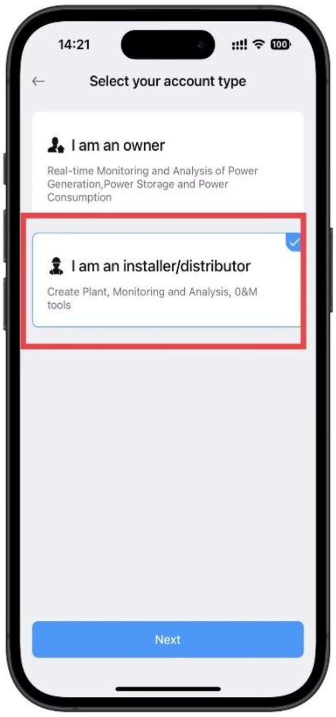
3.1.2 Register an Installer or Agent Account

Step 1: Open PV Hub 2.0 and click “Getting Started”

Step 2: Select region and click “Create an account”.

Step 3: Read Privacy Policy and Terms & Conditions, click **"Read relevant regulations"** and click **“Agree”**.

Step 4: Select **“I am an installer/distributor”** and click **“Next”**.

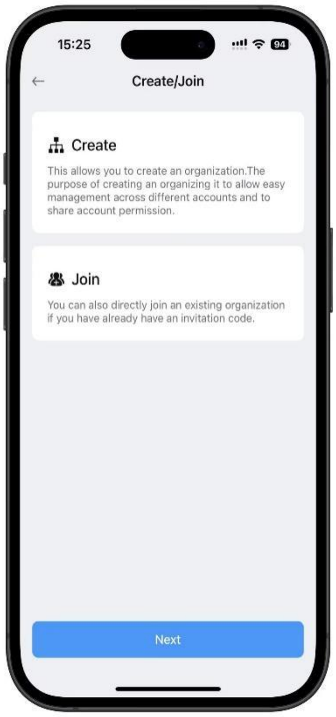


Note: If you are an owner, please turn to "Register an Owner Account".

Step 5: Fill in the required information and click "**Next**".

Parameter	**Description**	**Required / Optional**
User Name	It will be used as your login credentials	Required
Password	It should contain at least 8 characters. Better contain symbols, numbers, and letters.	Required
Email	It will be used as your login credentials.	Required

Step 6: Choose whether to create a new organization or join an existing one.



Option A: Select "Create"

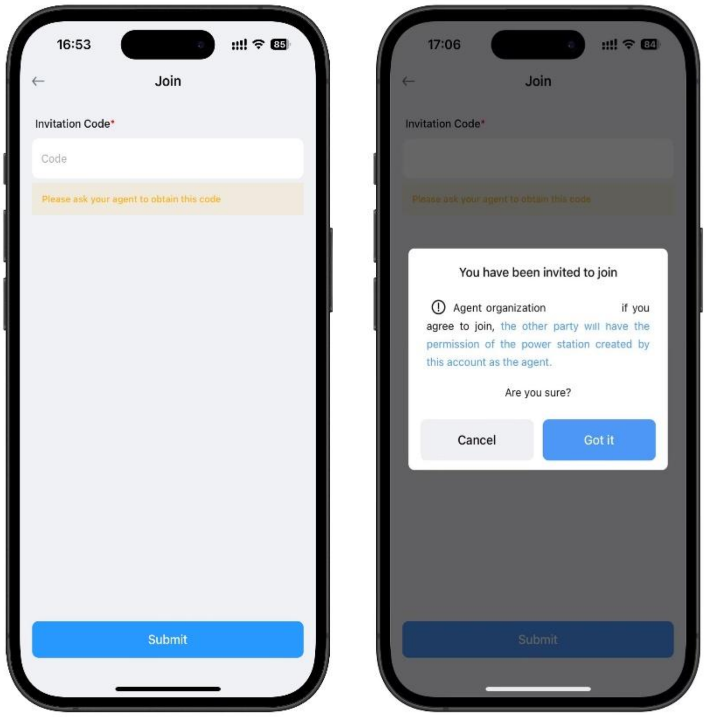
- Fill in the required information and click "**Submit**" to finish the registration.

Parameter	Description	Required / Optional
Organization Name	The official name of your organization.	Required
Country / Region	The country or region where your organization is located.	Required
Address	The detailed location of your organization.	Required
Post Code	The postal or ZIP code of your organization's location.	Optional

Contact Information	Email, phone number, or other contact details for your organization.	Optional

Option B: Select "Join"

- Enter the invitation code you received from an agent of the organization you wish to join.
- Read the notice carefully. Once you agree, click **"Got it"** to complete the registration.



3.2 Sign in

Before proceeding, ensure you have:

- Installed PV Hub 2.0 App
- Valid PV Hub account credentials
- Stable internet connection

Login Procedure

Step 1: Open PV Hub 2.0 App

Step 2: Select the server and system language from the dropdown in the upper-left corner of the page.

Step 3: Agree Privacy Policy and Terms & Conditions.

Step 4: Enter the email or username and password on the page, and click **"Sign in"**.

3.3 Create a Plant

3.3.1 For Owner Accounts

Step 1: Click “**Create a plant”** if no plant has been created.

Step 2: Add your device by scanning the SN on your device or entering it manually.

Step 3: Fill in the required information.

Parameter	**Description**	**Required / Optional**
Plant Name	Unique identifier for the Plant	Required
Country / Region	The country or region where your Plant is located.	Required
City	Specify the city where your Plant is located.	Required
Post Code	The postal or ZIP code of your Plant’s location.	Required
Time Zone	Choose the time zone corresponding to your Plant’s location to ensure correct scheduling and time-related data	Required
Plant Cover Image	Visual image for visual identification	Optional

PV Capacity	Total installed solar panel capacity	Required
Currency	Monetary unit for financial data	Optional
Unit Income	Earnings per kWh exported to the grid	Optional

Note: By click "", information related to the plant location will be auto-filled.

3.3.2 For Installer or Agent Accounts

Step 1: Click “**Create a plant”** if no plant has been created.

Step 2: Add your device by scanning the SN on your device or entering it manually.

Step 3: Fill in the required information.

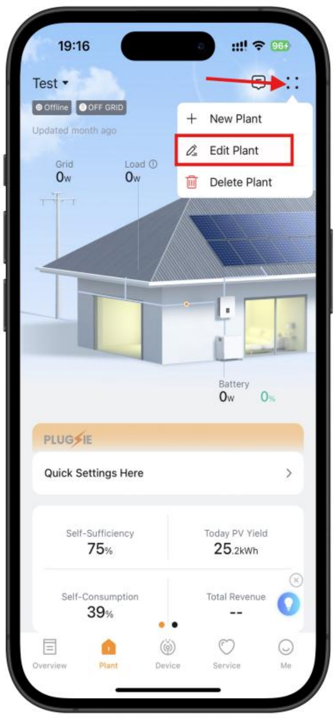
Parameter	**Description**	**Required / Optional**
Plant Name	Unique identifier for the Plant	Required
Country / Region	The country or region where your Plant is located.	Required
City	Specify the city where your Plant is located.	Required
Post Code	The postal or ZIP code of your Plant’s location.	Required
Time Zone	Choose the time zone corresponding to your Plant’s location to ensure correct scheduling and time-related data	Required
Agent	The organization under which this Plant is managed.	Required

Plant Cover Image	Visual image for visual identification	Optional
PV Capacity	Total installed solar panel capacity	Required
Currency	Monetary unit for financial data	Optional
Unit Income	Earnings per kWh exported to the grid	Optional

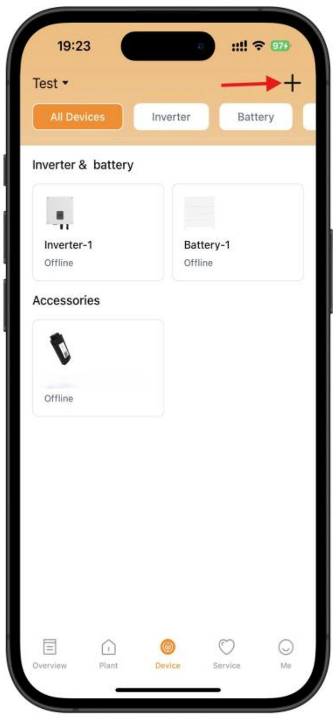
Note: By click "", information related to the plant location will be auto-filled.

3.4 Add Devices

Step 1: Navigate to Plant page, click "" and select "Edit Plant". Or Enter Device page and click ""



Or



Step 2: Add your device by scanning the SN on your device or entering it manually.

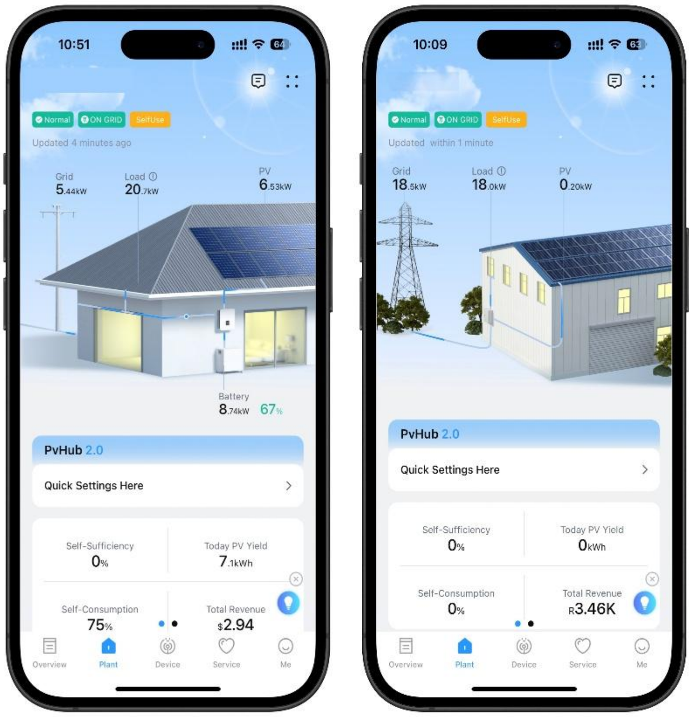
4. Plant

Select **"Plant"** from the bottom menu to view detailed Plant information and related data.

Note: The displayed information may vary depending on the device type and lant type. Please refer to your actual diagram for details.

4.1 Residential Plant and C&I Plant

Users can view the Plant status, grid status, and current work mode. The diagram presents real-time power values for each device. Arrows between device icons visualize the power flow, with their direction showing how energy is transferred within the system. In addition, the page provides an overview of today's Plant performance, including total PV yield, total revenue, self-sufficiency and self-consumption.



4.1.1 Plant Management

Click "⁚⁚" to open the dropdown menu, providing access to power plant management options.

- New Plant: Create a new Plant.

- Edit Plant: Add devices and modify Plant information.
- Delete Plant: Remove an existing plant.

4.1.2 Alarm

Navigate to the Alarm section by clicking “” in the top-right corner.

The Alarms section displays error messages for the Plant. These messages are split into two categories:

- Current: Show current issues that require attention and resolution.
- History: Provide a log of past errors that have been resolved.

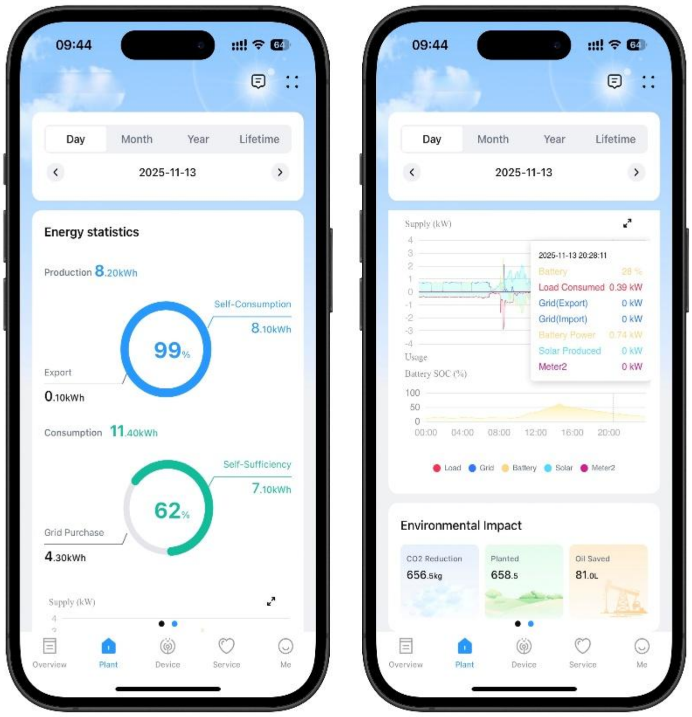
4.1.3 Data Analysis

Swipe left to enter the data analysis page. This page provides a comprehensive overview within the selected time range, allowing users to:

• Analyze detailed energy statistics.

• Observe the live power curve.

• Assess the environmental impact.



4.2 Micro Inverter Plant

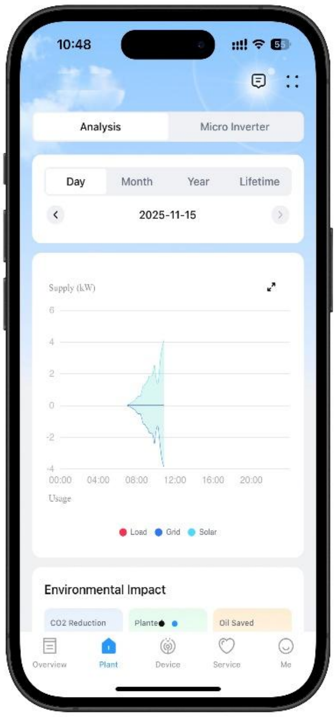
The micro inverter power flow provides a real-time visualization of the system's energy distribution, showing the interaction between solar generation, grid and load. Directional arrows clearly indicate the flow of energy between components. The diagram is complemented by key performance data, including today PV yield and total revenue.

Note: Load and grid value are only displayed if a meter is configured.

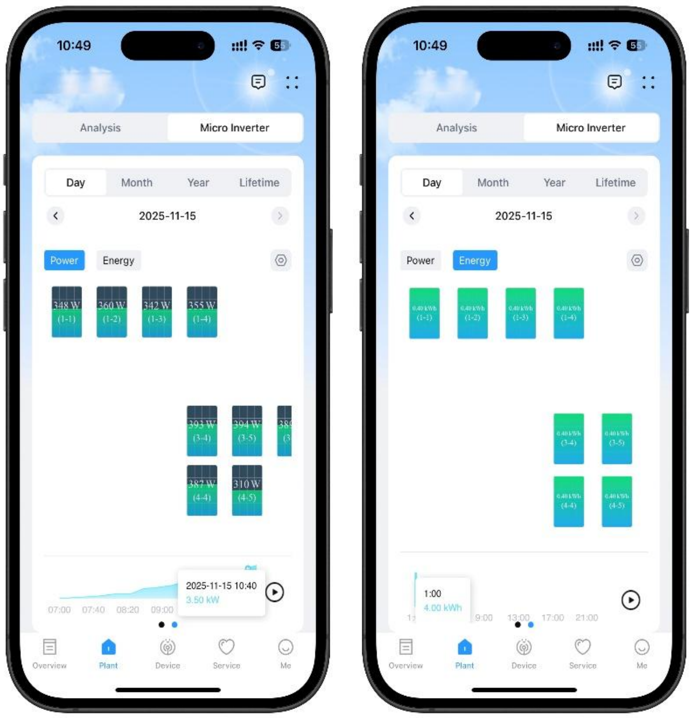
Access the Plant Management and Alarm sections using their respective buttons (see sections 4.1.1 and 4.1.2 for details).

4.2.1 Data Analysis

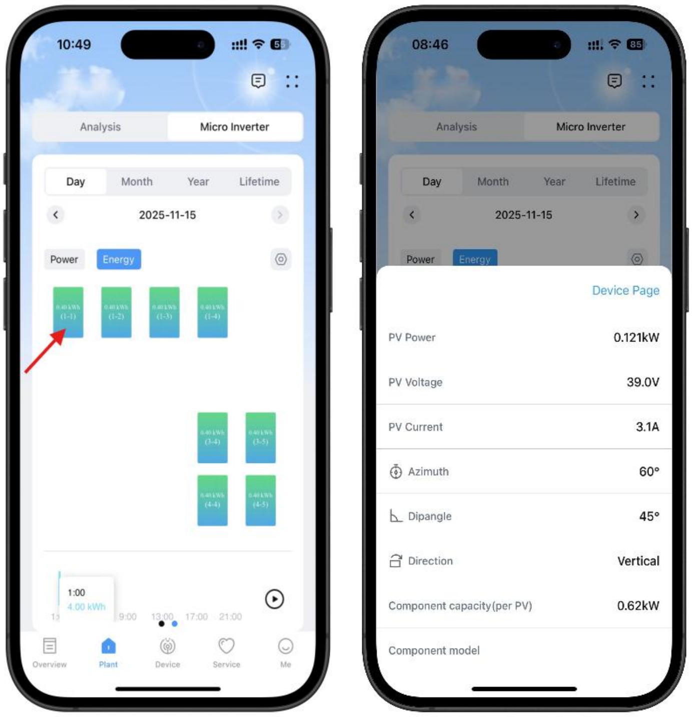
Swipe left to enter the Data Analysis page, which provides a comprehensive performance overview for your selected time range, including energy statistics, live power curves, and environmental impact data.



Beyond this system-wide view, the dedicated micro inverter analysis section offers a detailed look at the performance and physical layout of each individual PV panel.

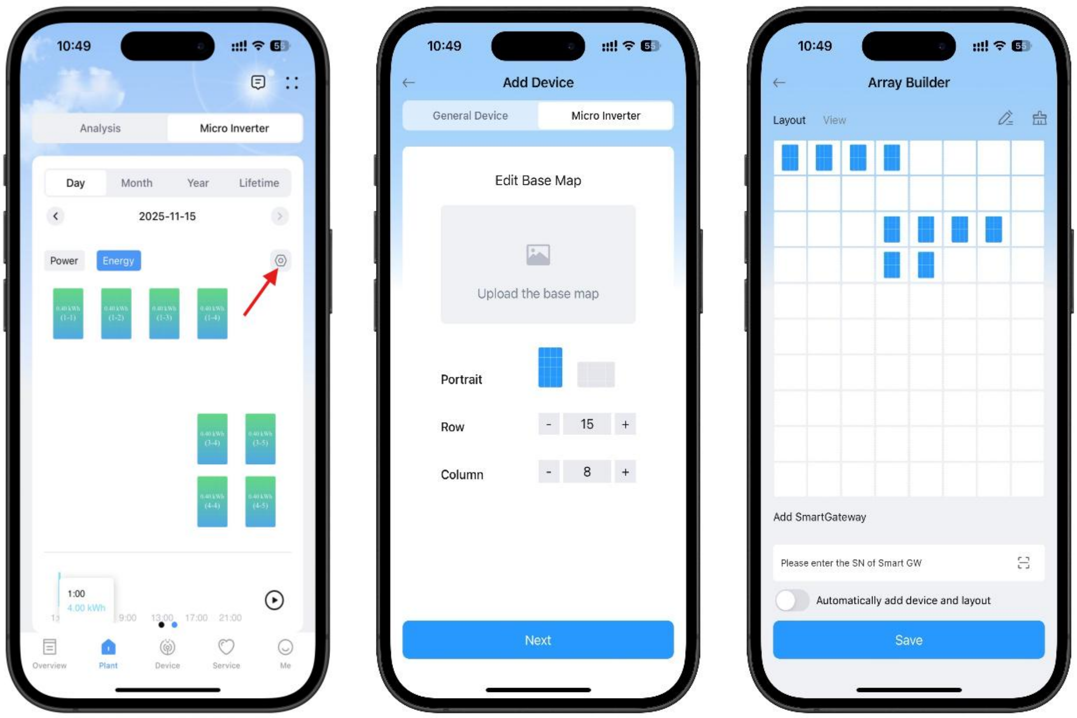


Click any panel to access its detailed data and click Device page to check all Micro Inverters. Users can view specific real-time data for every individual PV module including individual SN， PV power and Azimuth.



4.2.2 Layout

Click " " to navigate to micro inverter layout page. On this page, users can view and edit the physical layout of your microinverters to match their actual placement on the roof.



4.3 Tutorial

Click “” on the **Plant** page to access a guide on using PV Hub 2.0. This tutorial is designed to help you maximize your system's performance and is divided into two parts:

- **Novice Guide**

  Learn how to perform essential operations and configure basic settings on the Plant page to get started with your system.

- **Quick Guide**

  A step-by-step walkthrough of the entire process, from initial installation and network configuration to the operation of each individual device.

4.4 Quick Settings

Access the **“Quick Settings”** from the **Plant** page to view and configure the parameters.

- **Grid Charging Time:** Configure specific time periods when the system is permitted to charge from the grid.
- **Battery Reserve Capacity:** Set reserve SOC to stop discharging in grid connected mode when this SOC is reached.
- **System Min SoC:** Set Min SOC to stop discharging in off-grid mode when this SOC is reached.

Note: It should be set lower than the battery reserve SOC.

- **Work Mode:** For more details, please refer to **"Work Mode"**.
- **Advanced Settings (installer and agent accounts only):** Provide advanced configuration options for customizing system behavior and optimizing performance

5. Device

From the bottom navigation bar, select **"Device"** to go to the device management page

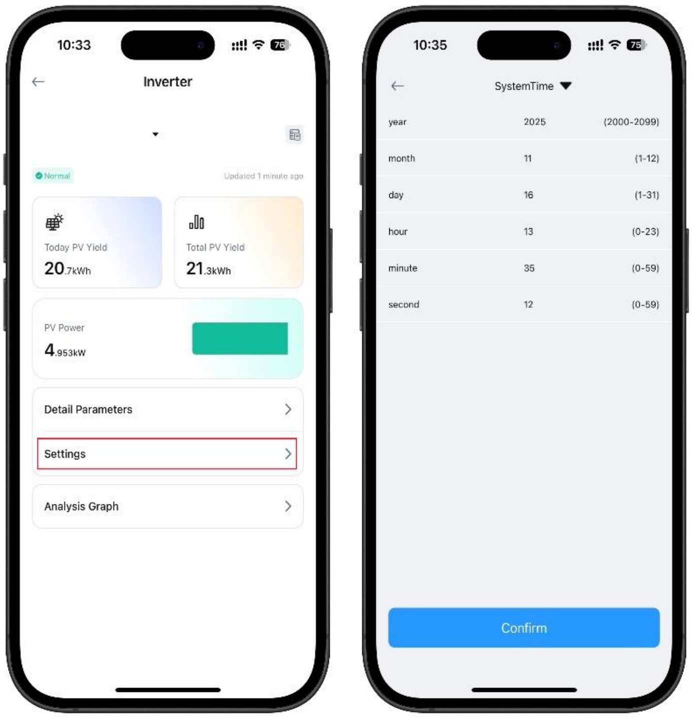
This page provides a detailed inventory of all devices within users' Plant. It offers a centralized view of every device in the system. To inspect a specific device, simply select it from the page to access its dedicated details page, where you can review its real-time status, operational parameters, and historical data.

5.1 Settings (Installer and Agent Account Only)

This section offers advanced, installer-level configuration options for the device. It is intended for use by qualified installers or agents to optimize system performance, adjust operational parameters, and tailor the system to the owner's specific requirements on their behalf.

Step 1: From the **"Device"** page, select the inverter you wish to inspect or configure.

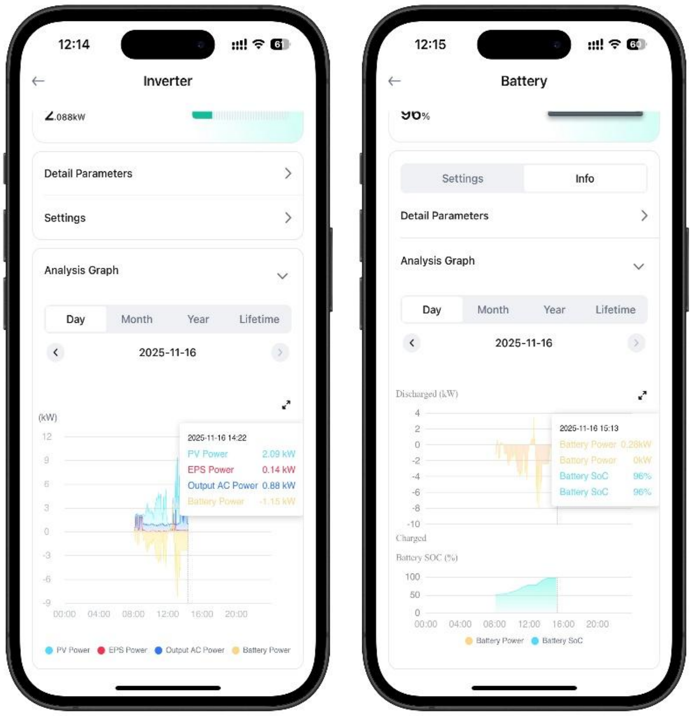
Step 2: Click **"Settings"** then choose the desired parameters from the dropdown menu to view or adjust their values.



5.2 Analysis Graph

Select the desired device from the **"Device"** page, then click **"Analysis Graph"** to view its data curve

The real-time curve provides a dynamic visual representation of the device's key power parameters. Users can select the desired time range (day, month, year, or total) from the date selector and simply click on any parameter within the curve legend to instantly show or hide its data series on the graph, enabling a tailored analytical view.



Note: A negative battery power value indicates that the battery is charging.

5.3 Initiate EV Charger charging

To manage the EV charger, select it from the list on the **Device** page.

Note: Please ensure the charging connector is fully inserted into both the charger and vehicle before charging.

Option A: Start Charging via APP

Step 1: Navigate to the **“Device”** page and select the desired EV Charger.

Step 2: Click “Start to Charge” once the handle is plugged.

To stop charging, press the **“Stop Charging”** button. The system will also halt charging automatically when the vehicle's battery is full.

Option B: Start Charging via RFID Card

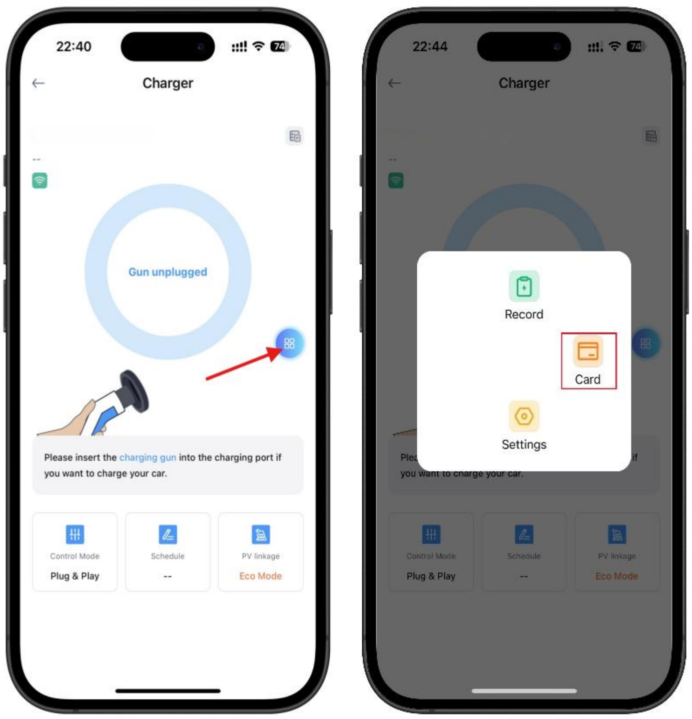
Hold the RFID card with the ring pattern facing the reader, then tap it on the designated area.

To stop charging manually, simply swipe your RFID card over the reader.

5.3.1 Add a RFID Card

Step 1: Navigate to the **“Device”** page and select the desired EV Charger.

Step 2: Click **“****”** and select **“Card”**



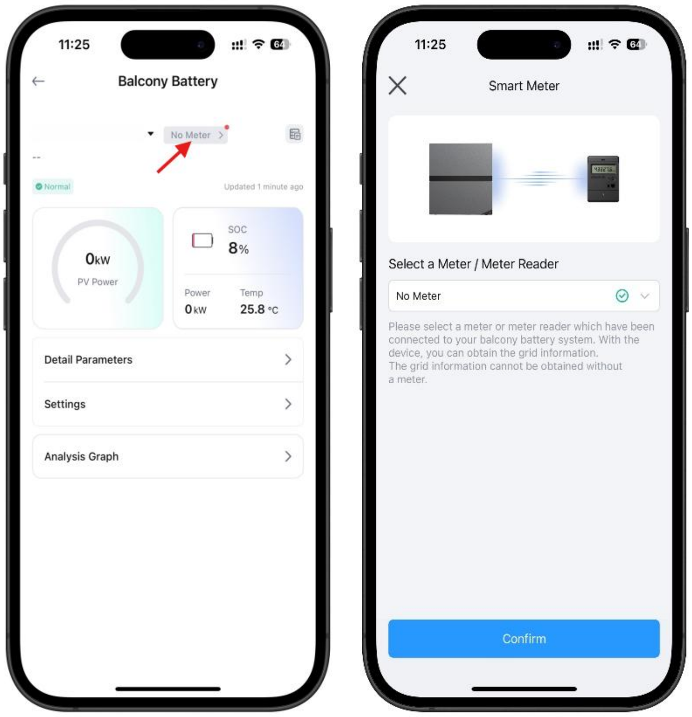
Step 3: Click **“****”** to add a new RFID card, then hold your RFID card to the charger's reader until you hear a beep. Enter a name for the card to save it. Saved RFID cards can be used to start and stop charging sessions.

Note: The EV charger is provided with two RFID cards, and at most 8 RFID cards can be added to one EV charger.

5.4 Select a Smart Meter for Balcony Battery

Step 1: Access the **Device** page and choose the **Balcony Battery** that you wish to manage.

Step 2: Click the meter status and select a smart meter.



Note: The grid information cannot be obtained without a meter.

6. Overview (Installer and Agent Accounts Only)

The Overview section serves as the central management dashboard for installers and agents to monitor and manage all Plants bound to their account. On this page, users can manage Plant with the following features:

- View Total PV Yield

  Track cumulative energy production data, with filters available for Day, Month, Year, and Lifetime periods.

- Monitor Plant Status

  Check Plant status with corresponding quantity per status. Click Normal, Faults or Offline to check plants in the selected state.

- Create a New Plant

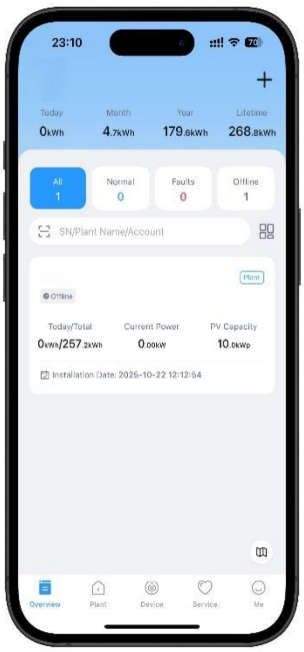
  Click **“+”** to register a new plant in the system.

- Toggle Layout View

  Switch between list and image layout modes using **“ ”**.

- Review Plant List

  Browse the full list of bound plants, with key details such as PV Yield and PV Capacity displayed for each Plant. Click any Plant to enter **Plant** page.



7. Service (Installer and Agent Accounts Only)

The Service section is a dedicated page to empower our installers and agents with the essential tools and information for ongoing Plant management and customer support. It is organized into two main parts:

1. Report

This part provides systematic reporting capabilities for professional analysis and documentation.

- Generate and export performance reports for specific Plants or periods.
- Access fault and maintenance history logs.

2. Information

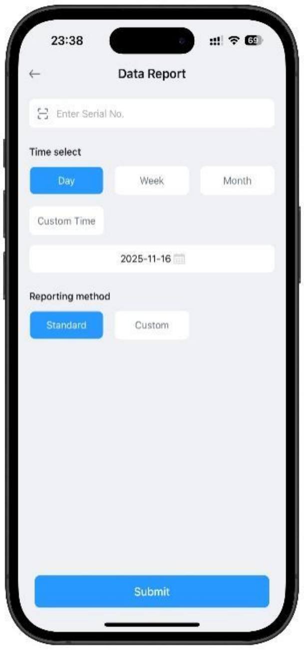
Click **“Manual”** to navigate directly to the **Quick Guide**.

7.1 Export a Report

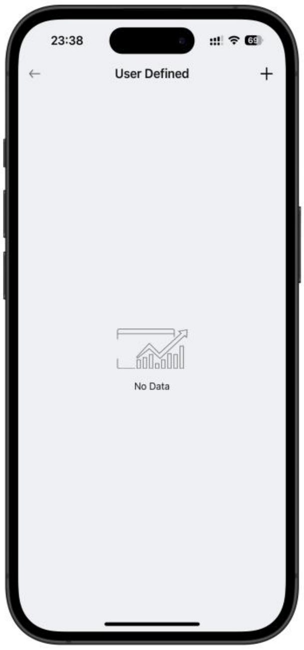
Step 1: Enter Service page and click **“Data”**.

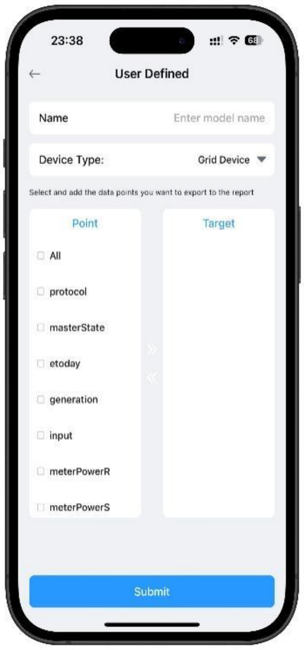
Step 2: Enter or scan the device's SN.

Step 3: Select a time range and your preferred reporting format. Once complete, click **“Submit”** to generate a report.



In addition to the default standard format, users can create personalized report formats. When creating a template, you can assign a custom name and select the specific set of parameters to include.





7.2 Faults

The Alarm section is organized into two key parts:

- Current Alarm: Show the specific error messages and detailed descriptions for each active alarm.
- Historical Alarm: Review past error messages. Users can customize time ranges.

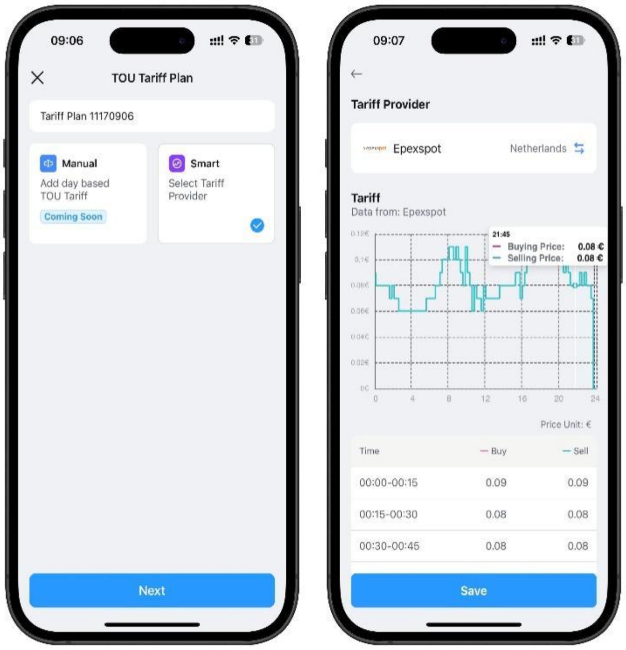
8. Smart Tariff

This feature automatically retrieves and applies the latest electricity pricing from your tariff provider. It ensures your system's economic strategy always reflects current dynamic pricing, eliminating the need for manual updates.

Step 1: Navigate to the **Me** page and click **"System Settings"**.

Step 2: Select "**Tariff"** and then click **"+"**.

Step 3: Choose **"Smart"** and select your preferred tariff provider.



Note: Epexspot is available in the first release. More tariff providers will be available in future updates.

9. Work Mode

Navigate to the Plant, select the desired plant. Then, proceed to "Quick Settings" to configure the **"Work Mode"** .

The work mode feature allows users to customize the Plant's operational behavior based on varying energy needs. Users can select from modes to optimize energy distribution, prioritize power sources, or align with time-based electricity tariffs.

9.1 Self-use

The self-use mode maximizes the utilization of PV output and battery energy to power the loads, thus minimizing the consumption of grid energy.

Basic logic

• When the PV output power is sufficient, the PV energy will be first supplied to the loads, with the excess stored in the battery. If, after this, there is still any energy surplus, it will be fed into the grid.

• If the PV output power is insufficient to meet the load demand, the system supplies the energy stored in the battery to the load. If the battery capacity is insufficient, the system purchases energy from the grid to fulfill the load demand.

9.2 Feed-in Priority

The Feed-in priority mode prioritizes electricity sales to generate income.

Basic Logic

• When the PV is generating, the PV energy will be first supplied to the loads, the excess energy will be fed into the grid. If the feed-in limits are achieved, the energy will be stored in the battery.

9.3 Back Up

In this mode, the battery charges at the maximum power until reaching the backup SOC, while battery discharging is not allowed.

Basic Logic

- When the PV output power is sufficient, the system uses the PV power to charge the battery first. If, after this, there is excess energy, it will be supplied to the load.
- If the PV power cannot meet the backup demand, the system purchases energy from the grid to charge the battery.
- The battery is allowed to discharge while the current SOC exceeds backup SOC.

9.4 Peak Shaving

The peak shaving mode implements energy management strategies by setting battery SOC and grid import limits according to production schedules, reducing overall energy consumption during peak periods.

Basic Logic

Peak shaving requires setting two parameters: the import limit and threshold SOC.

- When battery SOC is above the threshold SOC, the system operates in self-use mode.
- When your battery SOC drops below the set threshold SOC, the system automatically activates peak shaving to reduce electricity costs. During this mode, your battery will only provide power when your home's electricity demand exceeds the import limit you've set.
- If grid draw continuously exceeds the import limit, battery depletion will occur until reaching the minimum SOC protection level. At this point, peak shaving automatically suspends to prevent battery damage, switching to fail-safe operation. The threshold SOC setting thus balances daily self-consumption with extended peak-cost avoidance.

10. Me

The **Me** section is your personal center for managing all aspects of user profile and system-wide preferences.

10.1 Account Settings

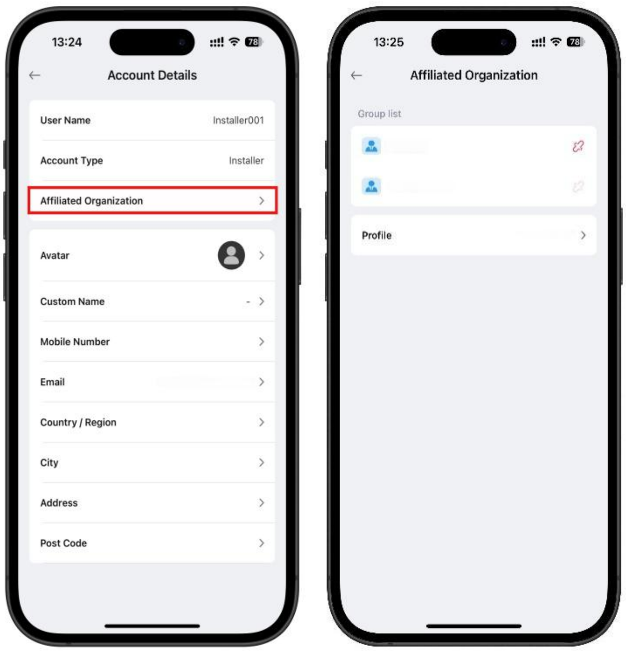
Enter **Me** page and click your avatar

Users can change avatar, customize name and update information related to account security and location. For installer and agent accounts, they could also check affiliated organization in this page.

10.1.1 Organization Management (Installer Account Only)

Installers can manage their affiliated organization in this section. Here, installers can see a list of all organizations they belong to and unbind from them if needed.

Additionally, installers can set your default organizational profile. Any new Plant installers create will be seamlessly bound to this organization.



10.2 WLAN Configuration

Step 1: Enter Me page and click “WLAN Configuration”.

Step 2: Wait for the system to search for devices.

Note: Alternatively, you can scan the QR code on your device or enter the SN manually

Step 3: Once the search is complete, check the SN to confirm the device(s) is detected. Once verified, click **“Connect Network”**.

Step 4: Select the network to configure your device. Once complete, click **“Next”**.

Step 5: Wait for the system to connect device(s) to the network. Once complete, click **“OK”** to finish WLAN Configuration.

10.3 Data and Faults (Owner Account Only)

Owners can generate reports and monitor faults for all plants in their portfolio. For detailed instructions, please refer to **7.1 Export a Report** and **7.2 Faults**.

10.4 About

Users can access the following information in this section:

- View the current app version
- Review the Privacy Policy and Terms & Conditions

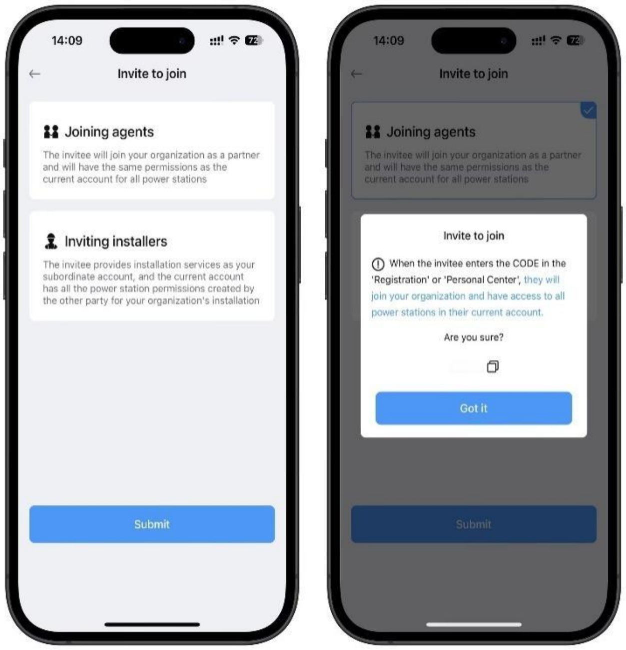
10.5 Join (Installer Account Only)

Installers can join an organization by entering a valid invitation code received from an agent within the organization.

10.6 Invite to Join (Agent Account Only)

Step 1: Enter Me page and select **"Invite to join"**.

Step 2: Determine the level of access the invitee requires, select the corresponding invitation code.

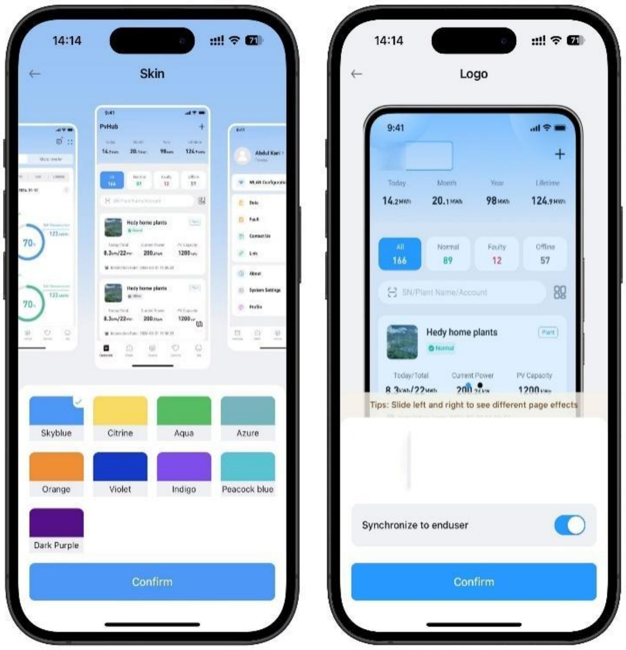


Step 3: Carefully confirm that you have selected the correct invite type, click **"Got it"** and send the code to the invitee.

10.7 Profile (Agent Account Only)

In the Profile section, you can personalize the interface to your preferences:

- Skin: Modify the theme color of the entire interface.
- Logo: Upload or change the logo displayed in PV Hub 2.0.



10.8 System Settings

This section allows users to configure global application preferences and security options.

Global Preferences

- Change the interface language.
- Enable or disable the Novice Guide.

Account Management

- Change your password.
- Deactivate or cancel your account.

For Owner accounts, this section also provides access to tariff configuration. For detailed instructions, please refer to **8. Smart Tariff**.

10.9 Log Out

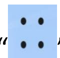
Users will be logged out and returned to the login page.

11. FAQs

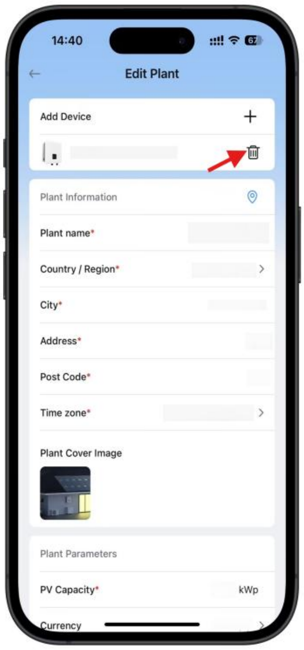
11.1 How to Delete Devices

Operation A: Delete Devices from Plant page

Step 1: Enter **Plant** page and select the Plant you want to delete device(s)

Step 2: Click “” to open the dropdown menu and select **“Edit Plant”**.

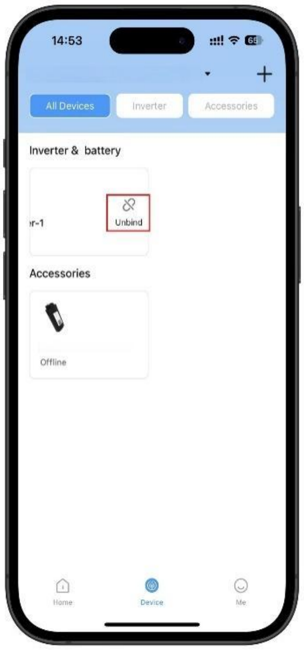
Step 3: Click **“**  **”** to remove the device from the selected Plant.



Operation B: Delete Devices from Device page

Step 1: Navigate to **Device** page and locate the device you wish to remove.

Step 2: Tap on the device, swipe left and then click the **“Unbind”** that appears.


14:53
All Devices
Inverter
Accessories
Inverter & battery
r-1
Unbind
Accessories
Offline
Home
Device
Me