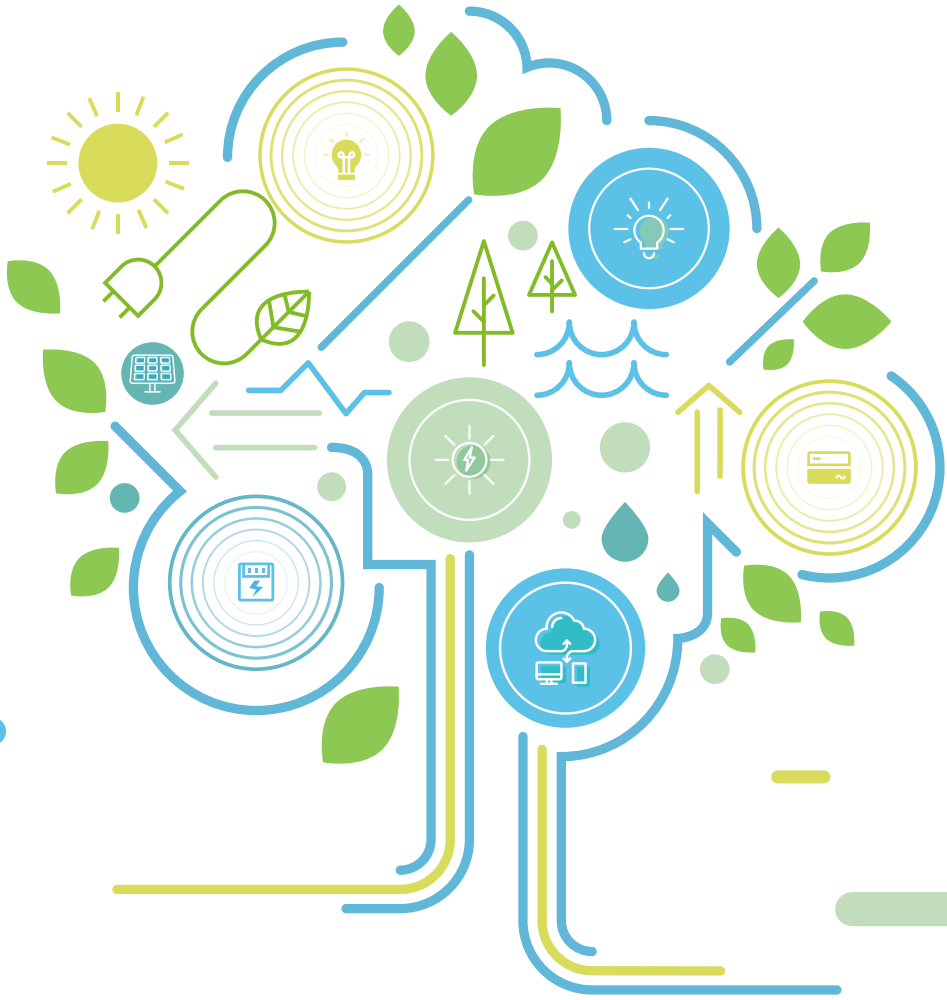
USER MANUAL

SOLARVOLT APP



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1. About This Manual

- This manual introduces general information and commonly used operations of the app.
- Before using the app, read the manual carefully and set the parameters under the guidance of professionals according to local regulations.
- This manual is intended for end users and installers.
- The operators has to be familiar with the product and local standards.
- The illustration in this manual is for reference only.
- This manual is subject to update without notice.

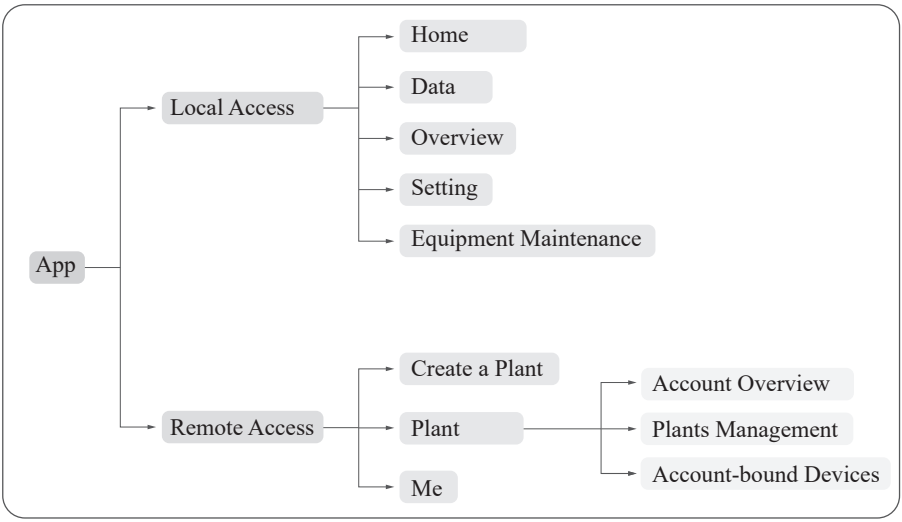
2. Introduction

2.1 App Architecture

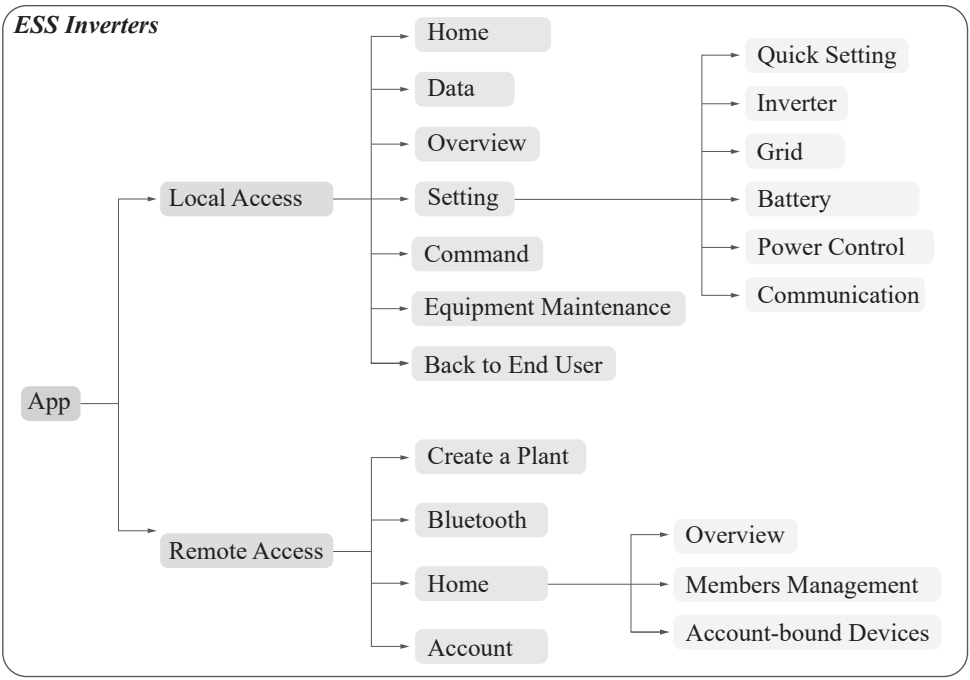
The app supports "Local Access" and "Remote Access".

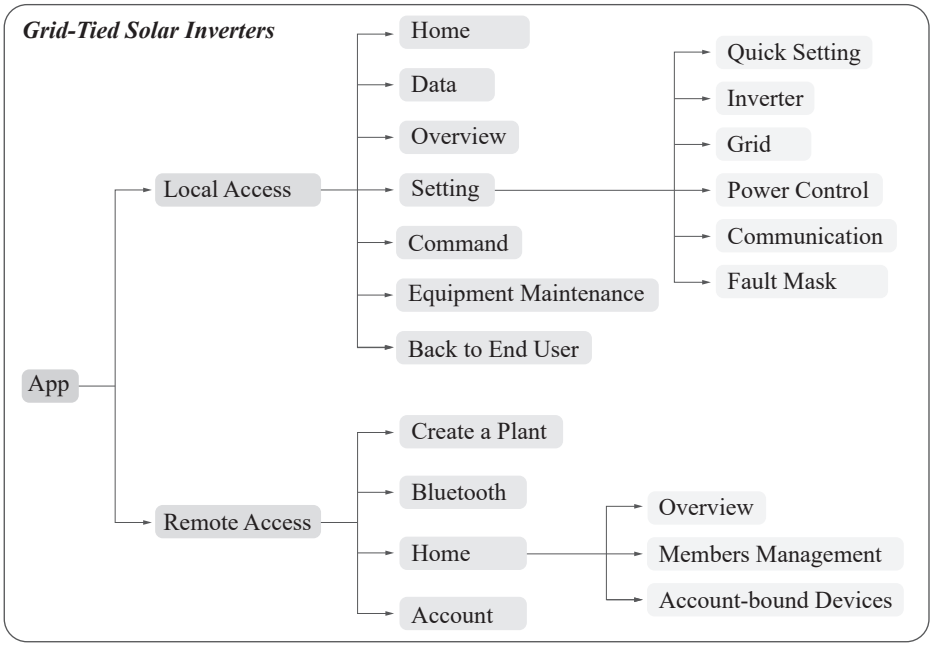
- Local Access: The app reads data from inverter through Bluetooth connection with Modbus protocol to display and configure inverter parameters.
- Remote Access: The app reads data from cloud server through API and display inverter parameters.

For End User



For Installer





2.2 Downloading and Installing the App

Download the APP by either of the following ways:

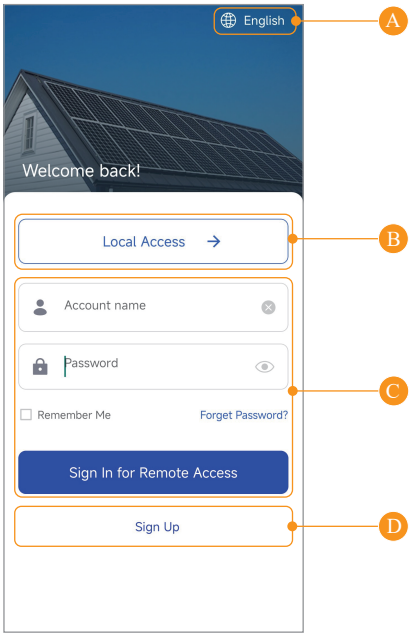
- Scan the QR code on the inverter to download and install the app.

- Download and install the app from the App Store or Google Play.

Note:

During the installation of the app, ensure you grant all requested permissions, including access to the device's location, by approving all prompts that appear in the pop-up windows.

2.3 Access Page



Number	Description
A	Switch language.
B	Local Access
C	• Enter account name and password, tap ***Sign In for Remote Access*** to manage your remote account. • Tick ***Remember me*** and you don't have to re-type your information on the next visit. • Tap ***Forget Password?*** to change password.
D	Tap ***Sign Up*** to register a remote account.

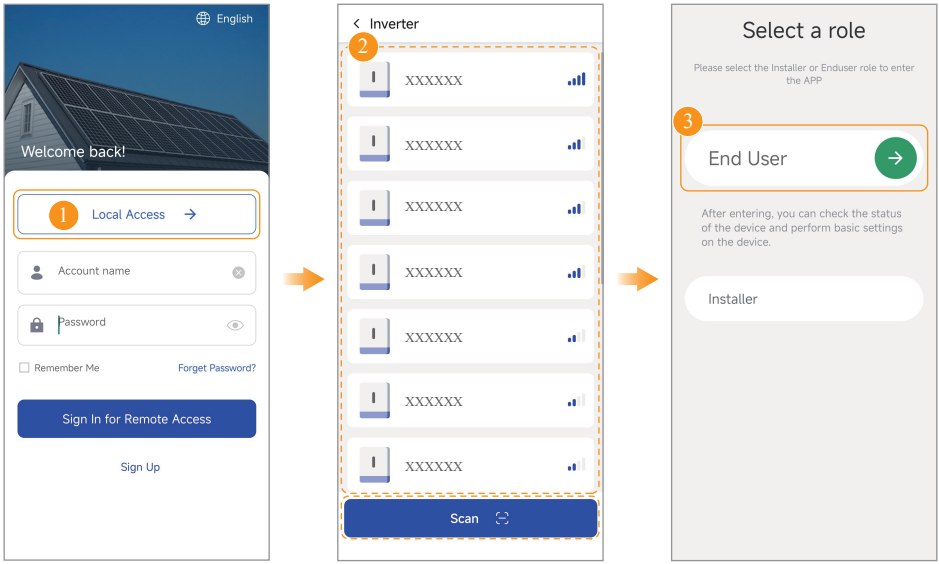
3. End User Local Access

Step 1: Power on the inverter and enable the Bluetooth on your phone.

Step 2: Open the app and tap ***Local Access***. (See operation 1 in figures below.)

Step 3: Select your inverter from the list or scan the SN bar code on the inverter. (See operation 2 in figures below.)

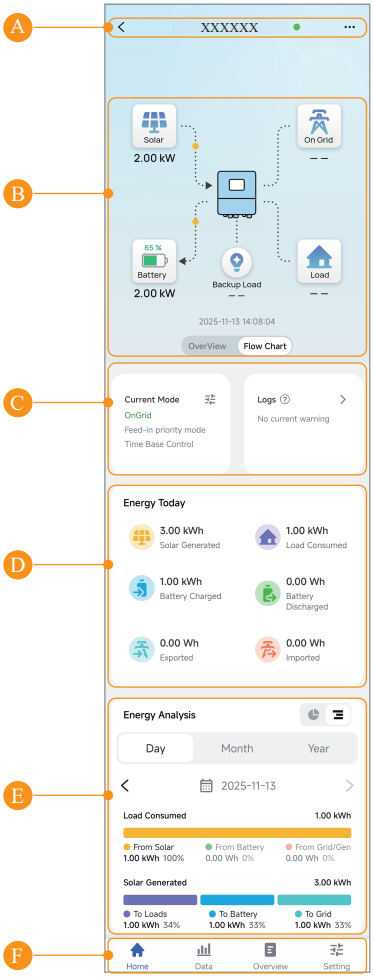
Step 4: Tap ***End User*** to enter the ***Home*** page. (See operation 3 in figures below.)



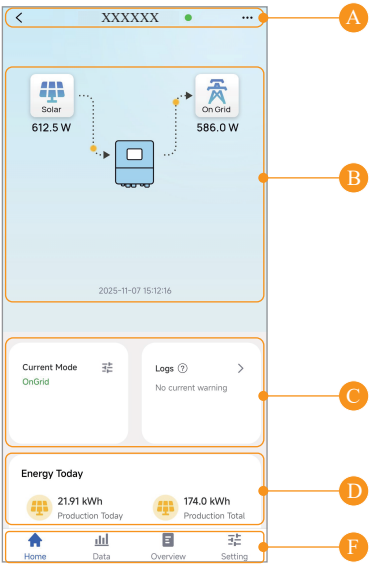
3.1 Home

The ***Home*** displays the basic information of the inverter.

For ESS Inverters



For Grid-Tied Solar Inverters



Number	Description
A	• Tap < to return to the previous page. • The serial number and status of the inverter: ● Normal; ● Faulty; ● Standby; ● Offline. • Tap ••• to enter ***Equipment Maintenance*** page.
B	This area displays energy flow of each parts in the system. Tap the icons for inverter, solar panel, grid, etc. to view the basic information about the inverter, solar panels, grid, and so on.
C	• This area shows the current mode and current alarms of the inverter. • Tap ⚙ to enter inverter page for related settings. • Tap > to view current alarms and historical alarms.
D	This part displays today's solar power generation, load consumption, battery charging and discharging capacity, as well as grid output and input.
E	• This part shows energy analysis of load consumption and solar power generation. • Tap ◔ to see pie chart.
F	Bottom navigation bar.

3.2 Data

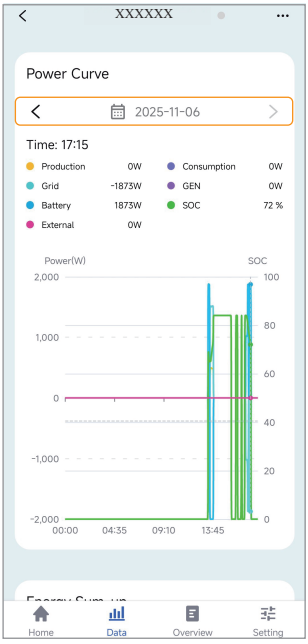
For ESS inverters, you can examine the graphical representation of energy generation or consumption for your home, solar panels, battery and the grid over various timeframes such as daily, monthly or yearly on this page.

For grid-tied solar inverters, you can examine the graphical representation of energy generation of solar panels over various timeframes such as daily, monthly or yearly on this page.

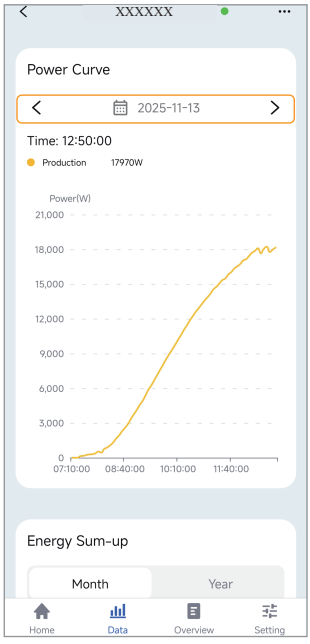
You can tap on any point of the graph to obtain the energy value for that specific time and tap the dot icon to hide the curve. Please note that the data curves provided in the illustrations are for example purposes only.

- **Query Daily Data**

For ESS Inverters



For Grid-Tied Solar Inverters

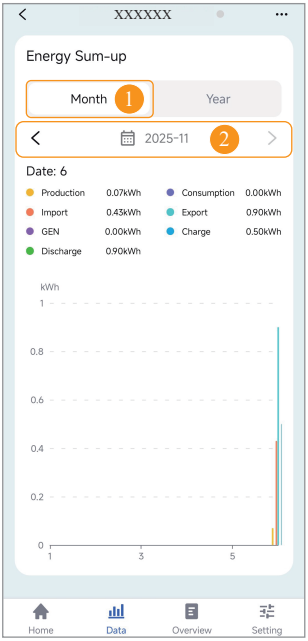


Icon	Description
Production	PV generation power
Consumption	Load consumption power
Grid	Grid power
GEN	GEN power
Battery	Charging and discharging power of battery
SOC	SOC of battery
External	AC coupling power (grid port)

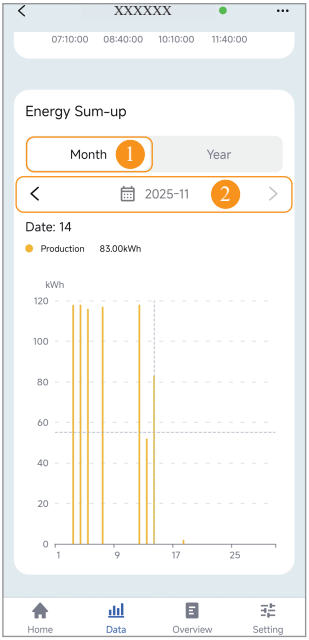
- **Query Monthly Data**

  Scroll down the ***Data*** page to view monthly data.

For ESS Inverters



For Grid-Tied Solar Inverters

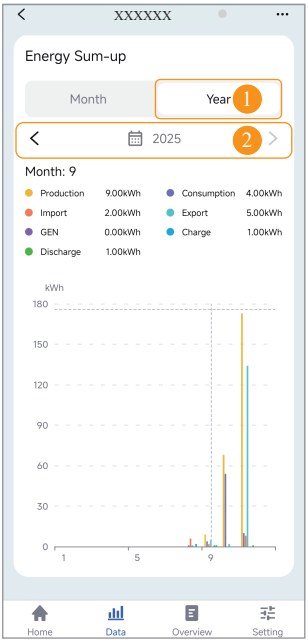


Icon	Description
Production	PV generation capacity
Consumption	Load consumption capacity
Import	Grid capacity
Export	Feed-in grid capacity
GEN	GEN capacity
Charge	Battery charge capacity
Discharge	Battery discharge capacity

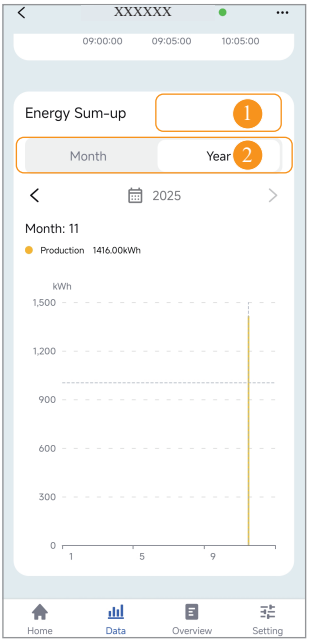
- **Query Yearly Data**

  Scroll down the ***Data*** page and tap the ***Year*** to view yearly data.

For ESS Inverters



For Grid-Tied Solar Inverters



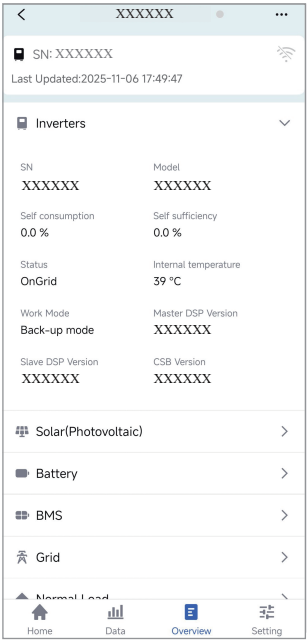
Icon	Description
Production	PV generation capacity
Consumption	Load consumption capacity
Import	Grid capacity
Export	Feed-in grid capacity
GEN	GEN capacity
Charge	Battery charge capacity
Discharge	Battery discharge capacity

3.3 Overview

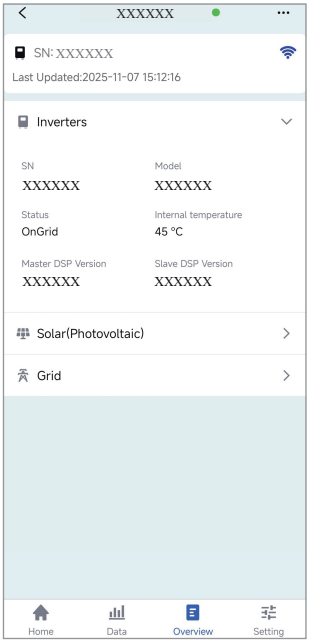
For ESS inverters, you can view the basic information about the inverter, solar panels, battery, BMS, grid, backup load, normal load and so on.

For grid-tied solar inverters, you can view the basic information ablout the inverter, solar panels, grid and so on.

For ESS Inverters



For Grid-Tied Solar Inverters

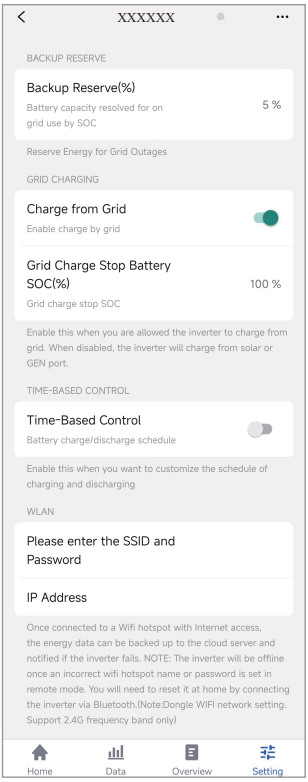


3.4 Settings

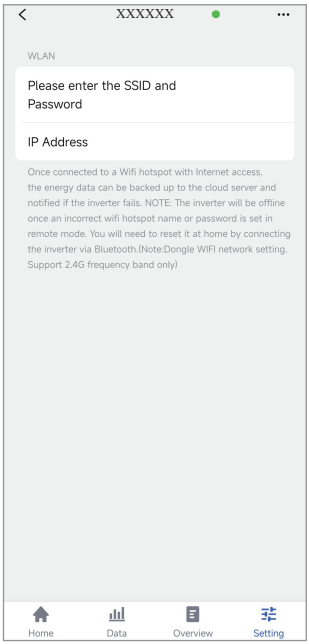
For ESS inverters, you can configure some basic parameters including backup reserve, grid charging, time-based control and WLAN on this page.

For grid-tied solar inverters, you can configure WLAN on this page.

For ESS Inverters



For Grid-Tied Solar Inverters



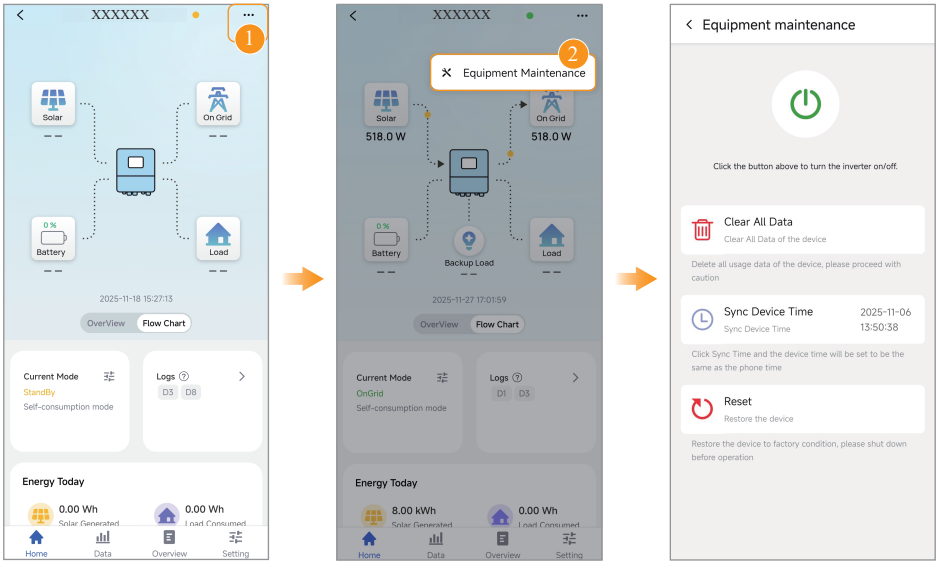
3.5 Equipment Maintenance

Tap the '... ' icon at the upper right corner of the bottom navigation bar, and then tap the ***Equipment Maintenance*** to enter the page.

On this page, you can turn on/off the inverter, clear all data, sync device time and restore the device to factory condition.

NOTICE

- **Turning the inverter on/off may cause the inverter output to disconnect.**



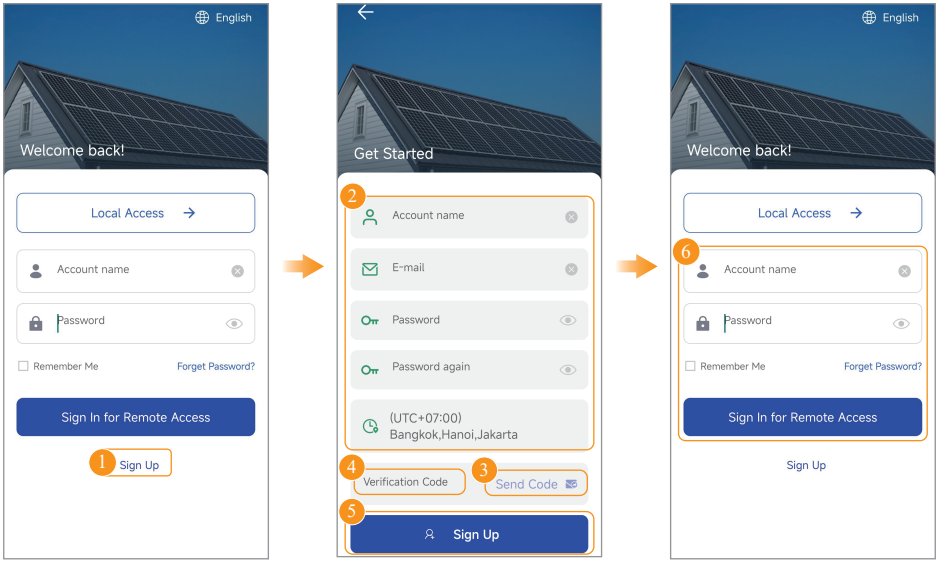
4. End User Remote Access

Step 1: Power on the inverter and open the app.

Step 2: Tap the ***Sign up***.

Step 3: Sign up for a new end user remote account.
(See operation 1-5 in figures below. You can skip this step if you already have a remote account.)

Step 4: Enter your account name and password, then sign in for remote access.
(See operation 6 in figures below.)



4.1 Create a Plant and Binding Inverter

Note:

Before creating a plant, it is necessary to select Enduser role for local access to connect the Inverter to the Router:

(1) Power on the inverter and enable the Bluetooth on your phone.

(2) Open the app and tap ***Local Access***.

(3) Select your inverter from the list or scan the SN bar code on the inverter.

(4) Tap End User to enter the ***Home*** page.

(5) Tap the ***Setting***.

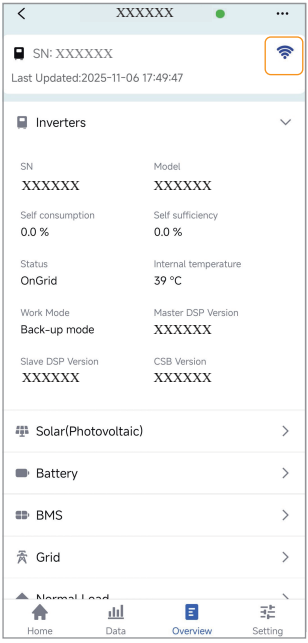
(6) Connect the inverter to the router by entering the Wi-Fi SSID and password.

For more details, refer to End User Local Access and Setting.

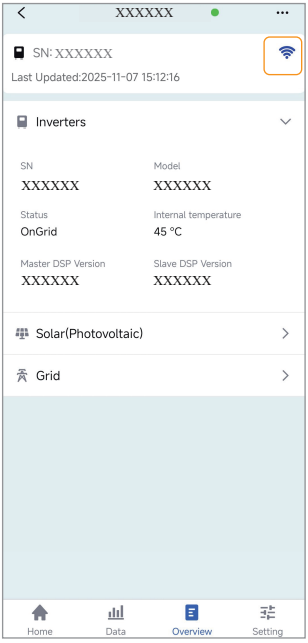
Suggestions for Wi-Fi Router

- It is recommended to use the Wi-Fi router within 15 m, and there is no obstacle between the inverter and the router.
- After end user local access, tap ***Overview*** to check the signal strength. Make sure that the Wi-Fi signal strength is more than three bars.
- When the signal strength is less than three bars, choose one of the following three ways to improve the signal:
  - Move the router closer to the inverter.
  - Adjust the height of the router to reduce obstacles.
  - Add a repeater to improve the signal strength.

For ESS Inverters



For Grid-Tied Solar Inverters

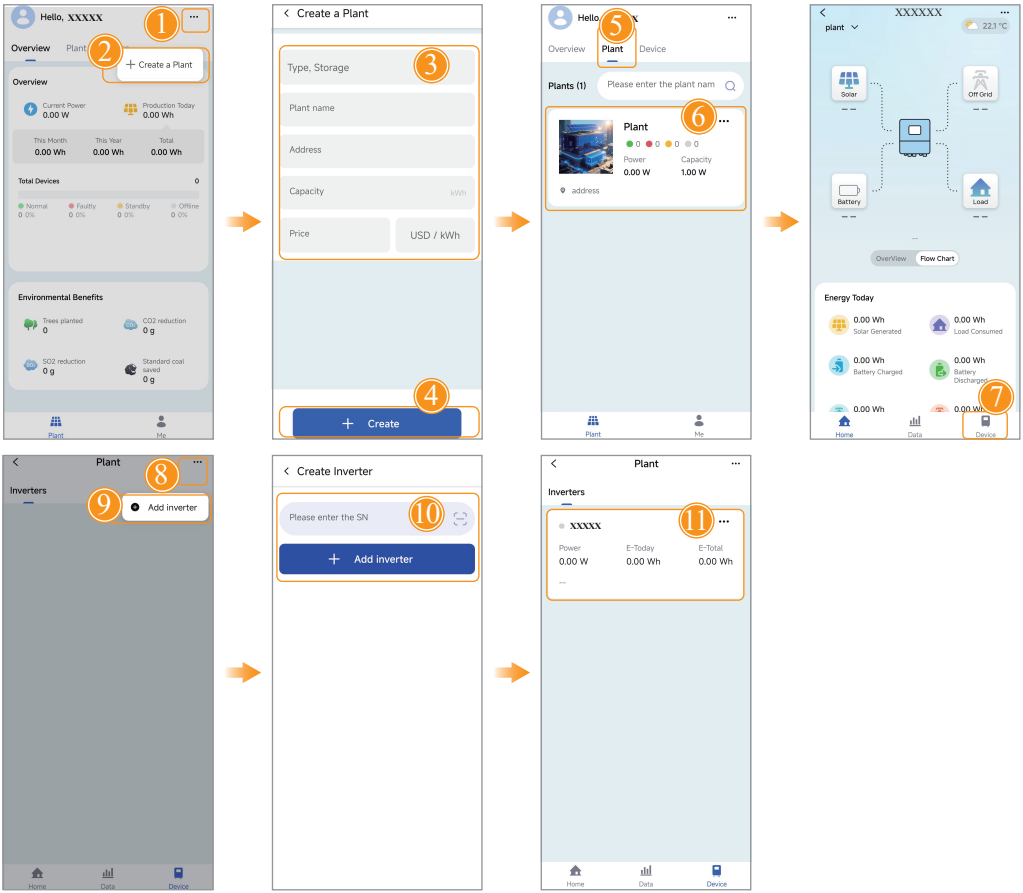


Setting steps for Create a Plant and Binding Inverter

Step 1: Tap "..." > ***Create a Plant*** on the ***Home*** page, then enter plant information to add plants to your account.

Step 2: Select your power station to add inverters and view inverter status.

For ESS Inverters



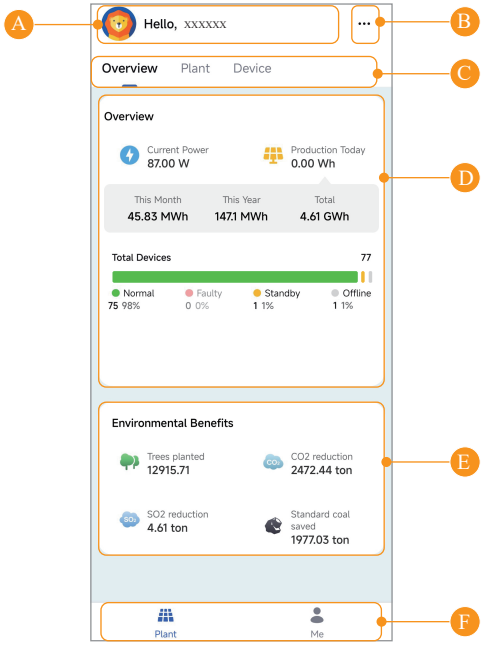
For Grid-Tied Solar Inverters



4.2 Plant

The ***Plant*** displays the basic information of the plants added in the account.

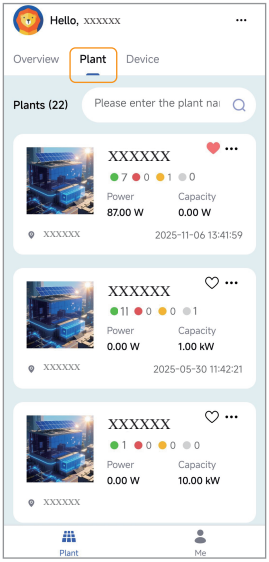
4.2.1 Account Overview



Number	Description
A	Tap the area to modify your account information and sign out.
B	Tap the '**...**' to create a plant.
C	Tap the corresponding title bar to display the overview, plant, or device items.
D	All plants added in the account: • Current power. • Today's, Month's, Year's and Total PV energy generation. • Number of Total devices and the status of the each device: ● Normal; ● Faulty; ● Standby; ● Offline
E	Environmental benefits.
F	Bottom navigation bar: ● Plant: Set/delete the Plant ● Me: Modify your account information and sign out.

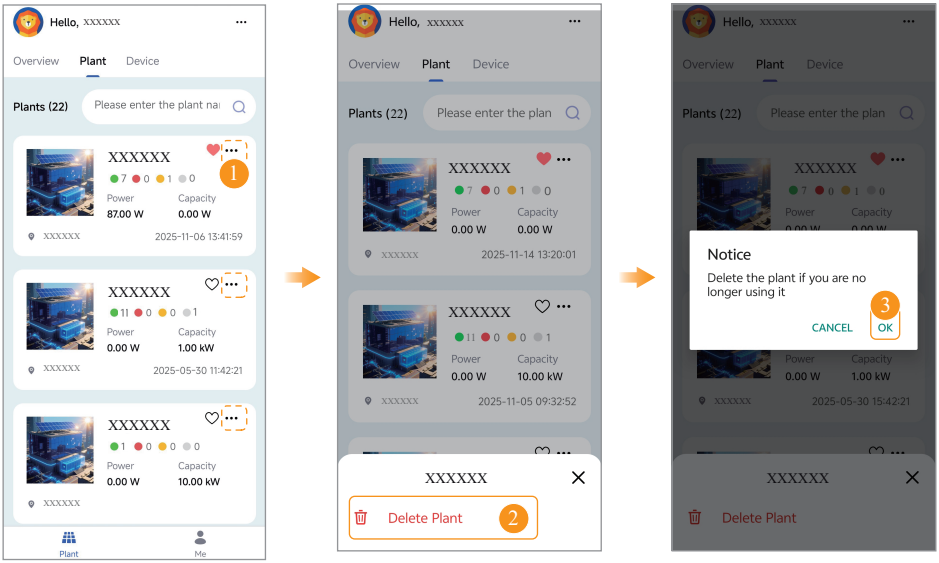
4.2.2 Plants Management

The ***Plant*** item displays the plants added in the account.



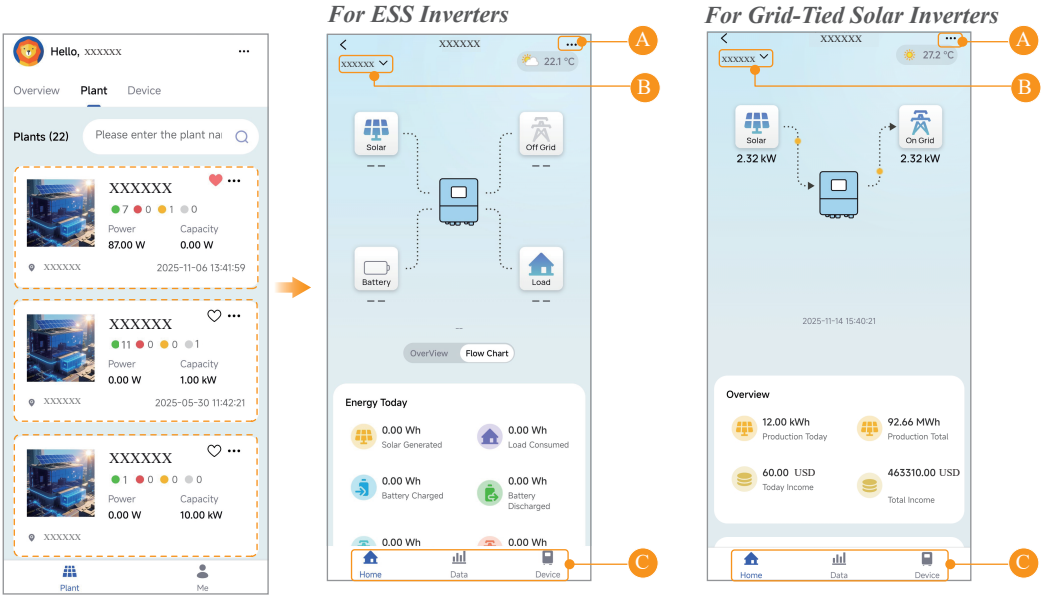
4.2.2.1 Delete the plant

You can delete the plant when it is no longer in use.



4.2.2.2 Plant of the Home Page

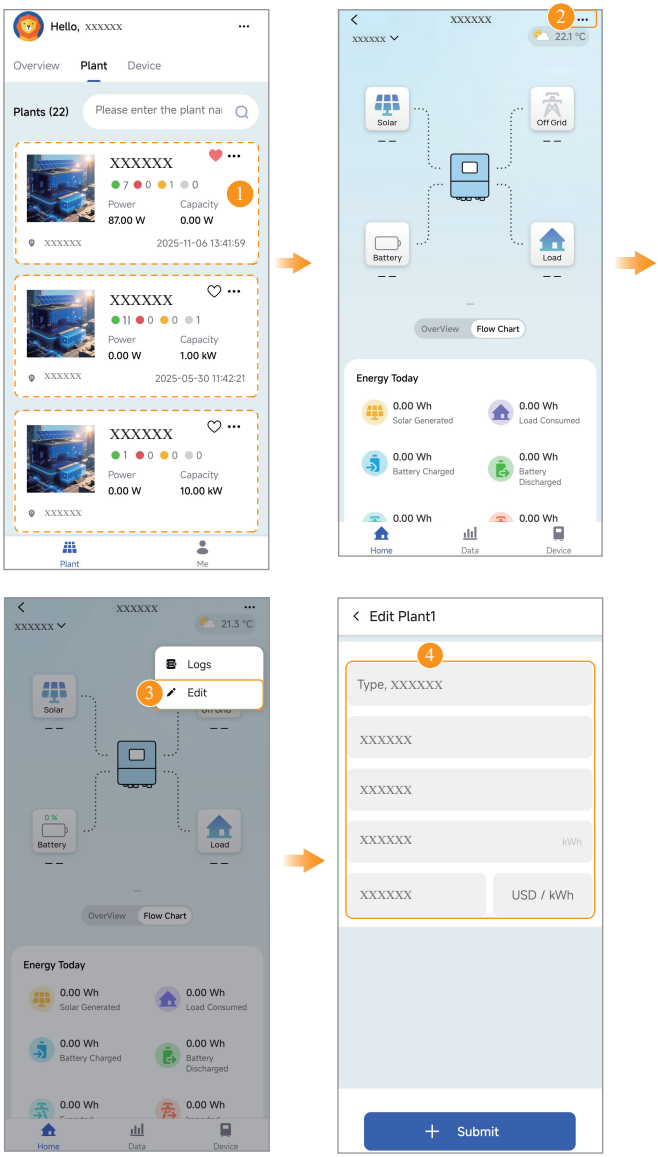
Select the plant ***Home*** page to display.



Number	Description
A	Tap the '...' to view the warning logs of the inverter or edit the basic information of the plant.
B	Tap the dropdown list to select another device.
C	Bottom navigation bar: ● Home: Set/edit the plant, energy today, energy analysis, environmental benefits ● Data: Graphical representation of energy generation or consumption. ● Device: View or configure information or parameters for the inverter, battery, grid, etc.

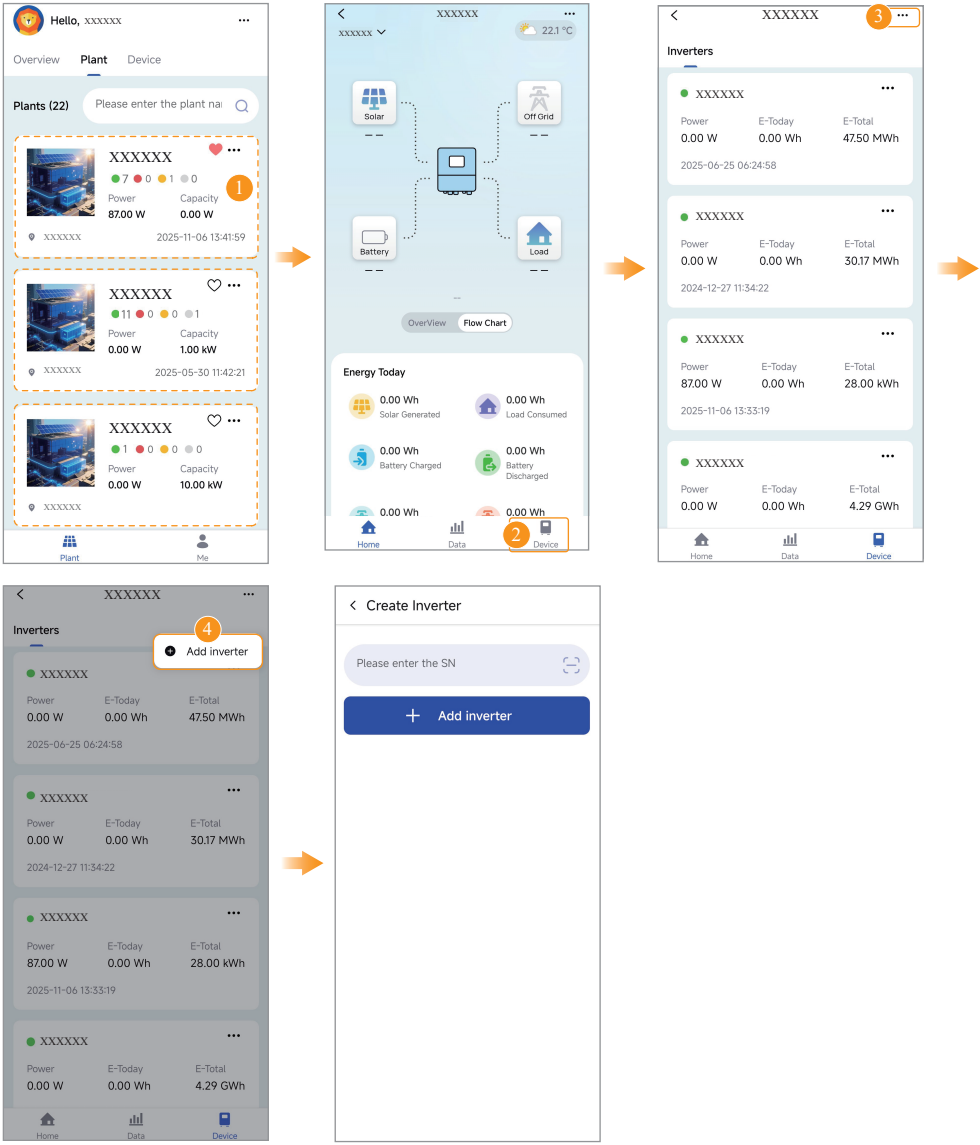
4.2.2.3 Edit the plant

On this page, you can edit the basic information of the plant.



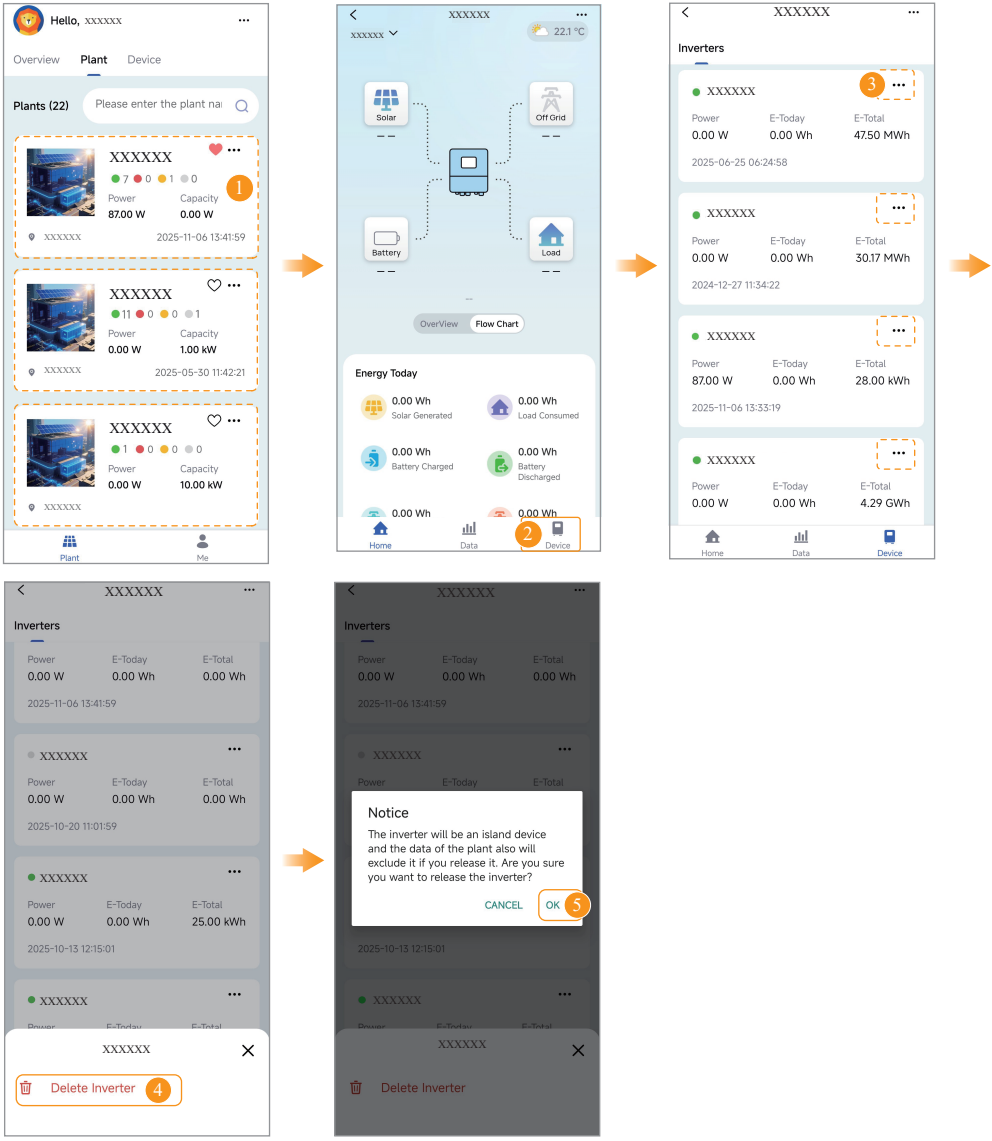
4.2.2.4 Add More Inverters in the plant

Enter the SN or scan the SN bar code to add inverters to the plant.



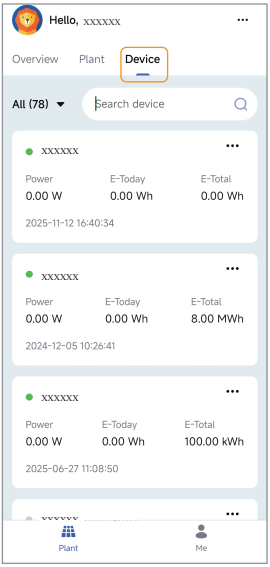
4.2.2.5 Delete the Inverters in the Plant

Remove the inverter bound to the currently selected the Plant.



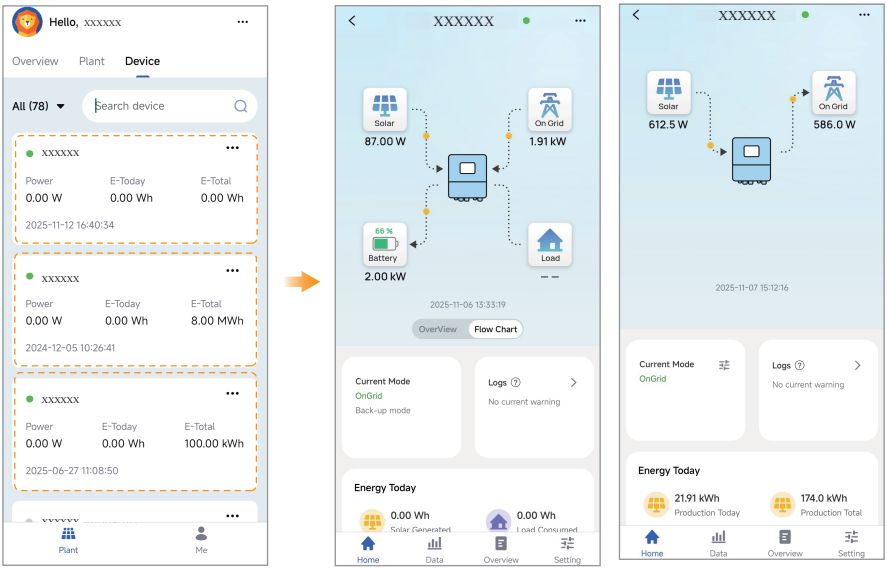
4.2.3 Account-bound Devices

The ***Device*** item displays the inverters added in the account.



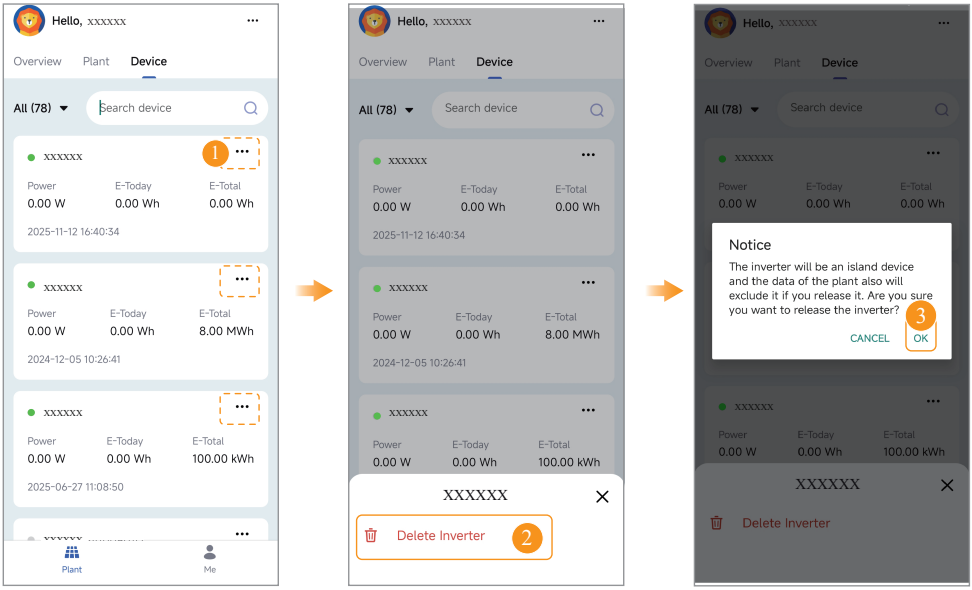
4.2.3.1 Home of the Device

Tap the serial number of the inverter to enter the inverter ***Home*** page, where you can view or configure information or parameters for the inverter, battery, grid, etc..For more details, refer to ***Chapter 3***.



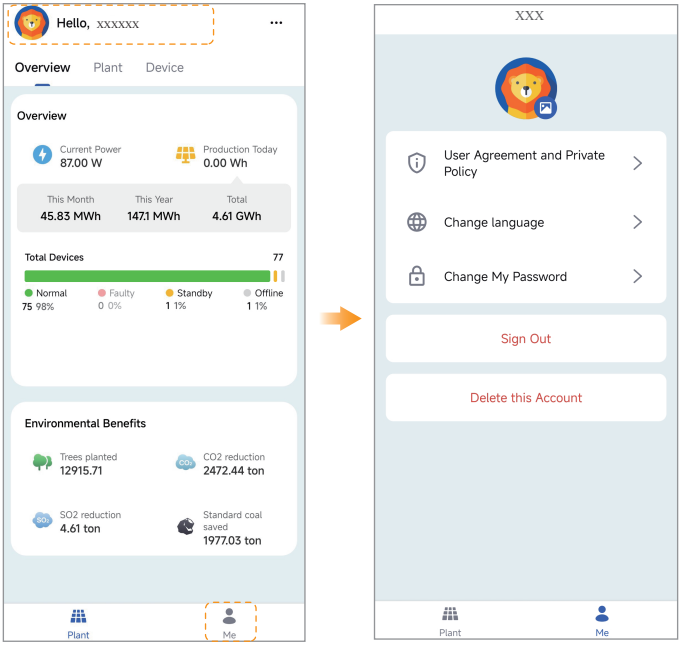
4.2.3.2 Delete the device in the Account

Remove the inverter bound to the current login account.



4.3 Me

On this page, you can modify your account information and sign out.



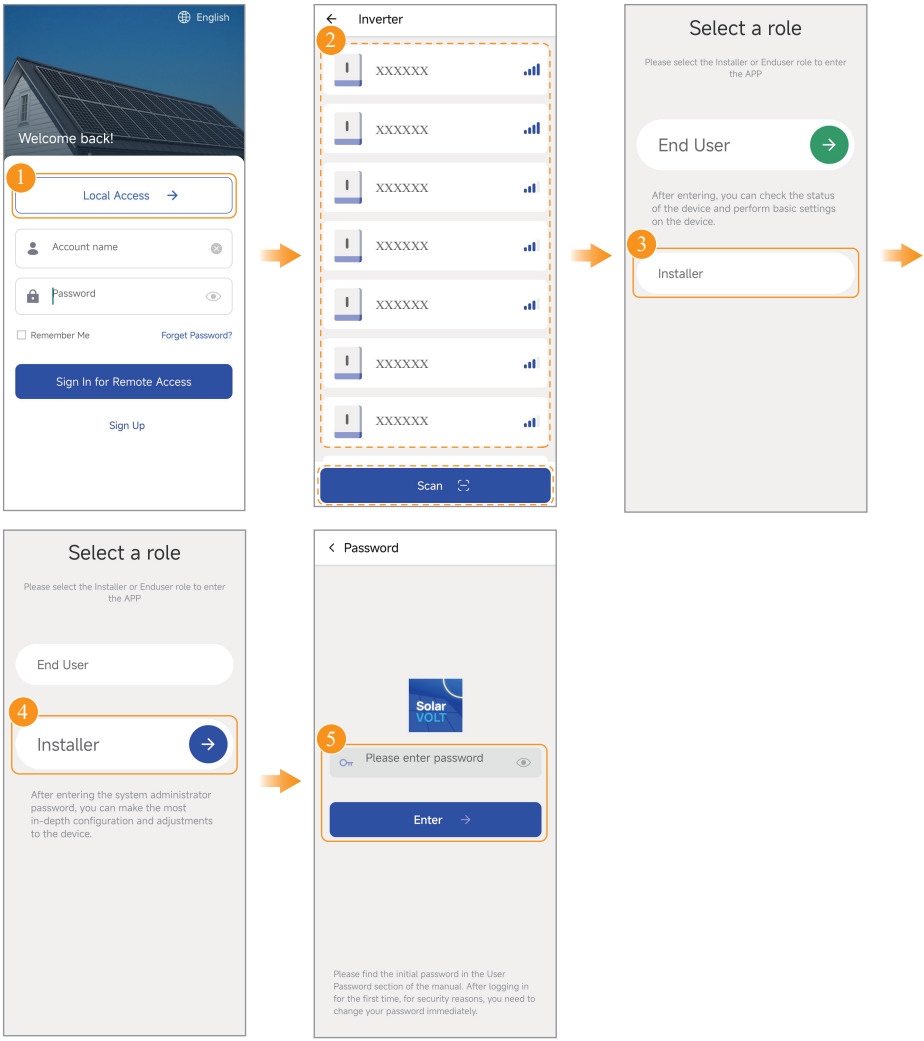
5. Installer Local Access

Step 1: Power on the inverter and enable the Bluetooth on your phone.

Step 2: Open the app and tap ***Local Access***. (See operation 1 in figures below.)

Step 3: Select your inverter from the list or scan the SN bar code on the inverter. (See operation 2 in figures below.)

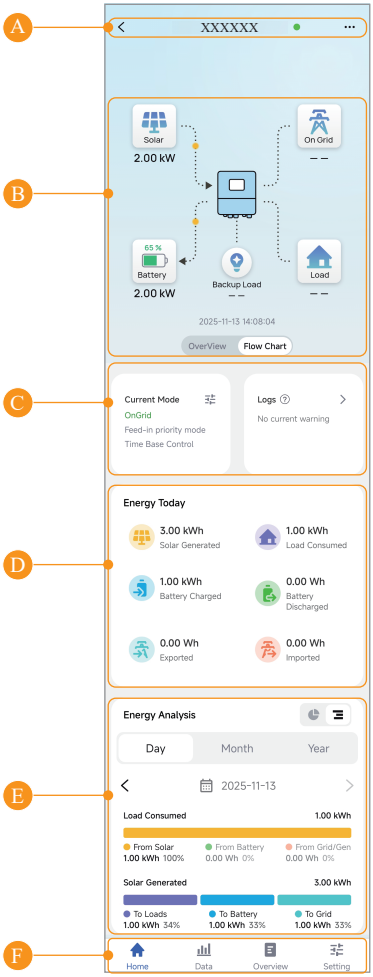
Step 4: Tap ***Installer*** twice and enter the password to enter the ***Home*** page. (See operation 3-5 in figures below.)



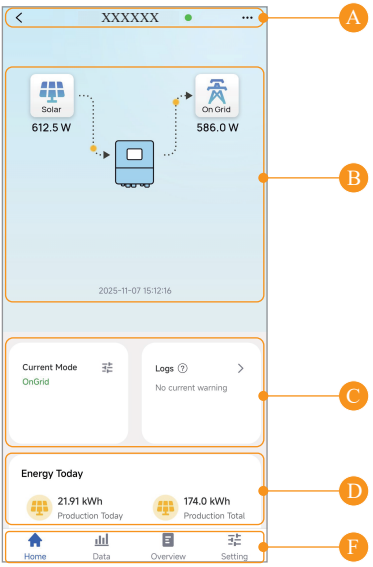
5.1 Home

The ***Home*** page displays the basic information of the inverter.

For ESS Inverters



For Grid-Tied Solar Inverters



Number	Description
A	• Tap < to return to the previous page. • The serial number and status of the inverter: ● Normal; ● Faulty; ● Standby; ● Offline. • Tap ••• to enter ***Equipment Maintenance*** page and others.
B	This area displays energy flow of each parts in the system. Tap the icons for inverter, solar panel, grid, etc. to view the basic information about the inverter, solar panels, grid, and so on.
C	• This area shows the current mode and current alarms of the inverter. • Tap ⚙ to enter inverter page for related settings. • Tap > to view current alarms and historical alarms.
D	This part displays today's solar power generation, load consumption, battery charging and discharging capacity, as well as grid output and input.
E	• This part shows energy analysis of load consumption and solar power generation. • Tap ◔ to see pie chart.
F	Bottom navigation bar.

5.2 Data

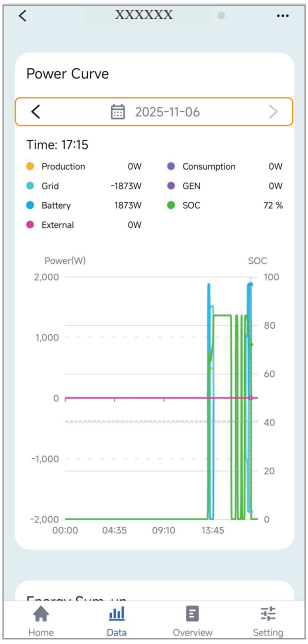
For ESS inverters, you can examine the graphical representation of energy generation or consumption for your home, solar panels, battery and the grid over various timeframes such as daily, monthly or yearly on this page.

For grid-tied solar inverters, you can examine the graphical representation of energy generation of solar panels over various timeframes such as daily, monthly or yearly on this page.

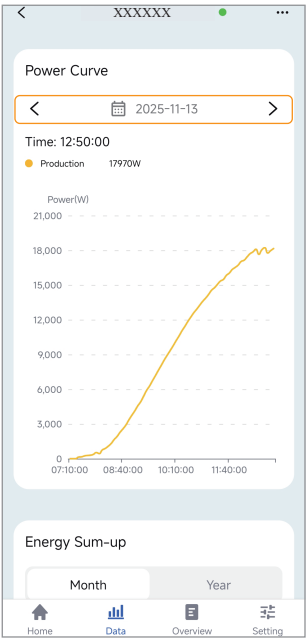
You can tap on any point of the graph to obtain the energy value for that specific time and tap the dot icon to hide the curve. Please note that the data curves provided in the illustrations are for example purposes only.

- **Query Daily Data**

For ESS Inverters



For Grid-Tied Solar Inverters

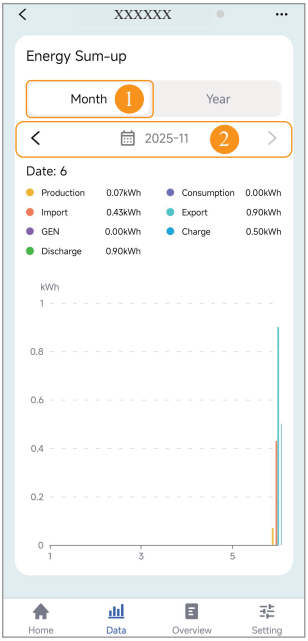


Icon	Description
Production	PV generation power
Consumption	Load consumption power
Grid	Grid power
GEN	GEN power
Battery	Charging and discharging power of battery
SOC	SOC of battery
External	AC coupling power (grid port)

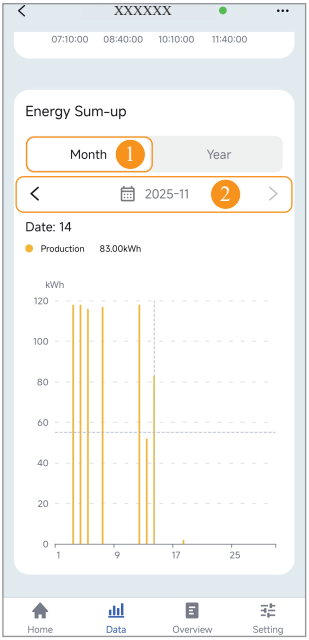
- **Query Monthly Data**

  Scroll down the ***Data*** page to view monthly data.

For ESS Inverters



For Grid-Tied Solar Inverters

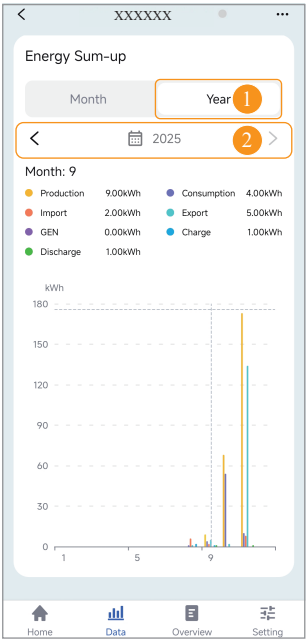


Icon	Description
Production	PV generation capacity
Consumption	Load consumption capacity
Import	Grid capacity
Export	Feed-in grid capacity
GEN	GEN capacity
Charge	Battery charge capacity
Discharge	Battery discharge capacity

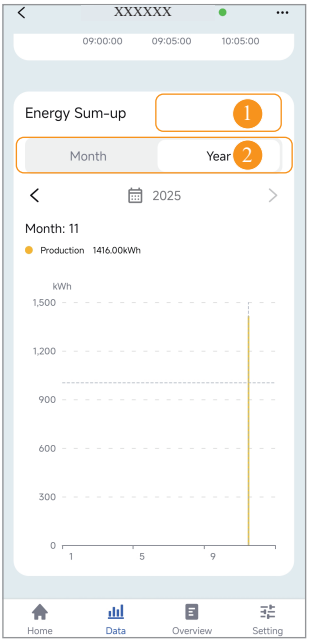
- **Query Yearly Data**

  Scroll down the ***Data*** page and tap the ***Year*** to view yearly data.

For ESS Inverters



For Grid-Tied Solar Inverters



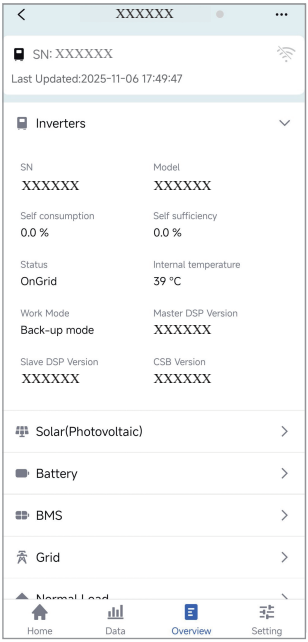
Icon	Description
Production	PV generation capacity
Consumption	Load consumption capacity
Import	Grid capacity
Export	Feed-in grid capacity
GEN	GEN capacity
Charge	Battery charge capacity
Discharge	Battery discharge capacity

5.3 Overview

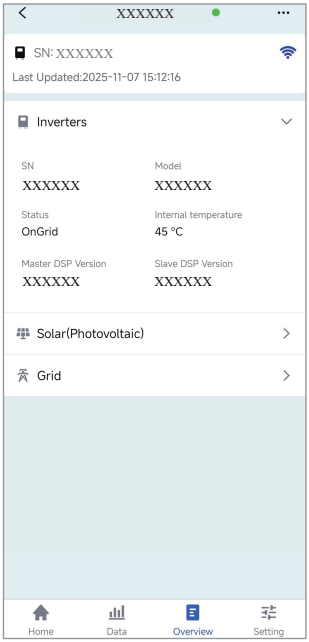
For ESS inverters, you can view the basic information about the inverter, solar panels, battery, BMS, grid, backup load, normal load and so on.

For grid-tied solar inverters, you can view the basic information ablout the inverter, solar panels, grid and so on.

For ESS Inverters



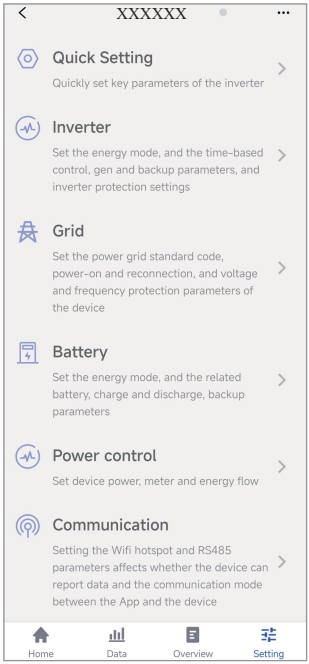
For Grid-Tied Solar Inverters



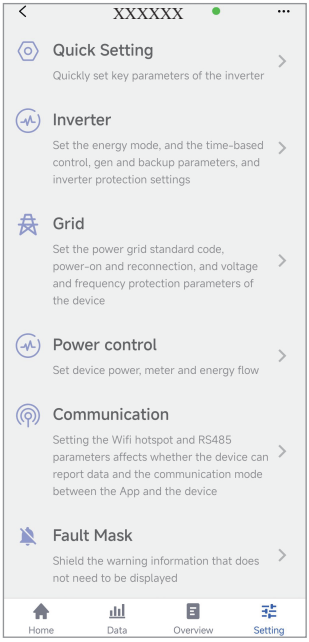
5.4 Settings

On this page, you can adjust settings to optimize performance based on your specific requirements.

For ESS Inverters



For Grid-Tied Solar Inverters



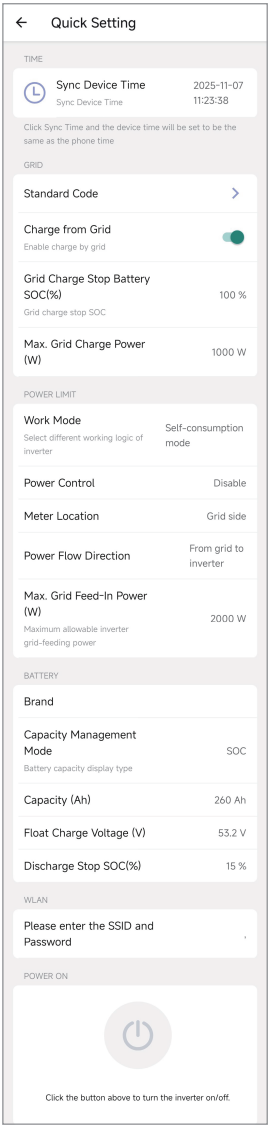
5.4.1 Quick Setting

On this page, you can quickly set up the inverter and configure important parameters so that the inverter can work quickly and normally.

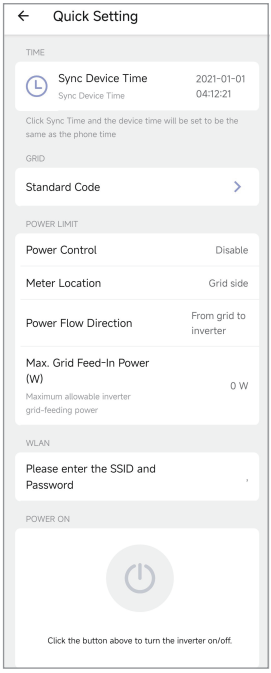
NOTICE

- **Turning the inverter on/off may cause the inverter output to disconnect.**

For ESS Inverters



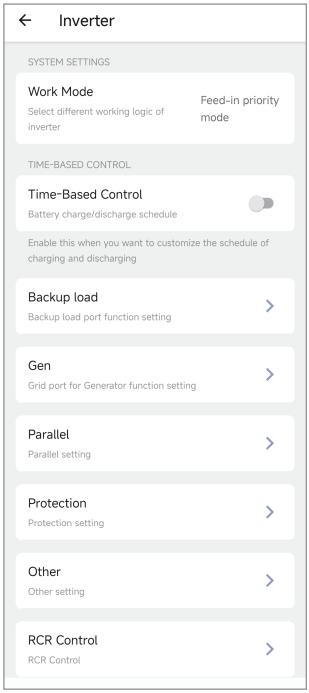
For Grid-Tied Solar Inverters



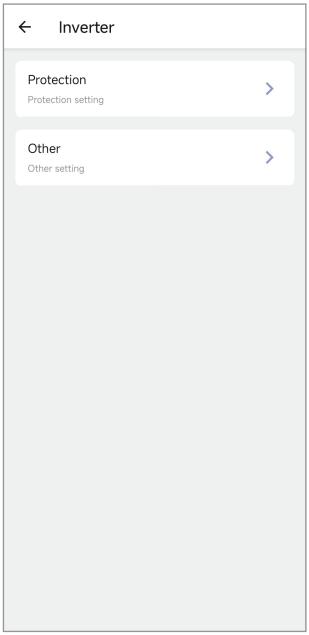
5.4.2 Inverter

On this page, you can configure relevant parameters of the inverter.

For ESS Inverters

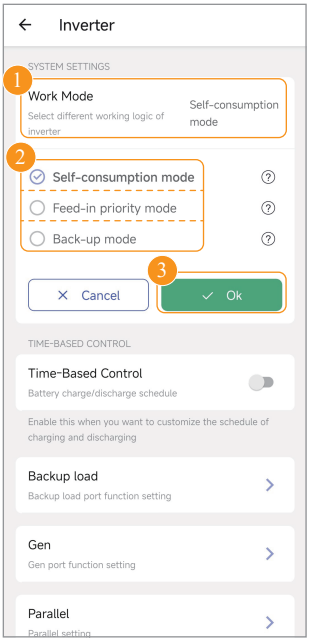


For Grid-Tied Solar Inverters



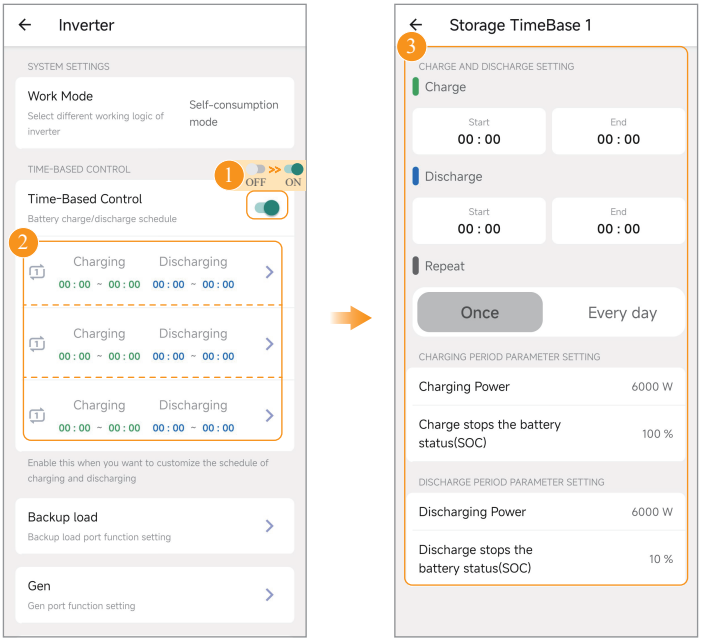
5.4.2.1 Work Mode

On this page, you can select the work mode of the inverter.



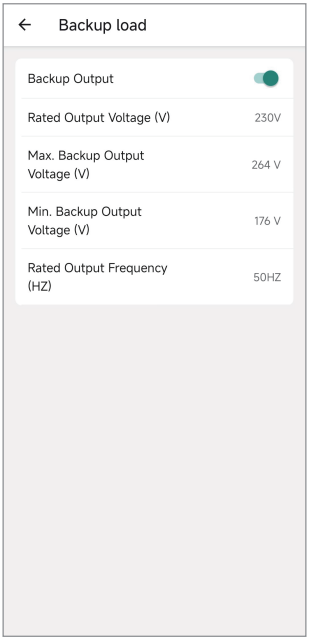
5.4.2.2 Time-based Control

On this page, you can control the charging time and the discharging time.



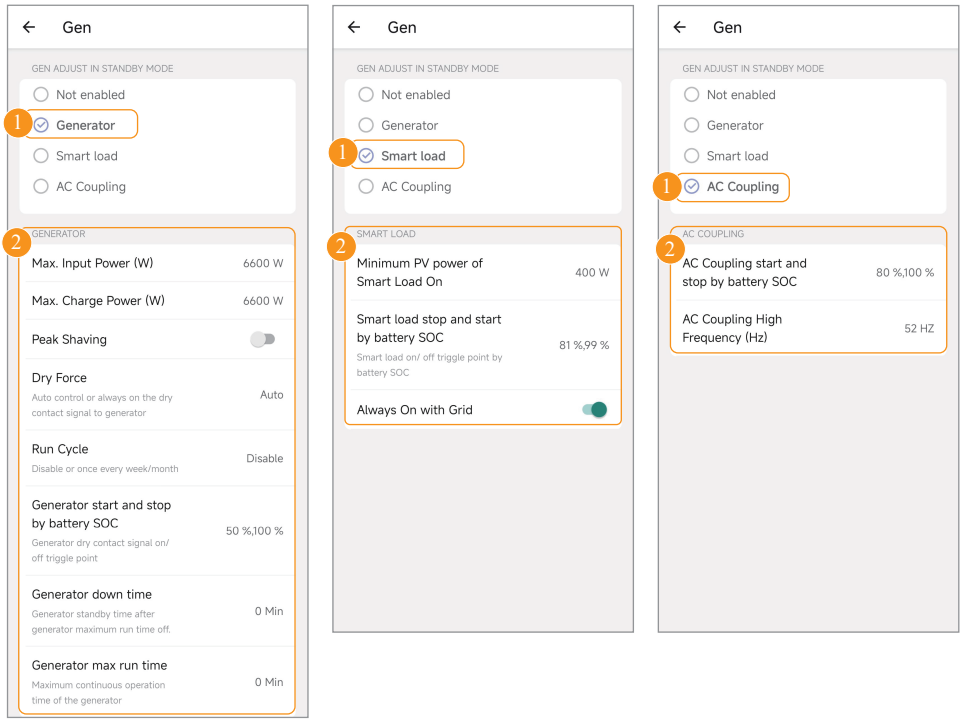
5.4.2.3 Backup Load

On this page, you can configure relevant parameters of the backup load port.



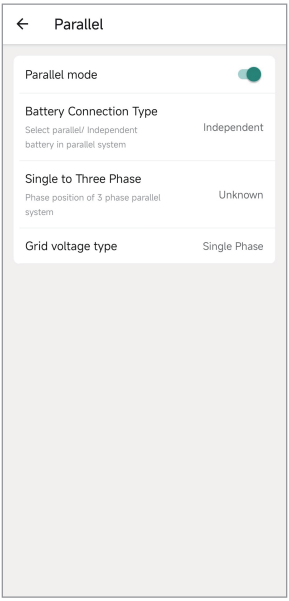
5.4.2.4 Gen

On this page, you can select Generator, Smart load or AC coupling, and then configure relevant parameters.



5.4.2.5 Parallel

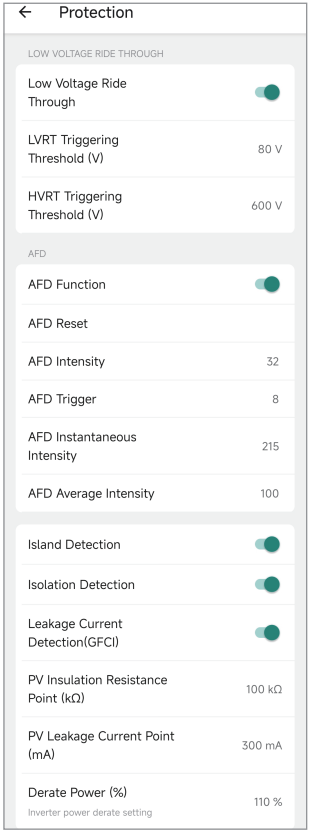
On this page, you can enable parallel mode and perform relevant settings.



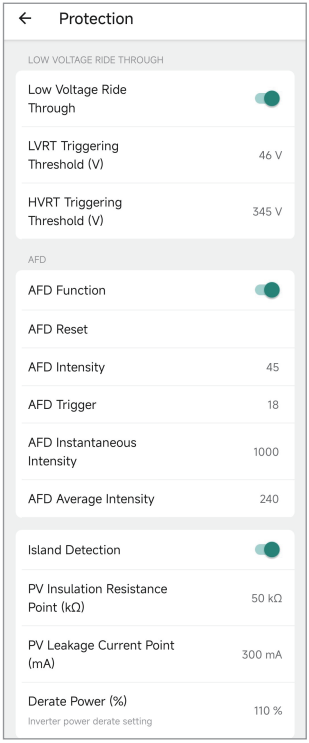
5.4.2.6 Protection

On this page, you can configure relevant parameters to protect your inverter.

For ESS Inverters



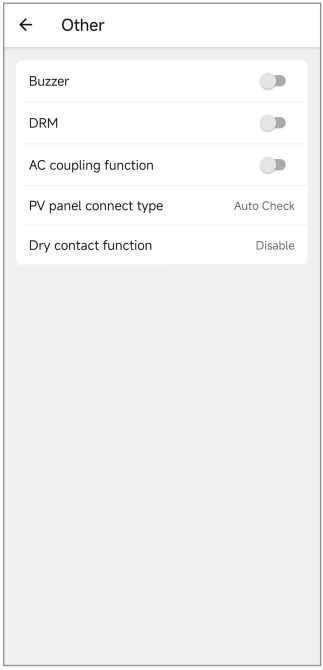
For Grid-Tied Solar Inverters



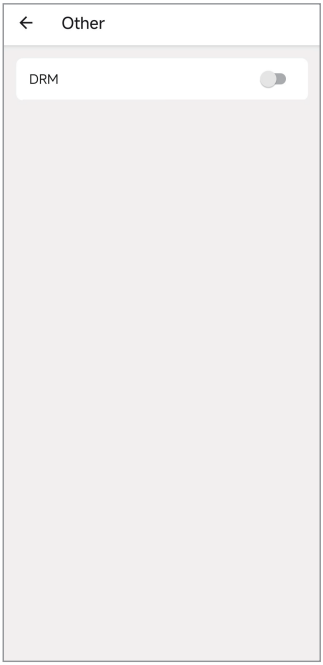
5.4.2.7 Other

On this page, you can perform relevant settings to ensure optimal operation of the inverter.

For ESS Inverters



For Grid-Tied Solar Inverters



5.4.2.8 RCR Control

In this page, you are allow to enable RCR (Ripple Control Receiver) function and configure relevant parameters.

In ***Inverter*** page, click ***RCR Control*** to enter RCR control page.

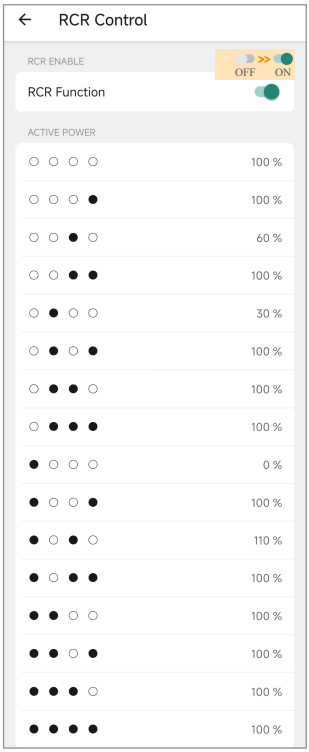
When the RCR function is enabled, the inverter output power will be limited based on the RCR signal and the set value. You can modify the Active Power based on actual output load and needs.

When the RCR function is disabled, the inverter will output the maximum power.

Note:

- After the RCR function is enabled, the modified setting value under the current signal takes effect immediately.
- This function is only applicable when connected to certain models.

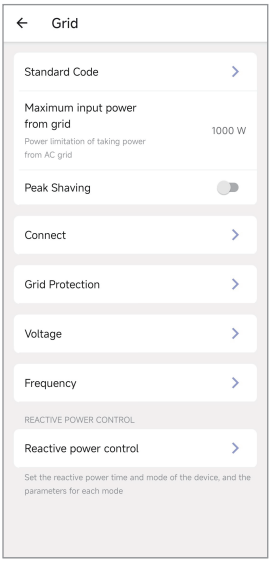
Only For ESS Inverters



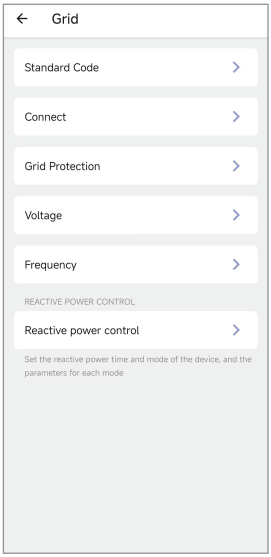
5.4.3 Grid

On this page, you can configure relevant parameters of the grid.

For ESS Inverters



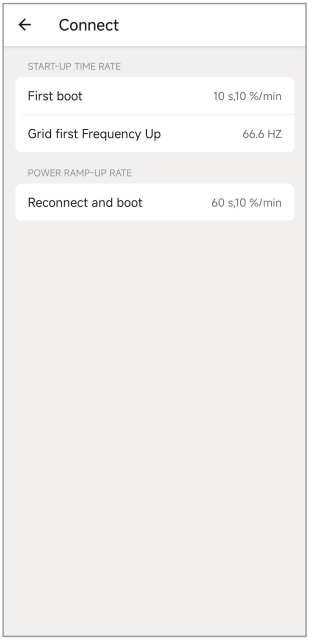
For Grid-Tied Solar Inverters



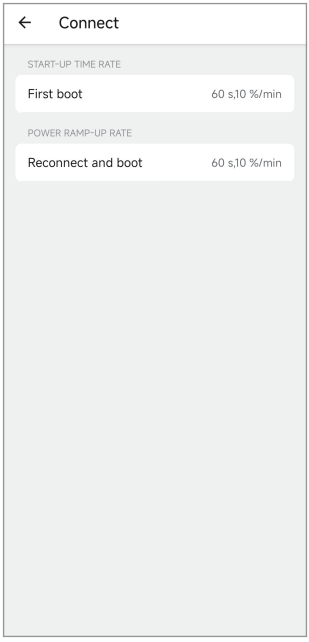
5.4.3.1 Connect

On this page, you can configure relevant parameters to ensure the connection of the grid.

For ESS Inverters



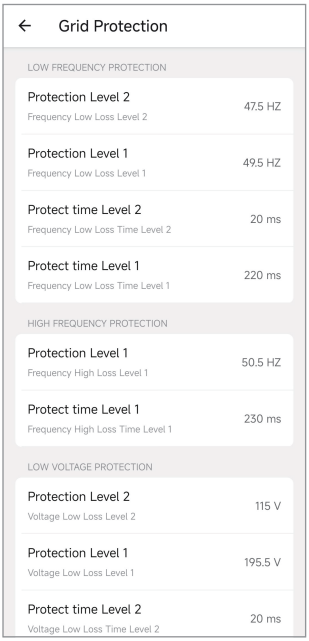
For Grid-Tied Solar Inverters



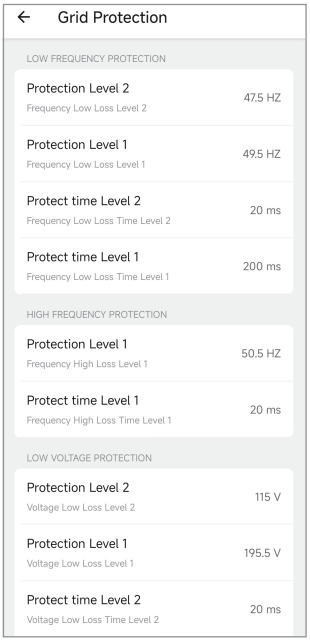
5.4.3.2 Grid Protection

On this page, you can configure relevant parameters to protect the grid.

For ESS Inverters



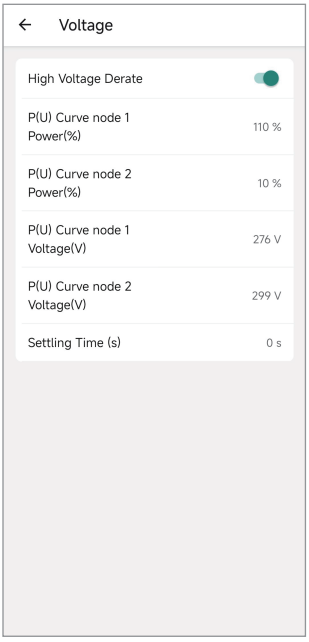
For Grid-Tied Solar Inverters



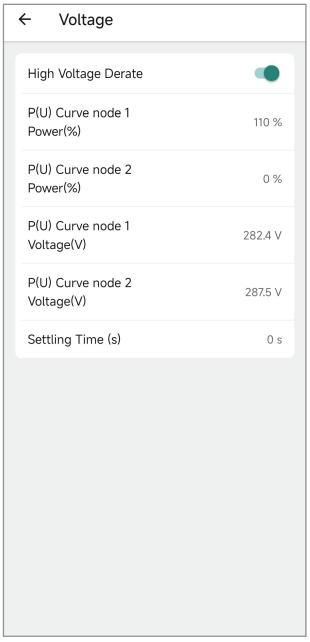
5.4.3.3 Voltage

On this page, you can enable High Voltage Derate and adjust curve parameters.

For ESS Inverters



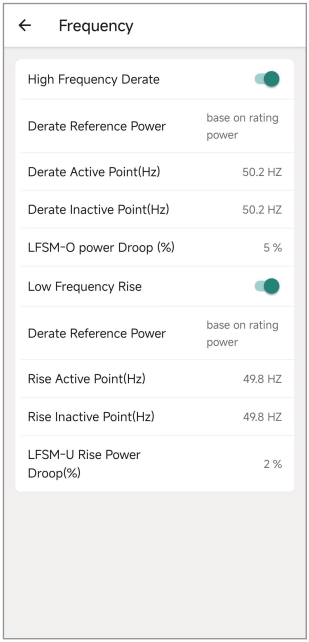
For Grid-Tied Solar Inverters



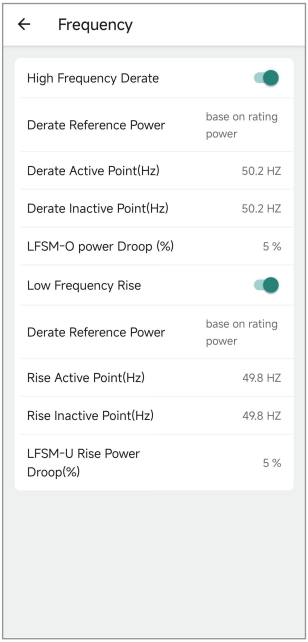
5.4.3.4 Frequency

On this page, you can enable High Frequency Derate or Low Frequency Rise, and then configure relevant parameters.

For ESS Inverters



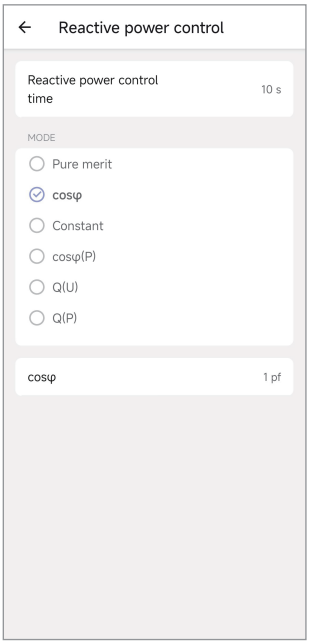
For Grid-Tied Solar Inverters



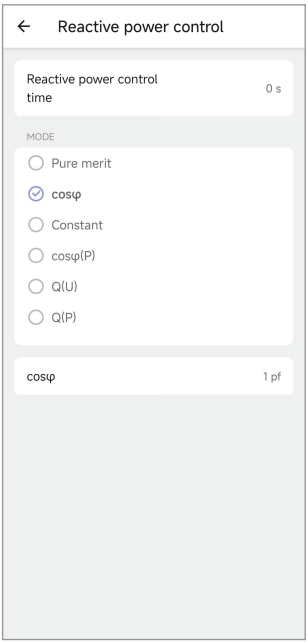
5.4.3.5 Reactive Power Control

On this page, you can select the mode of reactive power control and configure relevant parameters.

For ESS Inverters



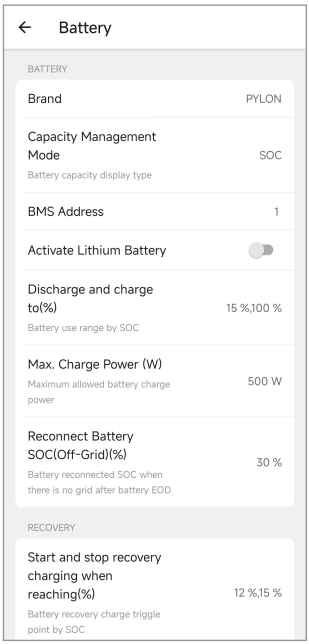
For Grid-Tied Solar Inverters



5.4.4 Battery

On this page, you can configure relevant parameters of the battery.

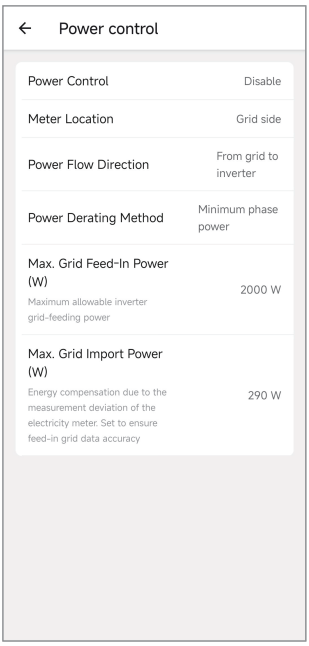
Only for ESS Inverters



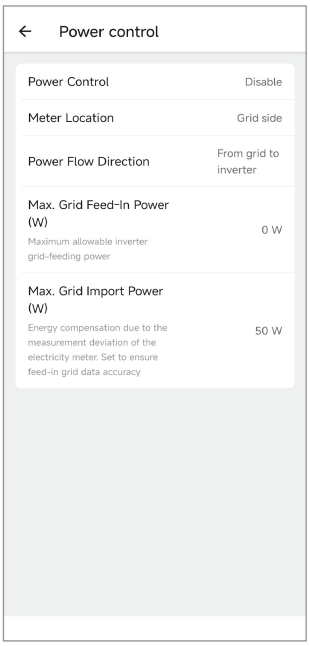
5.4.5 Power Control

On this page, you can configure relevant parameters of power control.

For ESS Inverters



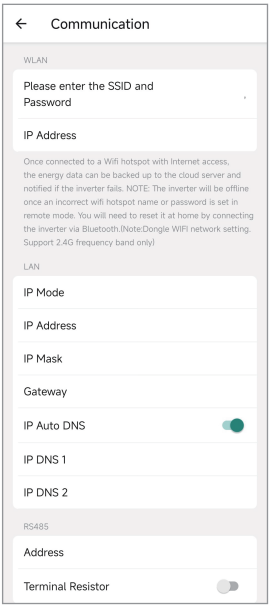
For Grid-Tied Solar Inverters



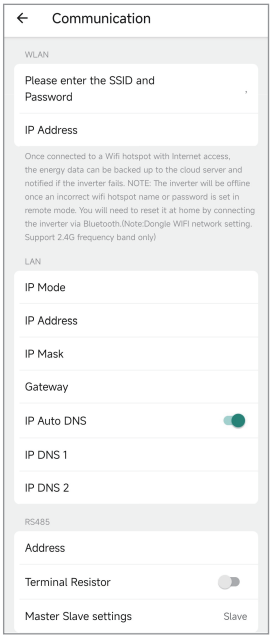
5.4.6 Communication

On this page, you can configure relevant parameters of the communication.

For ESS Inverters



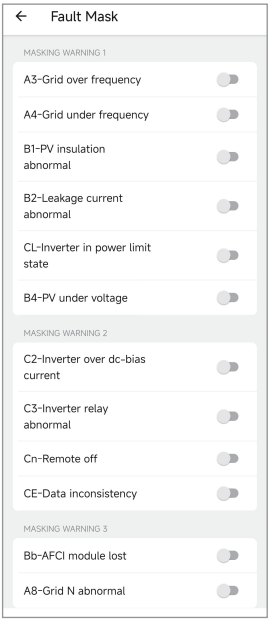
For Grid-Tied Solar Inverters



5.4.7 Fault Mask

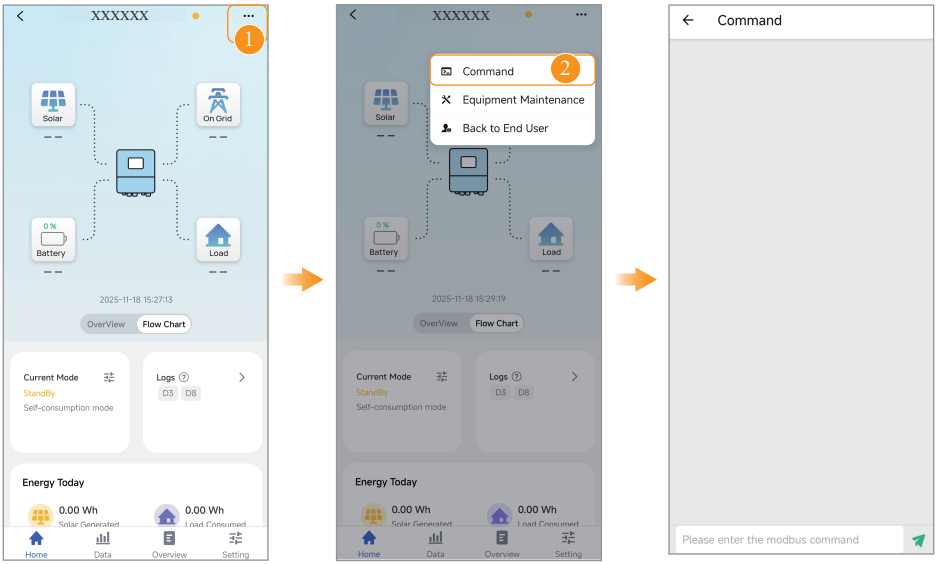
On this page, you can mask specific warnings based on your needs.

Only for Grid-Tied Solar Inverters



5.5 Command

On this page, you can send modbus commands to perform settings and parameter configurations.



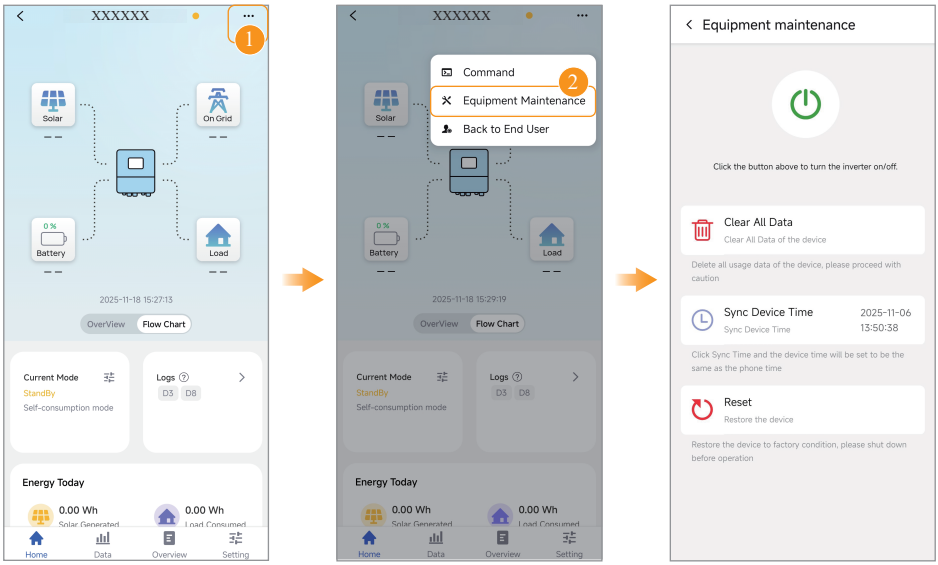
5.6 Equipment Maintenance

Tap the '...' icon at the upper right corner of the bottom navigation bar, and then tap the ***Equipment Maintenance*** to enter the page.

On this page, you can turn on/off the inverter, clear all data, sync device time and restore the device to factory condition.

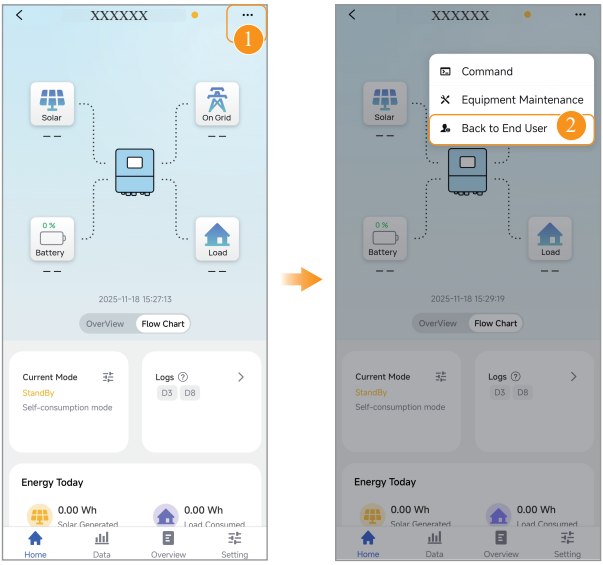
NOTICE

- **Turning the inverter on/off may cause the inverter output to disconnect.**



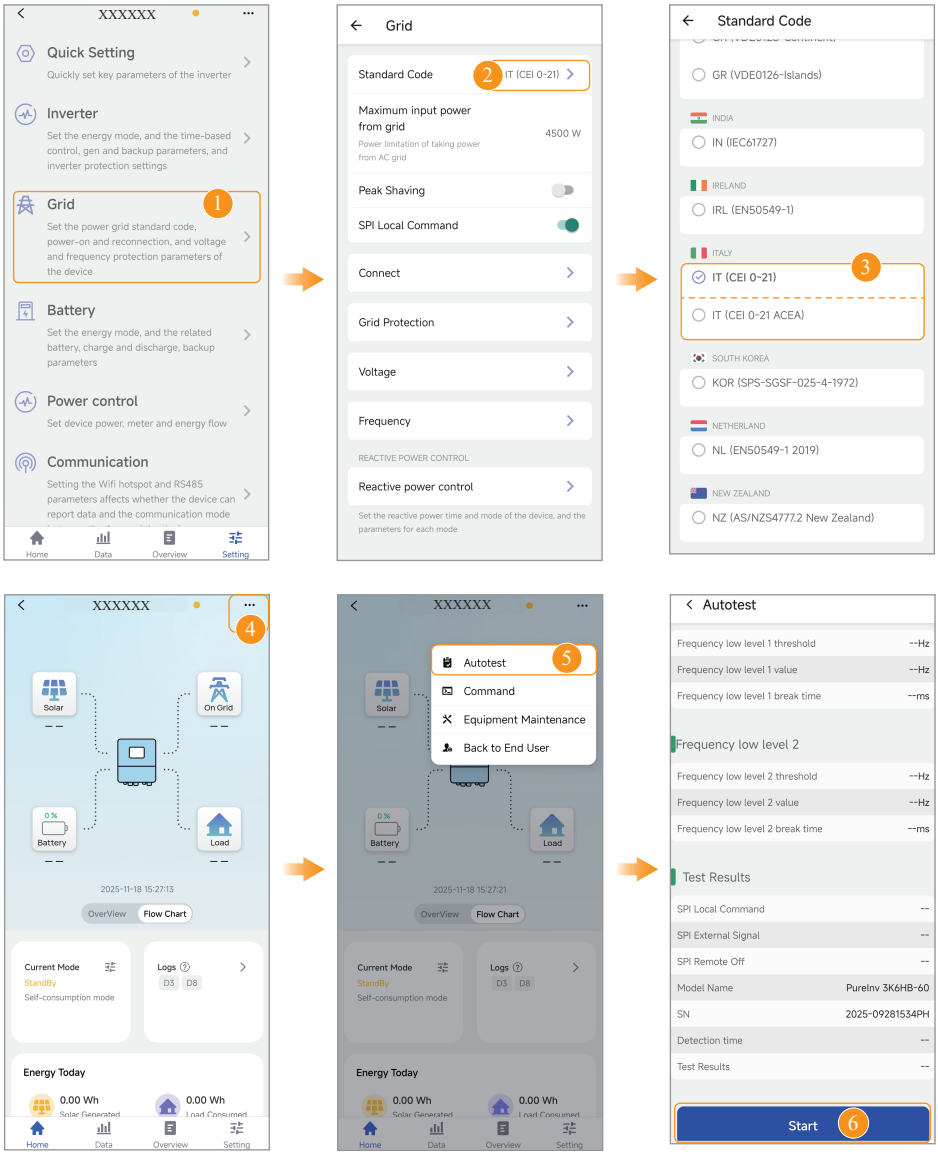
5.7 Back to End User

You can switch to end user access by tapping ***Back to End User***.



5.8 Autotest

Tap ***Setting*** > ***Grid*** > ***Standard Code*** and select the IT (CEI 0-21) or IT (CEI 0-21 ACEA). Go back and refresh ***Home*** page. Tap ***Autotest*** > ***Start*** and wait for about 10 minutes, then the autotest process will be finished.

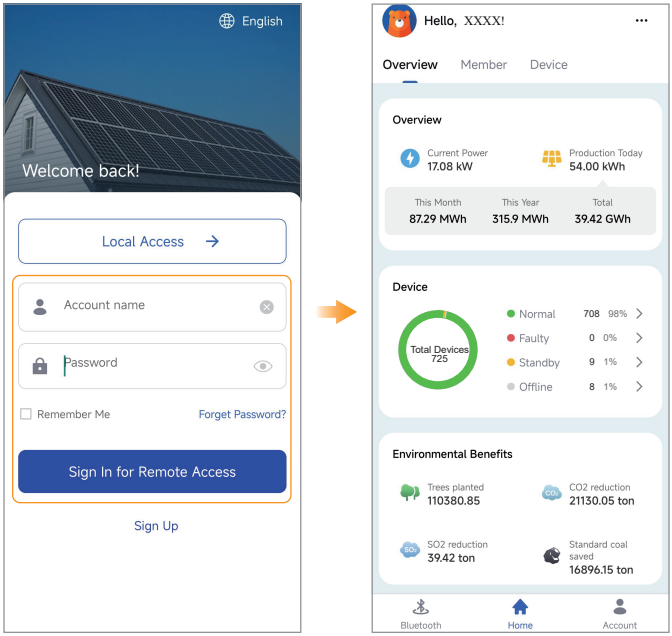


6. Installer Remote Access

Step 1: Power on the inverter and open the app.

Step 2: Sign up for a new installer remote account on the OSS platform or consult the after-sales personnel for the account and password.

Step 3: Enter the account name and password, then sign in for remote access.



6.1 Create an End User

Note:

Before creating a plant, it is necessary to select Installer role for local access to connect the Inverter to the Router:

(1) Power on the inverter and enable the Bluetooth on your phone.

(2) Open the app and tap ***Local Access***.

(3) Select your inverter from the list or scan the SN bar code on the inverter.

(4) Tap Installer to enter the ***Home*** page.

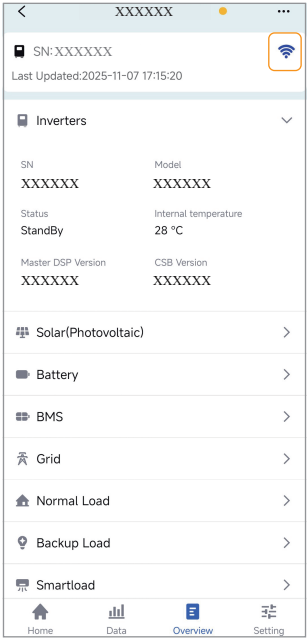
(5) Tap the ***Setting***.

(6) Connect the inverter to the router by entering the Wi-Fi SSID and password.

For more details, refer to Installer Local Access and Setting.

Suggestions for Wi-Fi Router

- It is recommended to use the Wi-Fi router within 15 m, and there is no obstacle between the inverter and the router.
- After installer local access, tap ***Overview*** to check the signal strength. Make sure that the Wi-Fi signal strength is more than three bars.
- When the signal strength is less than three bars, choose one of the following three ways to improve the signal:
  - Move the router closer to the inverter.
  - Adjust the height of the router to reduce obstacles.
  - Add a repeater to improve the signal strength.

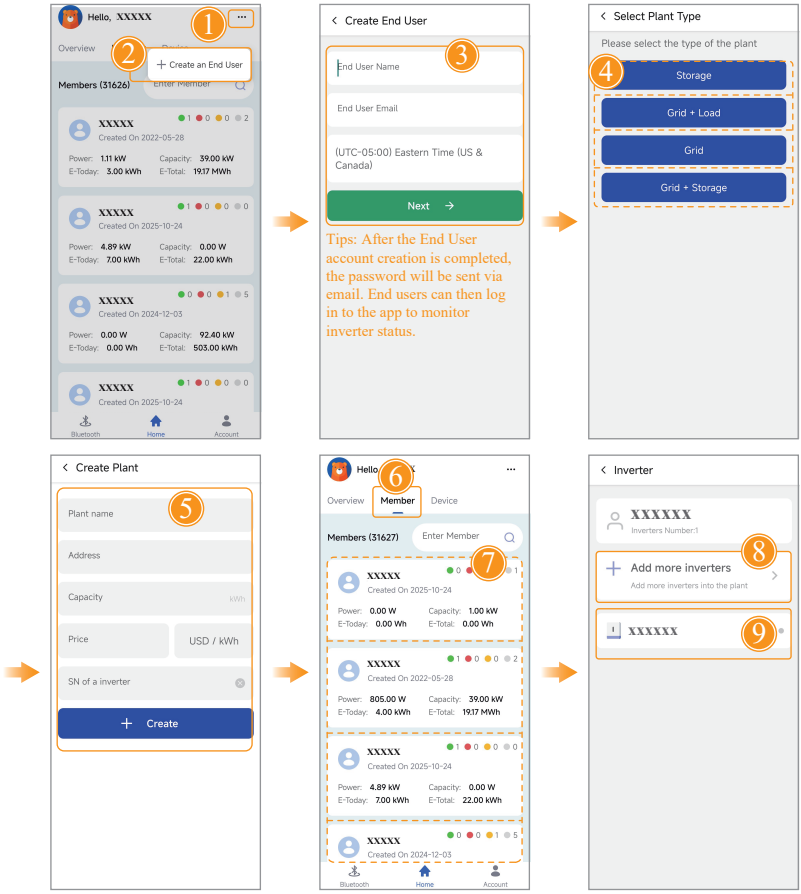


Setting steps for Create a Plant and Binding Inverter

Step 1: Tap "..." > ***Create an End User*** on the ***Home page***, enter the ***End User Name***, ***End User Email***, and time zone required for account creation. After the End User account creation is completed, the password will be sent via email. End users can then log in to the app to monitor inverter status. (See operation 1-3 in figures below.)

Step 2: Select the type of the plant and enter required information to add the power station. (See operation 4-5 in figures below.)

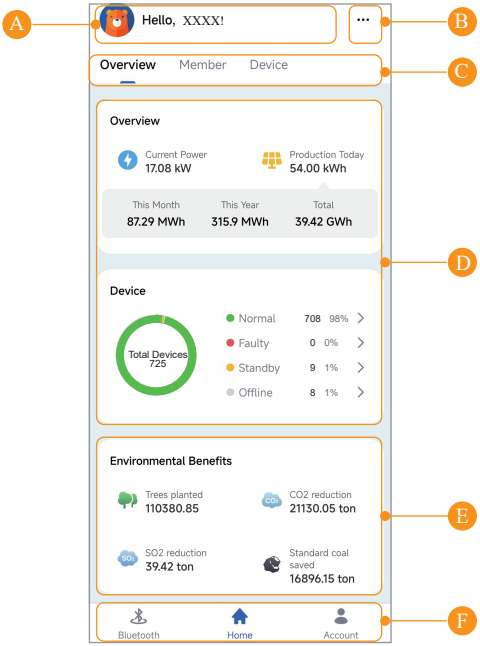
Step 3: Select your power station to add inverters and view inverter status.(See operation 6-9 in figures below.)



6.2 Home

The Home displays the basic information of the plants added in the account.

6.2.1 Overview



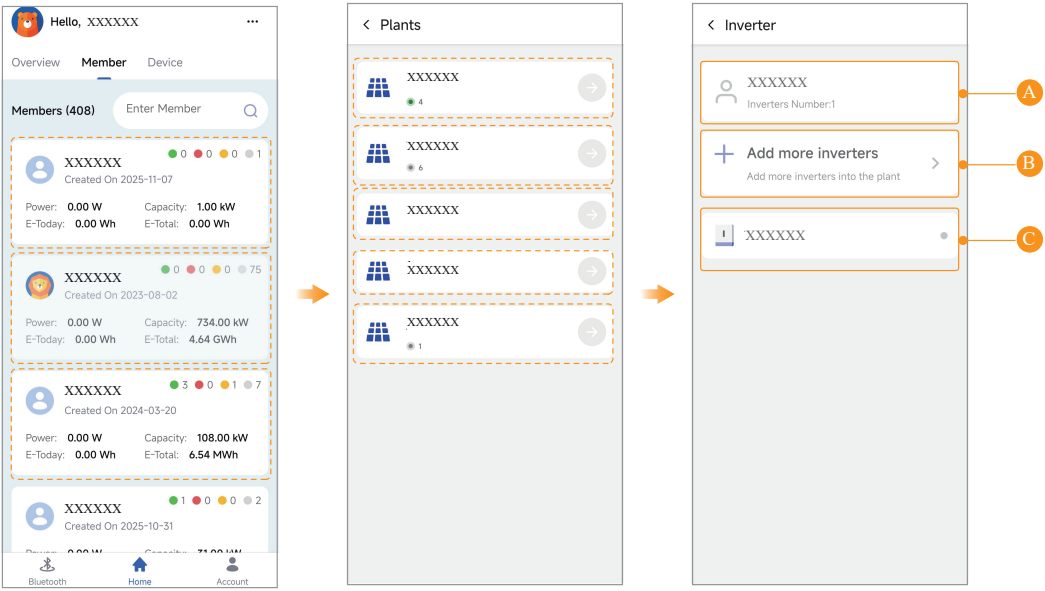
Number	Description
A	Tap the area to modify your account information and sign out.
B	Tap the '...' to create an End User.
C	Tap the corresponding title bar to display the overview, member, or device items.
D	All plants added in the account: • Current power. • Today's, Month's, Year's and Total PV energy generation. • Number of total devices and the status of the each device: ● Normal; ● Faulty; ● Standby; ● Offline
E	Environmental benefits.
F	Bottom navigation bar: ● Bluetooth: Local access ● Home: Set/delete the Plant ● Account: Modify your account information and sign out.

6.2.2 Members Management

The ***Member*** item displays the end users added in the account.

6.2.2.1 Member of the Home Page

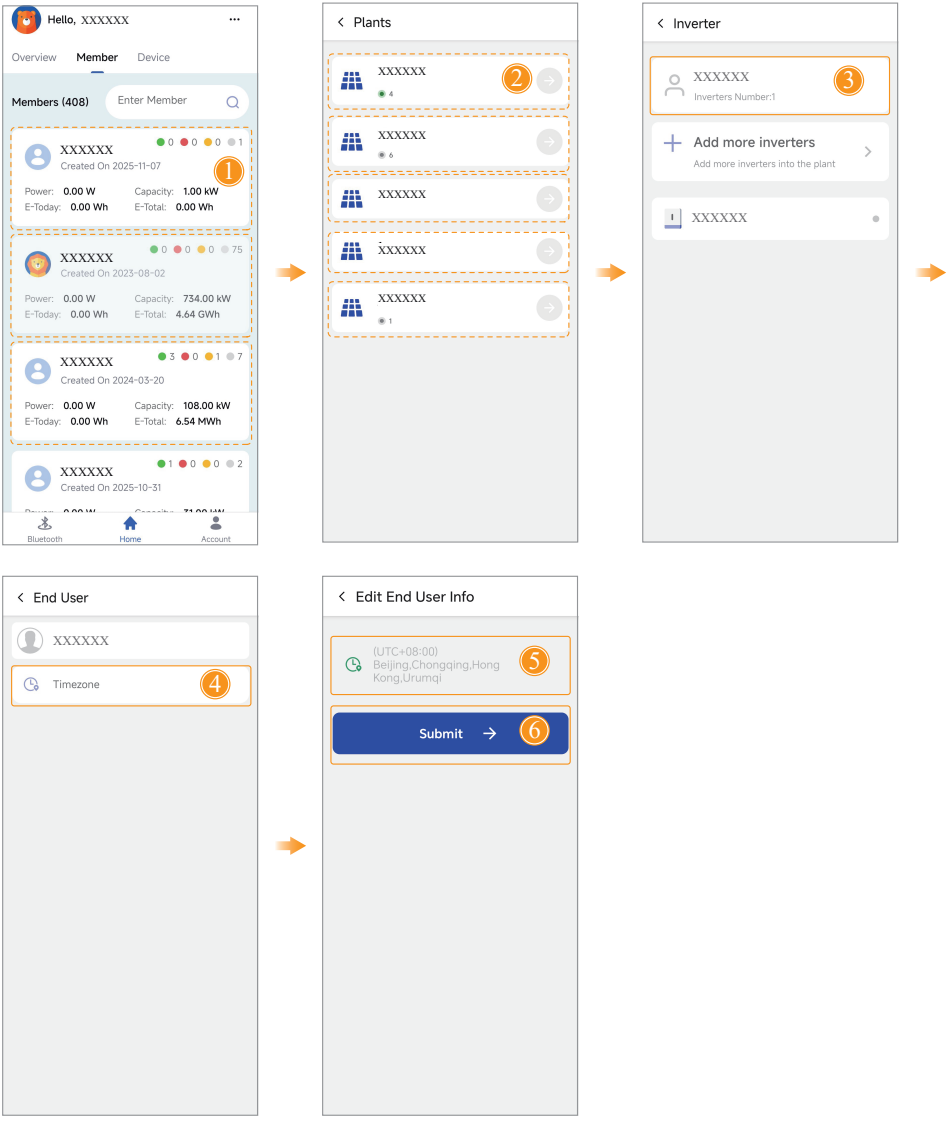
Select the ***Member*** to display.



Number	Description
A	To view the number of inverters currently registered to the member, tap to adjust the time zone.
B	Tap to add more inverters.
C	Tap the serial number of the inverter to enter the inverter ***Home*** page, where you can view or configure information or parameters for the inverter, battery, etc..

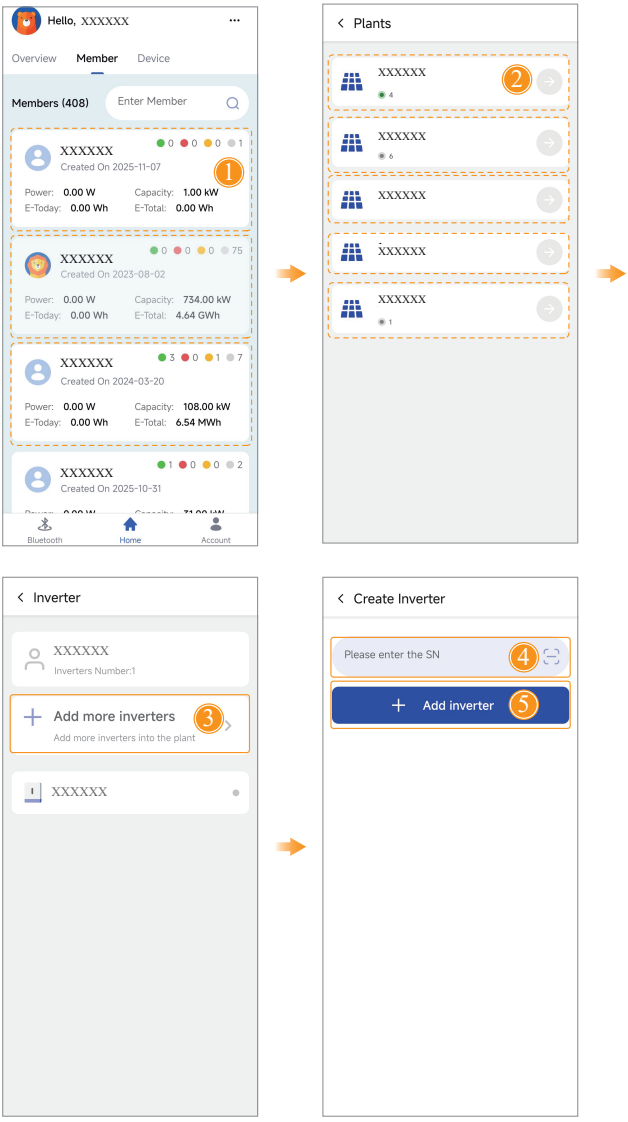
6.2.2.2 Adjust the time zone in the plant

You can adjust the time zone for necessary.



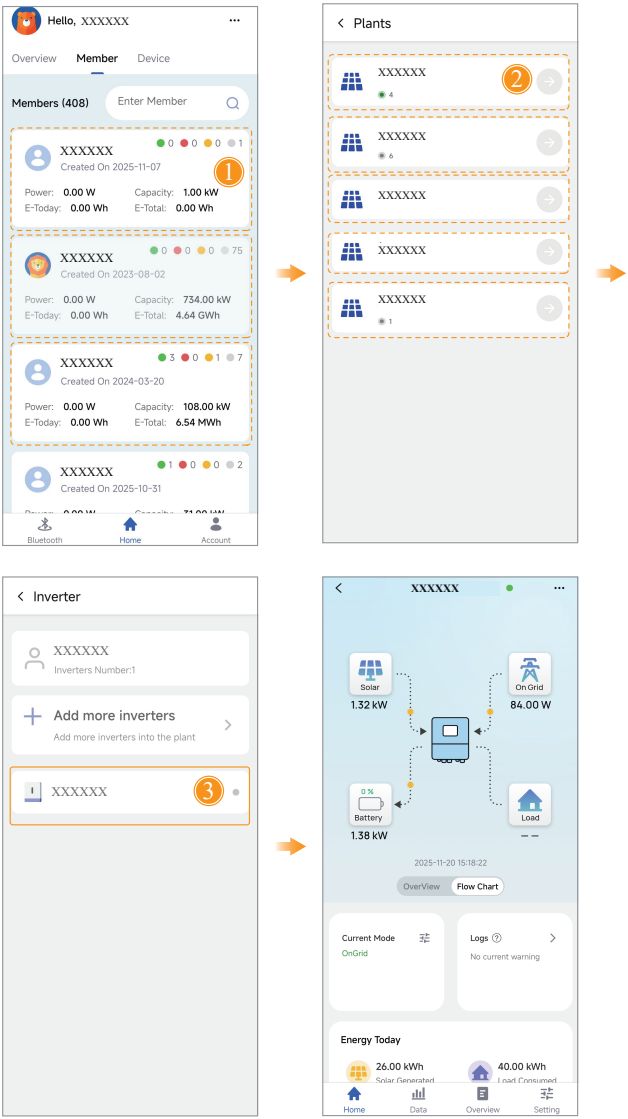
6.2.2.3 Add more inverters in the plant

You can add more inverters for necessary.



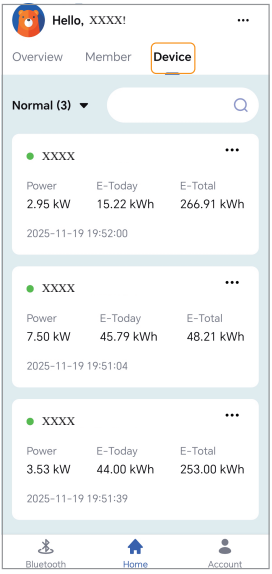
6.2.2.4 Inverter Management

You can view or configure information or parameters for the inverter, battery, grid, etc.. For more details, refer to Installer Local Access.



6.2.3 Account-bound Devices

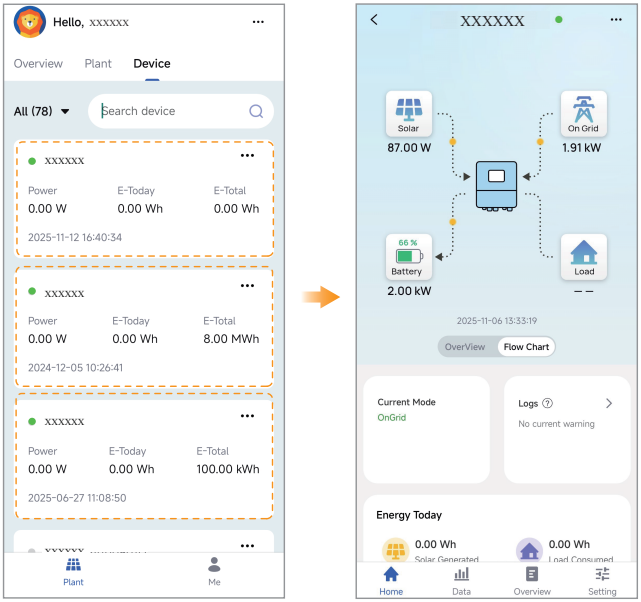
The ***Device*** item displays the inverters added in the account.



6.2.3.1 Home page of the Device

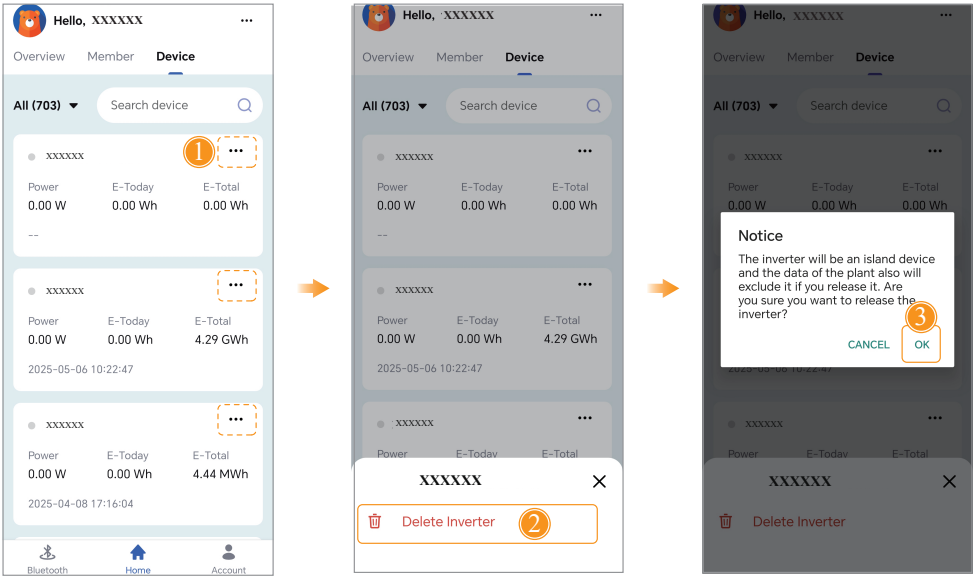
Tap the serial number of the inverter to enter the inverter ***Home*** page, where you can view or configure information or parameters for the inverter, battery, grid, etc..

For more details, refer to Installer Local Access.



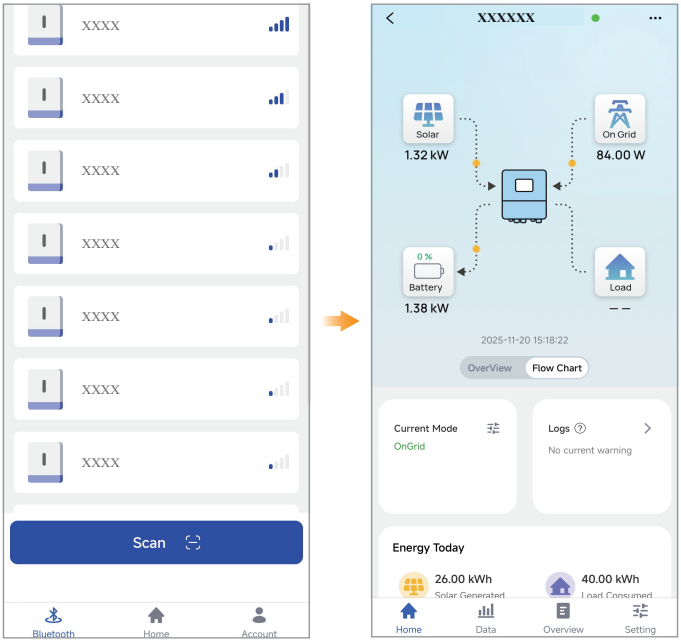
6.2.3.2 Delete the device in the Account

Remove the inverter bound to the current login account.



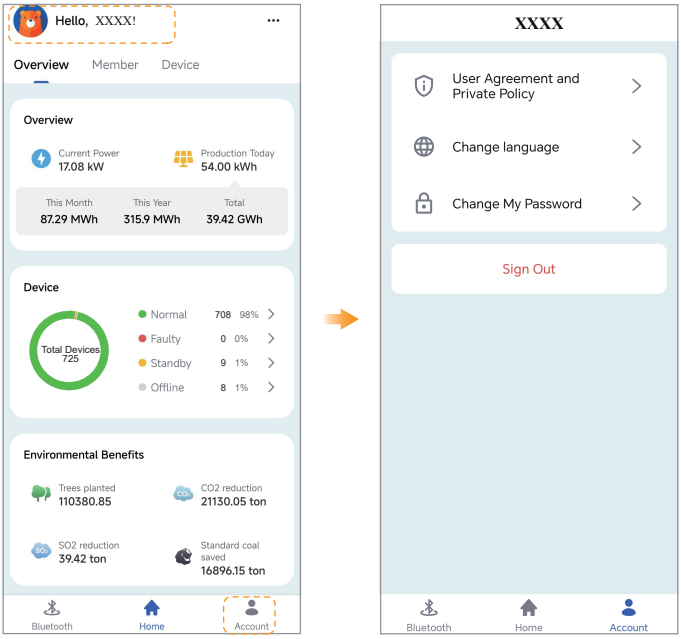
6.3 Bluetooth

On this page, you can connect to the inverter via bluetooth and view or configure information or parameters for the inverter, battery, grid, etc.. For more details, refer to Installer Local Access.



6.4 Account

On this page, you can modify your account information and sign out.



USER MANUAL

SolarVolt App

Version: 02, Date: 202511