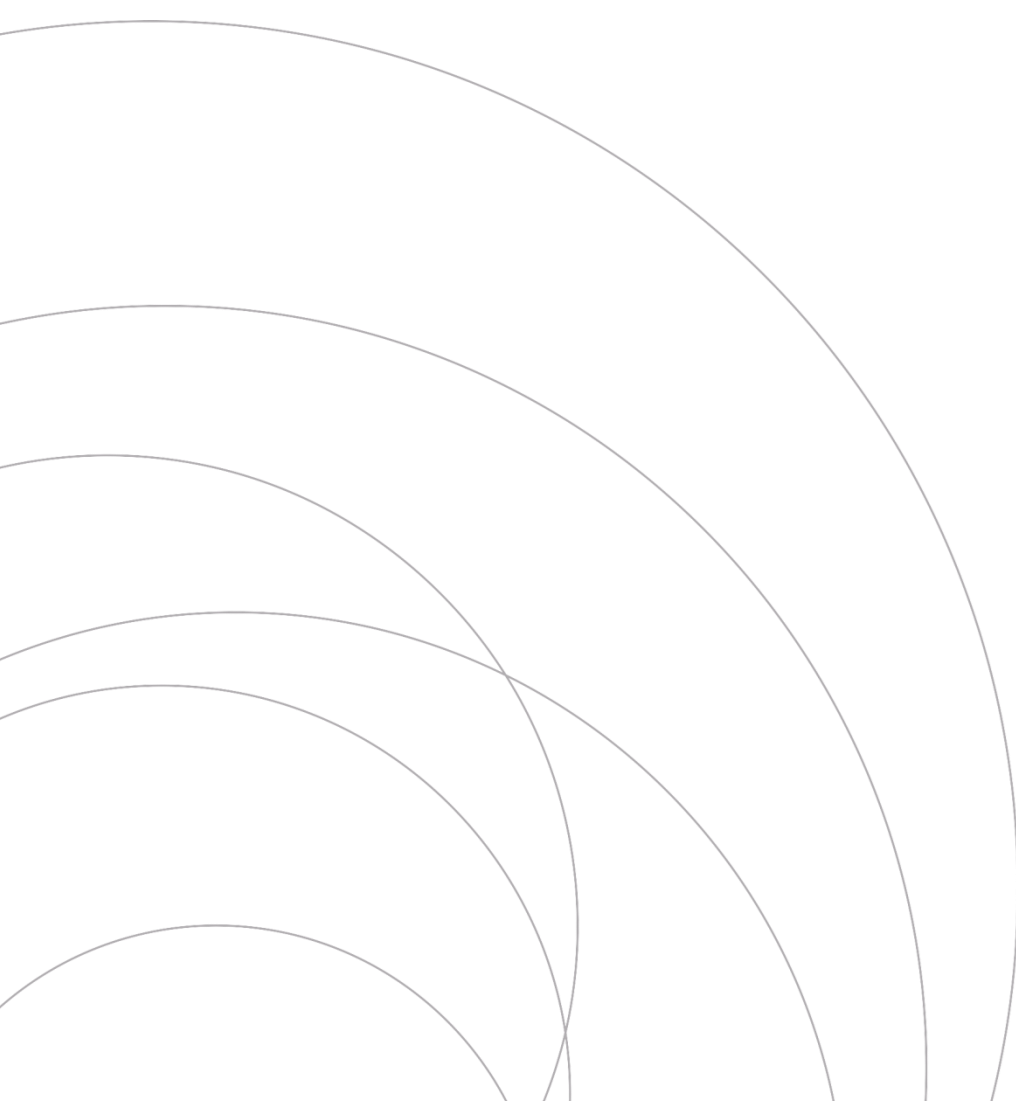




# AP EasyPower User Manual

Version 1.5.7



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# Introduction

AP EasyPower is a smart home energy management tool for DIY Users to control the Wi-Fi integrated EZ Series products, provides local and remote management services for devices.

- Plug-and-Play, fast installation and wiring
- Direct connecting with Bluetooth
- Real-time monitoring
- Online diagnosis & maintenance

# 1. Install and Use AP EasyPower

## 1.1 Install

### iOS:

- Go to App Store
- Search “AP EasyPower”
- Download and install



### Note

iOS 13.1 and up

### Android:

- Go to Google Play Store
- Search “AP EasyPower”
- Download and install



### Note

Android 7.0 and up

### Link:

<https://file.apsystemsema.com:8083/apsystems/apeasypower/download.html>

### QR Code:



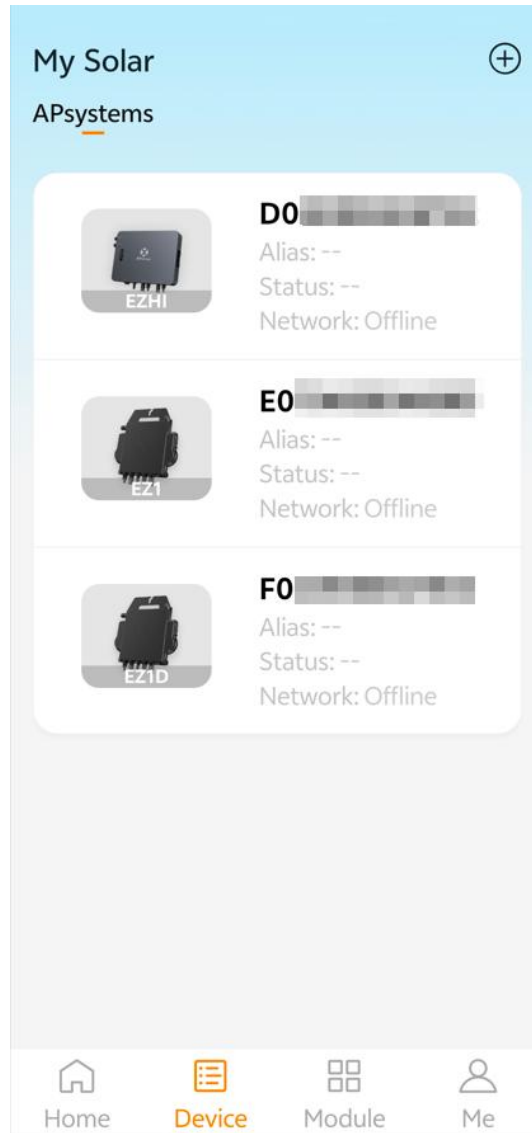
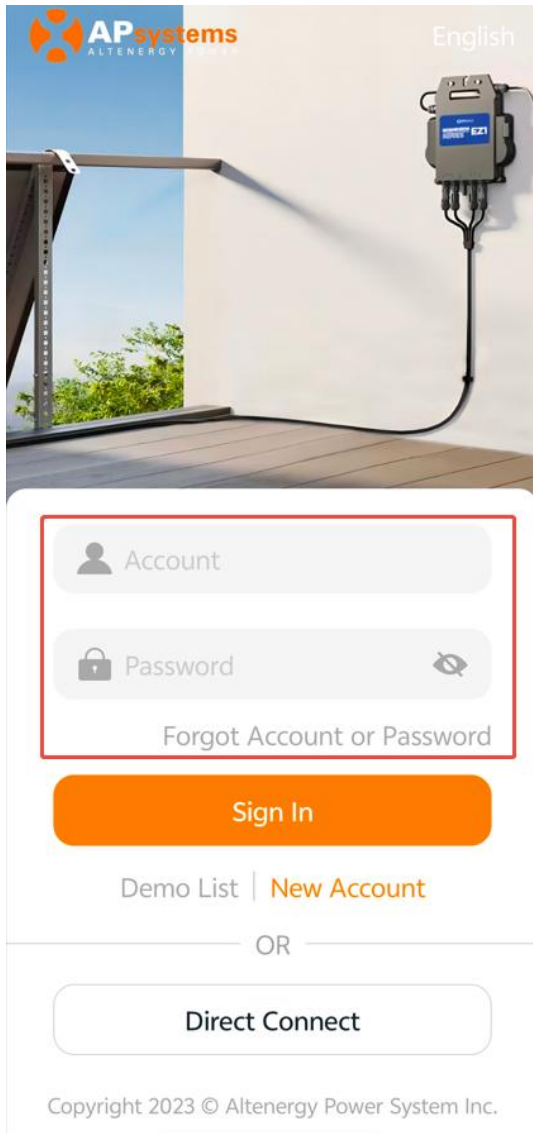
# 1. Install and Use AP EasyPower

## 1.2 Login and Use

AP EasyPower can remotely control EZ devices through the remote mode, enabling functions such as data monitoring, setting maximum power, and configuring device on/off status.

- Enter “Account” and “Password”, press the “**Sign In**” button.

On the home page, a list of your installed device is displayed, you can check whether they are online and operating normally, and you can also individually view the power and status of a specific device.



### Note

- If no installation is registered, the list will be empty.
- If you need to switch the language, click the “**English**” at the upper right corner and select language of your choice.

## 2. Remote Mode

There are two (2) major steps involved in adding a new installation (registering) in the AP EasyPower. All the following introductions take the customer as an example.

Step 1: Register Account - Entering the user's personal information.

Step 2: Link Device - Configuring the device information.

### 2.1 Register

#### 2.1.1 Register Account

➤ Click "**New Account**"

A check list of information is displayed. Fill in all the information and get your own account.

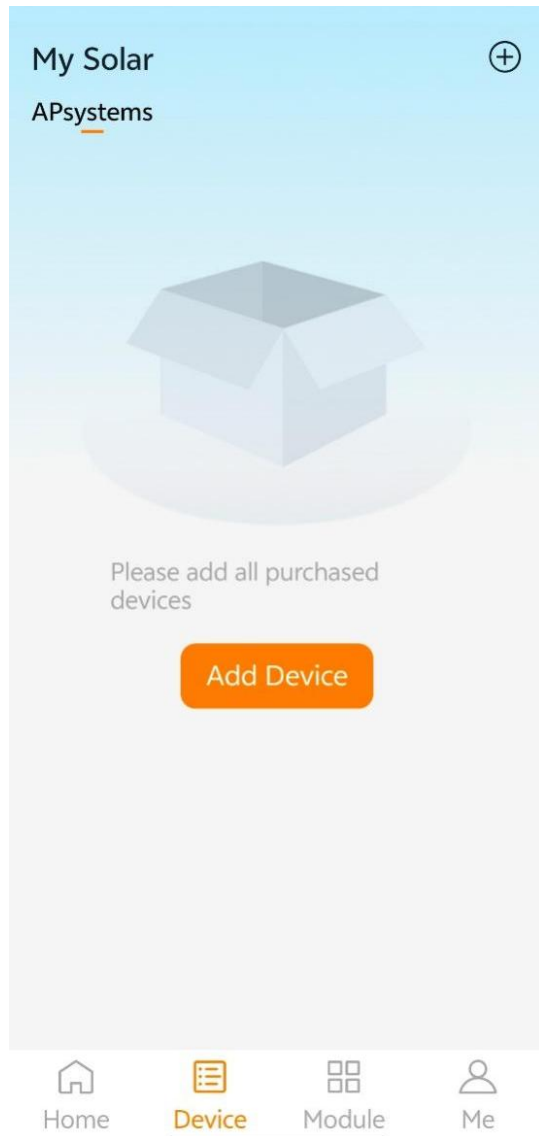
A screenshot of the APsystems login/register interface. At the top left is the APsystems logo and the word "English". Below the logo is a "Sign In" button. Underneath are fields for "Account" and "Password" with a "Forgot Account or Password" link. A "Sign In" button is below these fields. Below the "Sign In" button are two options: "Demo List" and "New Account", with a red arrow pointing to "New Account". Below these is an "OR" separator and a "Direct Connect" button. At the bottom, there is a copyright notice: "Copyright 2023 © Altenergy Power System Inc."A screenshot of the APsystems "Register" form. At the top left is a back arrow and the word "Register". Below this is a red warning message: "The account only can monitor and manage the Wi-Fi integrated EZ Series products." The form contains several input fields: "Account - required", "Password - required" (with an eye icon and a note: "Length 6-32 bits, must contain numbers and letters"), "Region - required" (with a dropdown arrow), "Province - required" (with a dropdown arrow), "Module Model - required", "Module Maximum Power(Pmax) - required" (with a note: "200-1000W" and a "W" icon), "Email - required", and two checkboxes: "Allow APsystems to Send New Productions, Services, Meetings and Marketing News" and "I have read and agree to the Terms of Service".

## 2. Remote Mode

### 2.1.2 Register Device

- Enter your “Account” and “Password”.
- Press the “**Sign in**” button.

Go to the Device page, an empty list is displayed.



Click “**Add Device**” or add icon to enter the device binding process.

There are two (2) major steps involved in binding a new device (registering) for an account. All the following introductions take the customer as an example.

Step 1: Connect the device

Step 2: Select the Wi-Fi

Currently, you are able to link more devices to your account, just repeat the linking device operations until linking all your devices.

## 2. Remote Mode

### 2.1.2.1 Connect the device

There are three (3) methods to connect a device.

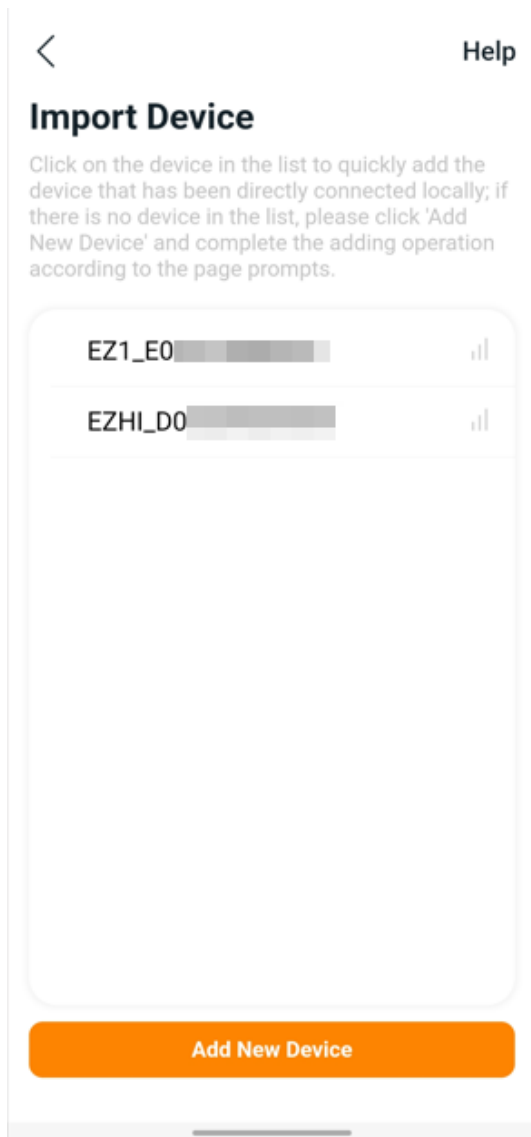
**Method 1: [Import]**, import the device direct connected before.

**Method 2: [Scan]**, scan the bar code of the inverter id to connect.

**Method 3: [Bluetooth]**, select the device in Bluetooth searching list to connect.

#### ● Import

On the device page, a device list which direct connected before is displayed. Select the device to bind.



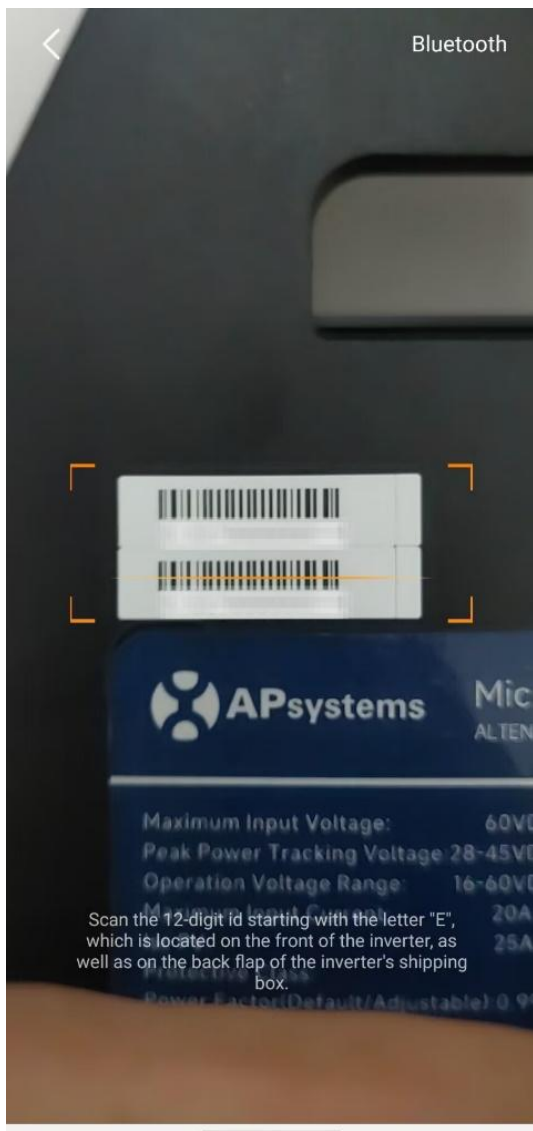
#### Note

Click **"Add New Device"** to switch to **[Scan]** or **[Bluetooth]** mode.

## 2. Remote Mode

### ● Scan

On the scanning page, a scan box is displayed. Scan the inverter ID to connect.



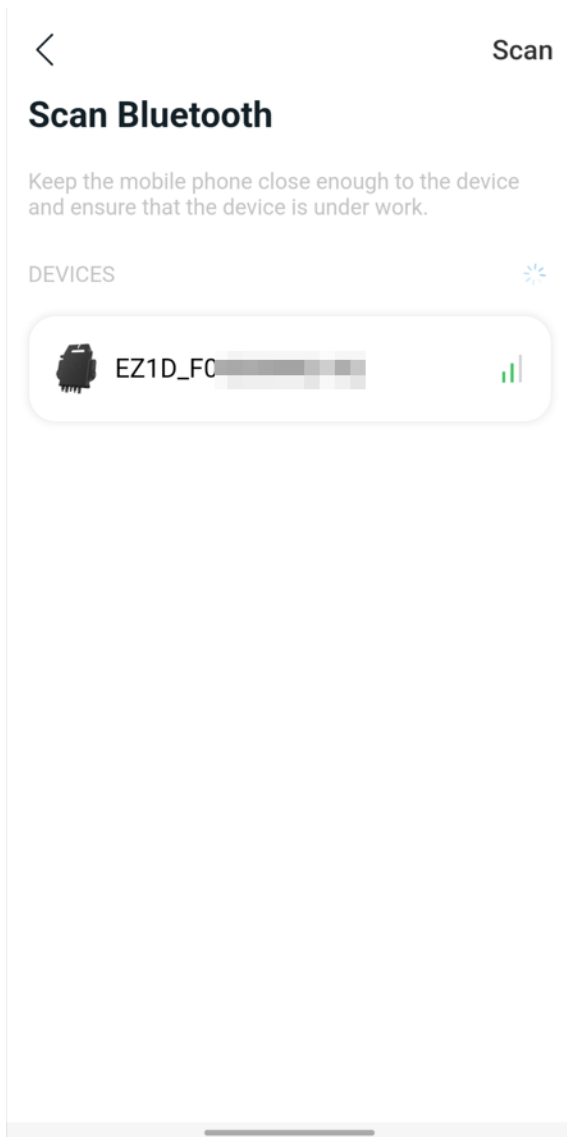
### Note

- Each device has a unique ID (length: 12) which is located on the front of the device, as well as on the back flap of the device's shipping box.
- Click the button "**Bluetooth**" at the upper right corner to switch to "Bluetooth" mode.

## 2. Remote Mode

### ● Bluetooth

On the Bluetooth page, a device list is displayed. Select the device to connect.



### Note

The Bluetooth alias of the device has with the same ending serial number of the inverter ID.

## 2. Remote Mode

### 2.1.2.2 Set the Wi-Fi

Select the Wi-Fi to connect, and the device can get the remote services.

<

### Wi-Fi Configuration

The device only supports 2.4GHz Wi-Fi.

Wi-Fi Name

Wi-Fi Password

In most cases, the failure is caused by the wrong password. Please double-check the password entered. Do not enter the password if the Wi-Fi do not have one.

Submit



#### Note

In most cases, the failure is caused by the wrong password. Please double-check the password entered. Do not enter the password if the Wi-Fi do not have one.

## 2. Remote Mode

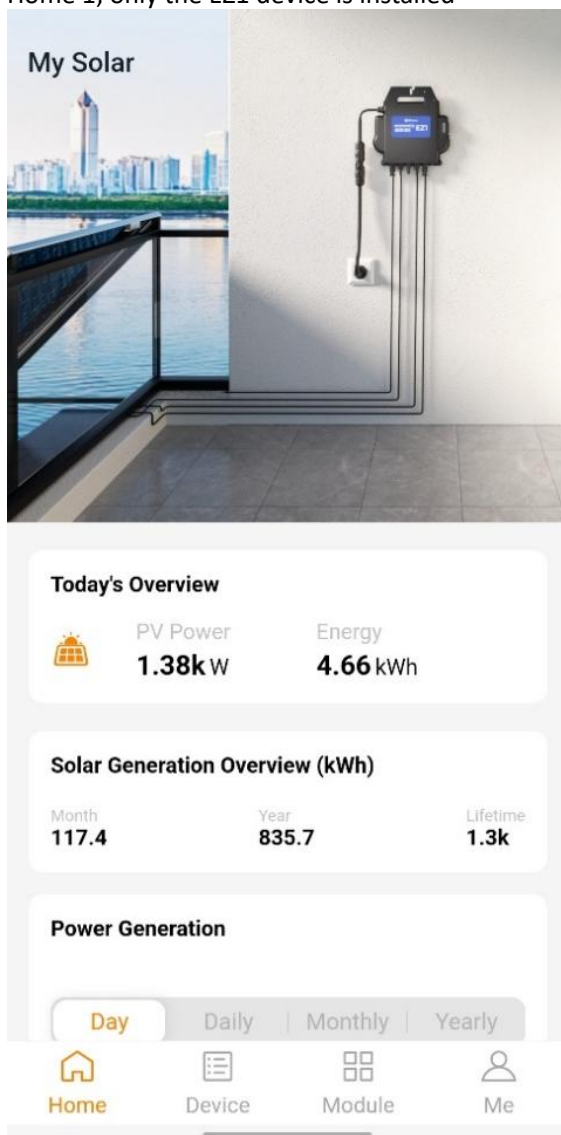
### 2.2 Monitor & Control (Station Level)

#### 2.2.1 Home

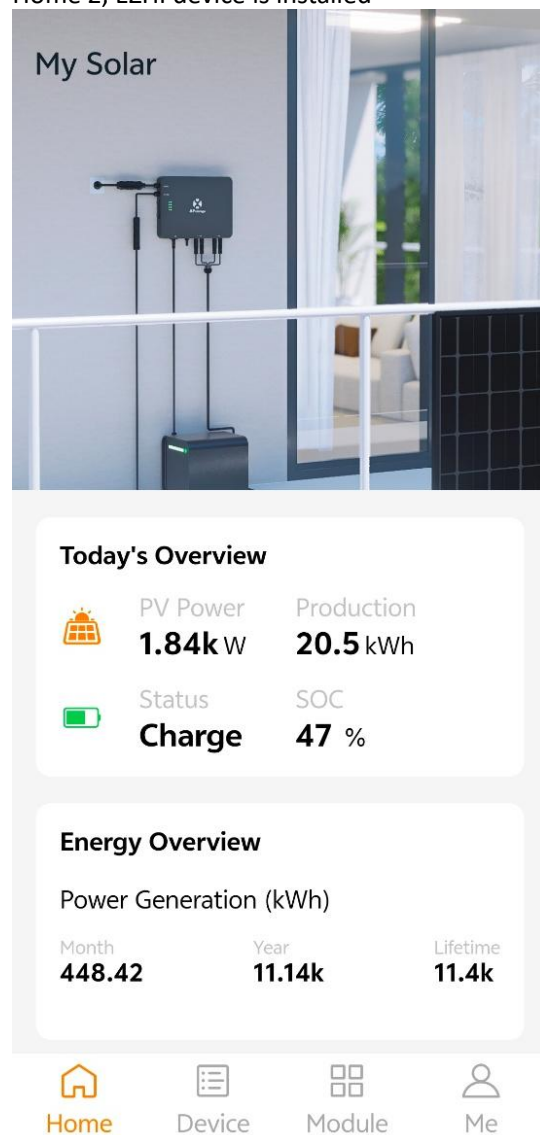
Displays the operation status of the power station, power generation data and environmental benefits generated by the operation of the power station.

- Click the "Sun" or "Battery" icon to switch data types.
- Switch "**Day**", "**Daily**", "**Monthly**", "**Yearly**" and date to view the historical power data of the power station in different time dimensions.

Home 1, only the EZ1 device is installed



Home 2, EZHI device is installed

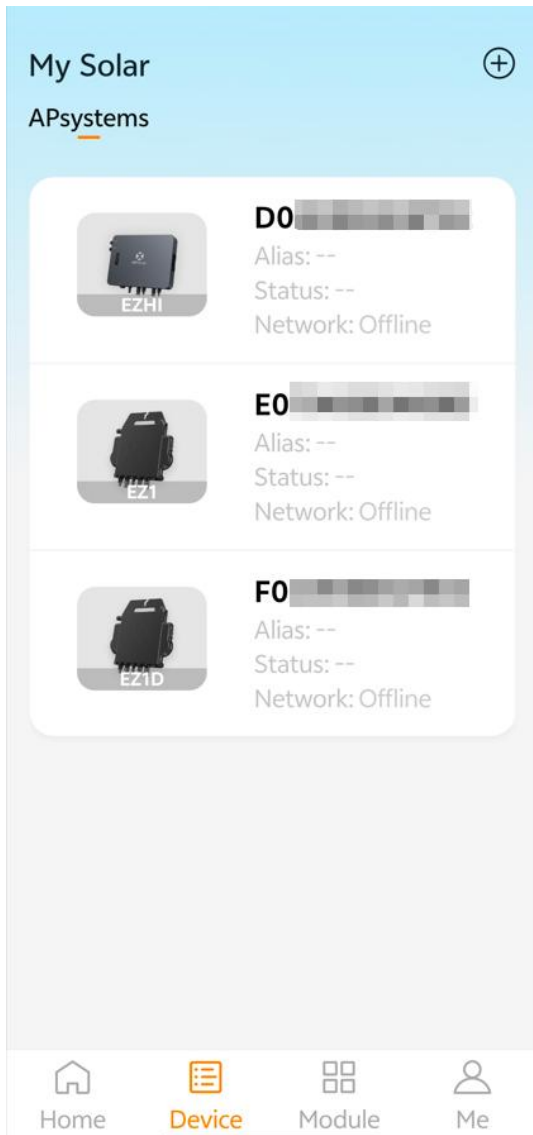


## 2. Remote Mode

### 2.2.2 Device

Device list shows the equipment installed in the power station and the correlation between the equipment.

- Click "**Device**" to enter the list to view the equipment installed in the power station.
- Click the device information card in the list to view detailed information about the corresponding device.

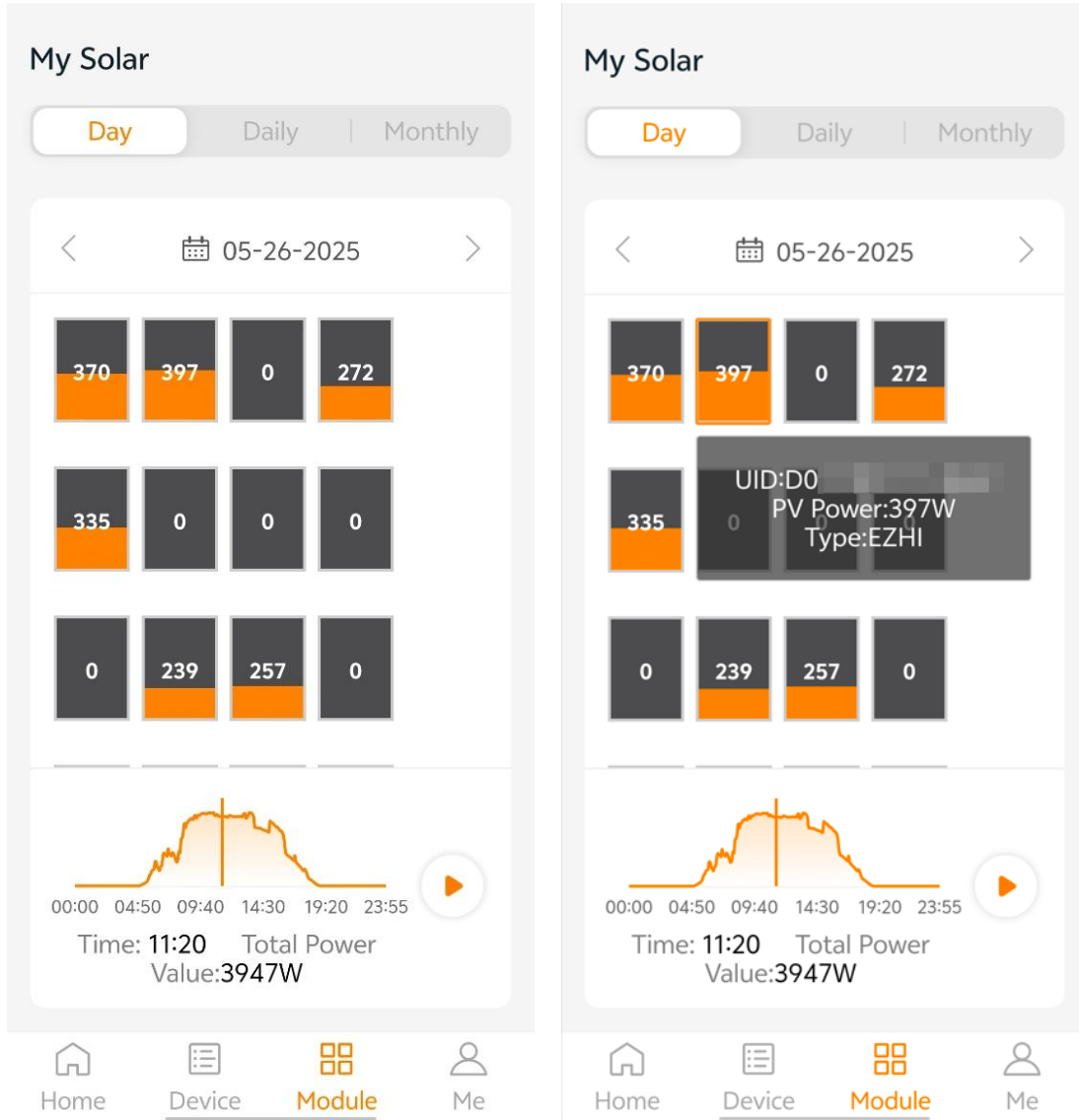


# 2. Remote Mode

## 2.2.3 Module

View the running status of modules.

- Click on any module to view module information.



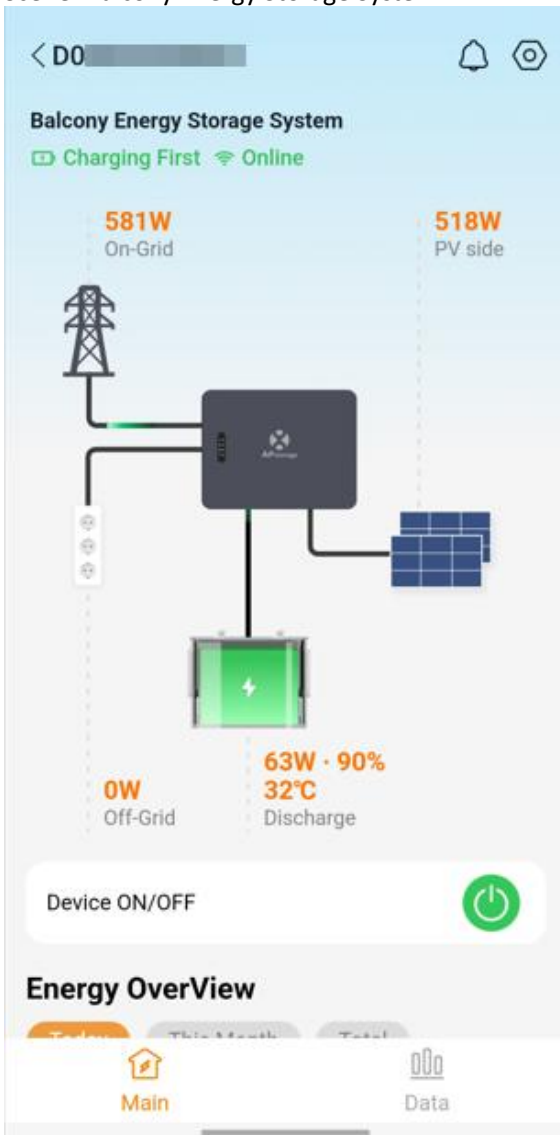
## 2. Remote Mode

### 2.3 Monitor & Control (Device Level)

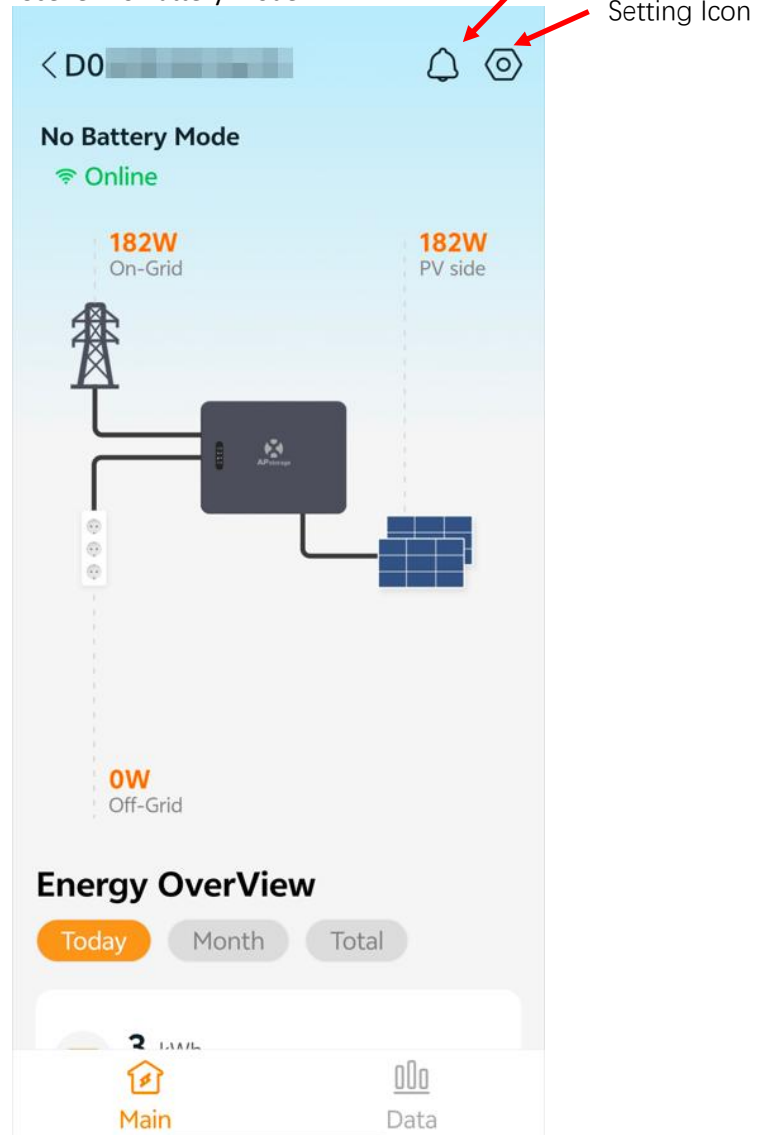
#### 2.3.1 EZHI Series Device

##### 2.3.1.1 Main

Scene: Balcony Energy Storage System



Scene: No Battery Mode



On this page, user can visualize

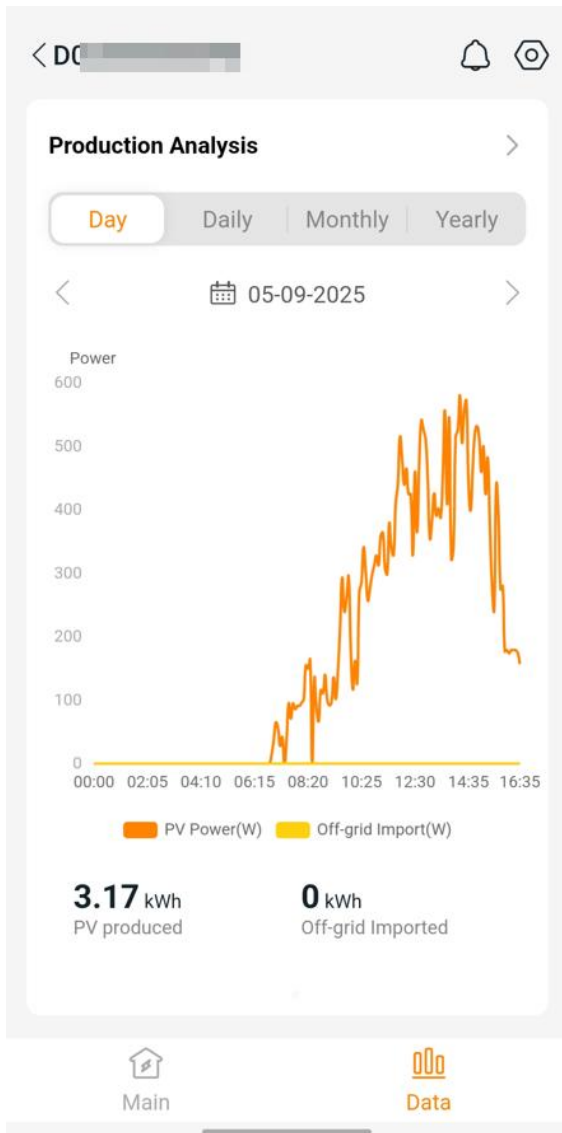
- **Live Data:** The real-time data of the device, including the input/output power according to the PV side, battery side, on-grid side and off-grid side, work mode and scene.
- **Device ON/OFF:** Device can be turned on or off.
- **Energy Overview:** The energy for the production side, consumption side and battery side. User can switch the "Today", "Month", "Total" to get the accumulated data for each period.
- **Battery Status:** The status information of the battery.

By pressing "alarm icon" to check the alarm information if the device status is alarm.

By pressing "setting icon" to set the device.

## 2. Remote Mode

### 2.3.1.2 Data

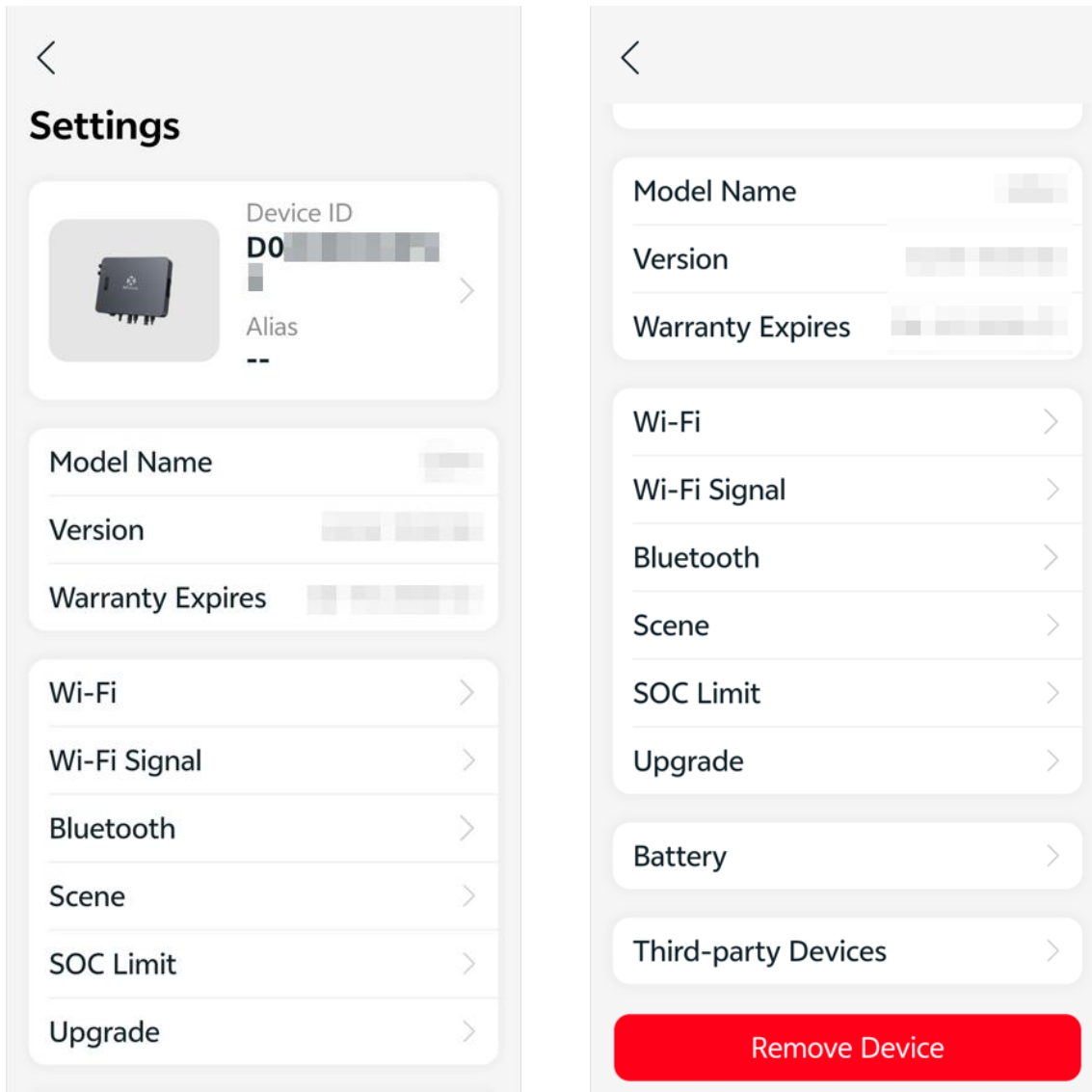


In this page, you can view the detailed data on **single device** level:

- Per 5 minutes
- Per day
- Per month
- Per year

## 2. Remote Mode

### 2.3.1.3 Settings

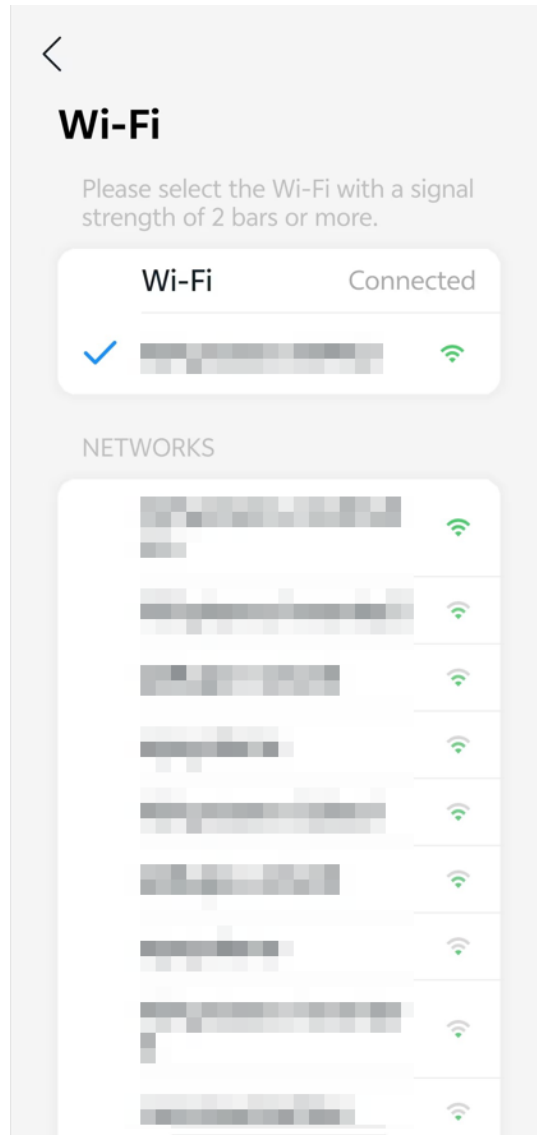
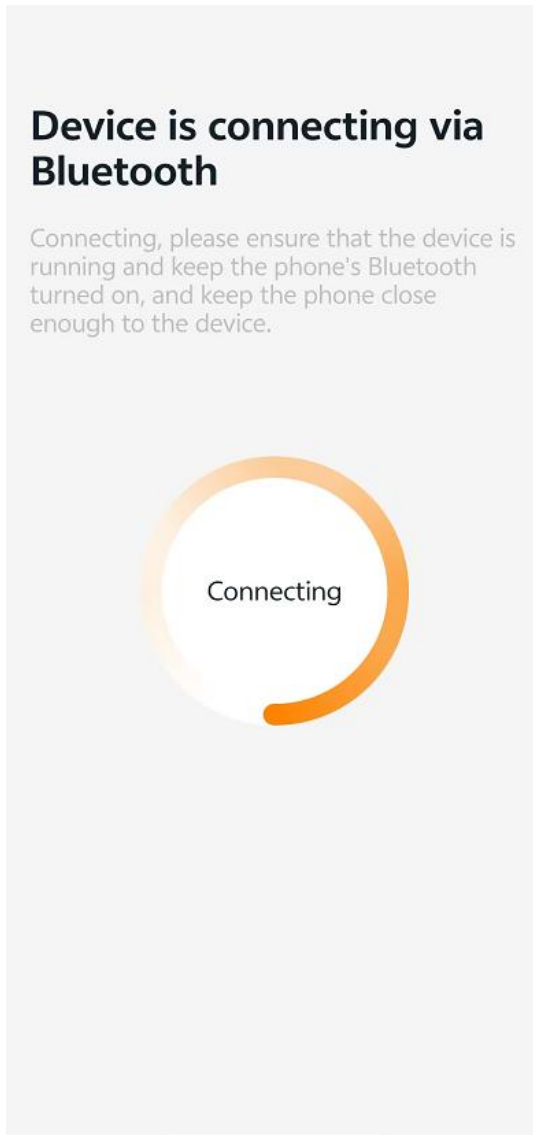


On the setting page, user can visualize

- **Device Card:** Show the serial ID and alias, click it to edit the alias.
- **Model Name:** The device model type name.
- **Version:** Show the version of device.
- **Warranty Expires:** Show the warranty date of device.
- **Wi-Fi:** Used to reset the Wi-Fi via Bluetooth.
- **Wi-Fi Signal:** Used to detect Wi-Fi signal strength.
- **Bluetooth:** Lock the Bluetooth of the device for security.
- **Scene:** Switch the scene and set the corresponding work mode.
- **SOC Limit:** Set the maximum SOC and minimum SOC.
- **Upgrade:** Remote firmware upgrade for device.
- **Battery:** Show the battery brand and capacity.
- **Third-party Devices:** Display bound third-party devices.
- **Remove Device:** Enter the password to remove the device

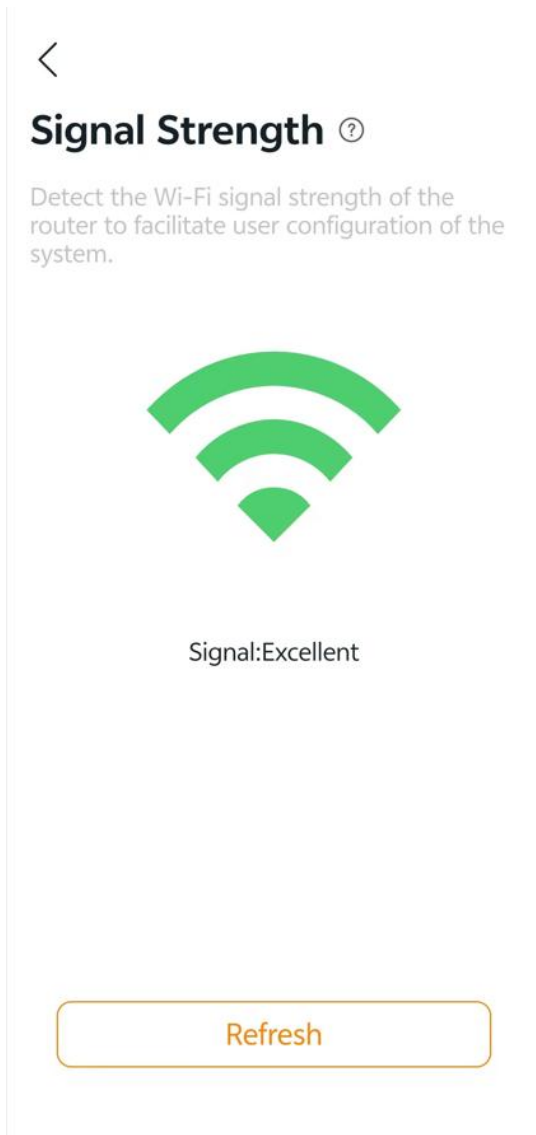
## 2. Remote Mode

- **Wi-Fi:** Used to reset the Wi-Fi via Bluetooth.



## 2. Remote Mode

- **Wi-Fi Signal:** Used to detect Wi-Fi signal strength.



## 2. Remote Mode

- **Bluetooth:** Lock the Bluetooth of the device for security.



## 2. Remote Mode

■ **Scene:** Switch the scene and set the corresponding work mode.

EZHI has 5 scenarios, namely: Balcony Energy Storage System, Portable Power Station, AI Mode, Local Mode and No Battery Mode.

**Balcony Energy Storage System:** Store the residual PV power generated during the day into the battery for use at night.

**Backup Power:** The device will enter an emergency power state after enabled.

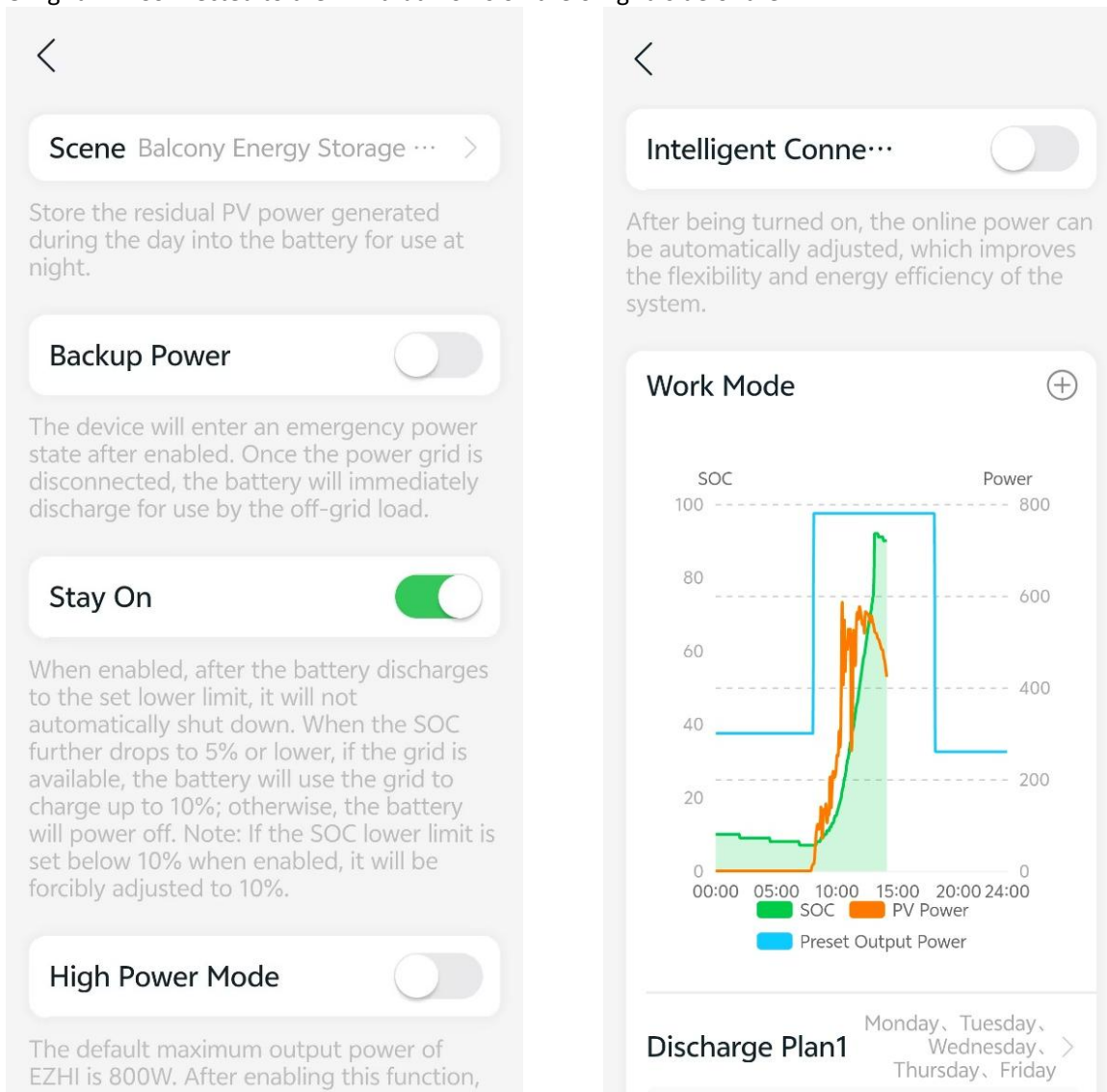
**Stay on:** When enabled, after the battery discharges to the set lower limit, it will not automatically shut down.

**High Power Mode:** After enabling this function, the maximum power that users can set, as well as the output power upper limits in the intelligent linkage and AI modes, are both increased to 1200W.

**Intelligent Connectivity:** After being turned on, the online power can be automatically adjusted, which improves the flexibility and energy efficiency of the system.

**Work Mode:** You could set the work mode for different periods to use the power generation more effectively.

**Off-grid PV:** Connected to the EZ1 that works on the off-grid side of the EZHI.

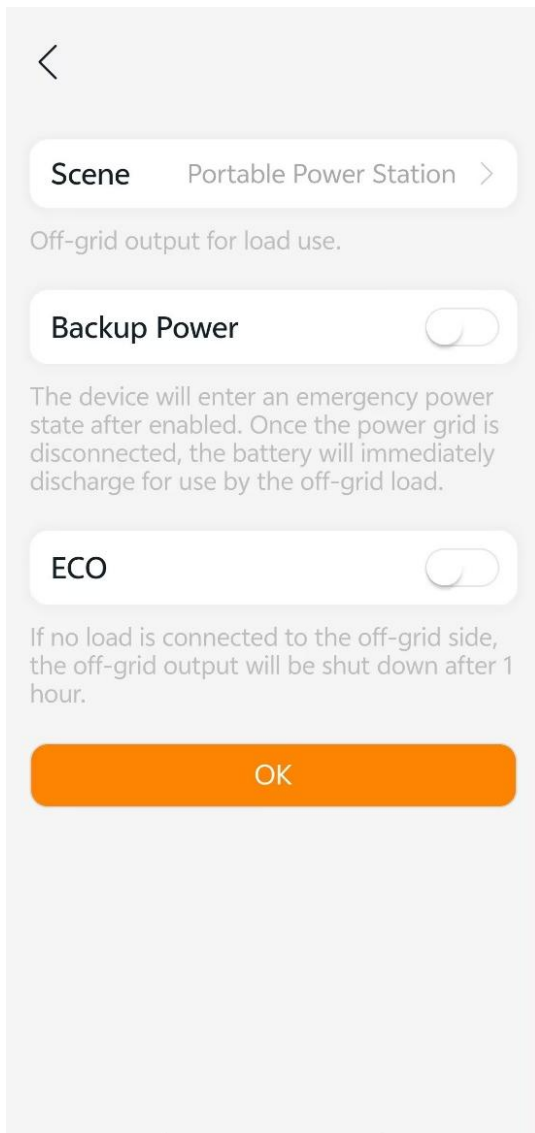


## 2. Remote Mode

**Portable Power Station:** Off-grid output for load use.

**Backup Power:** The device will enter an emergency power state after enabled.

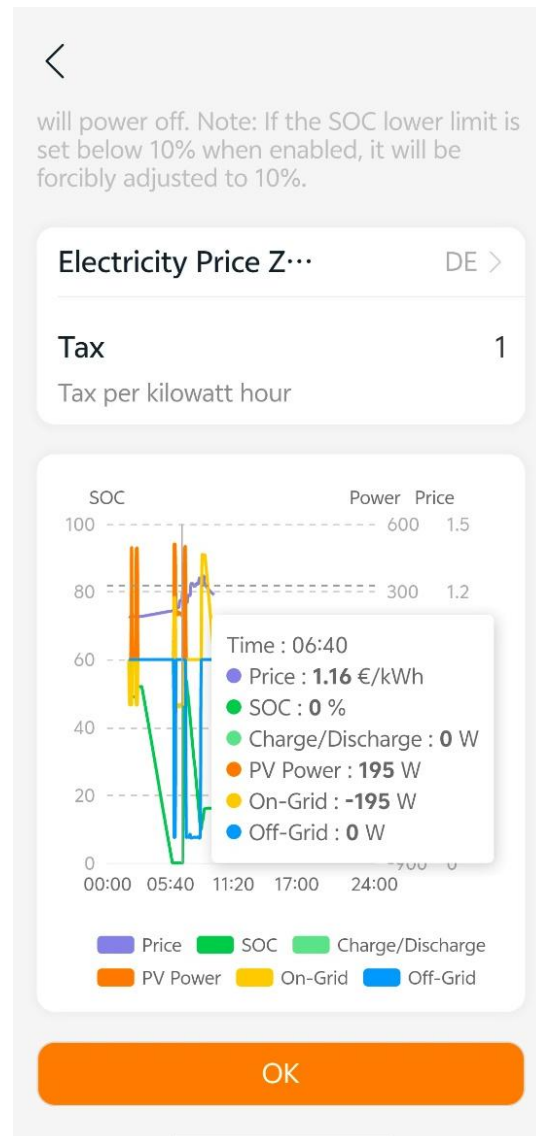
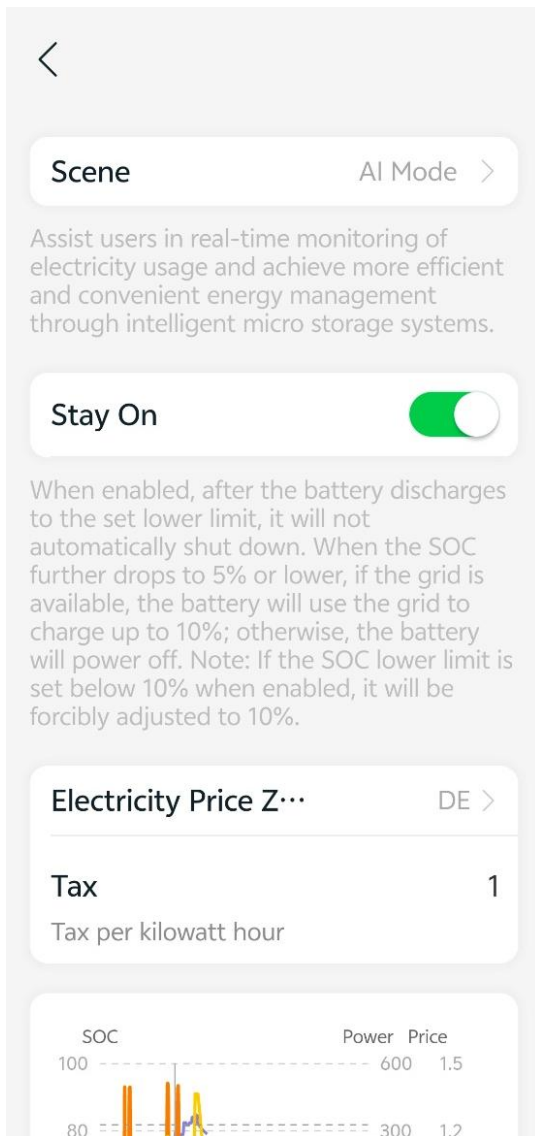
**ECO:** If no load is connected to the off-grid side, the off-grid output will be shut down after 1 hour.



## 2. Remote Mode

**AI Mode:** Assist users in real-time monitoring of electricity usage and achieve more efficient and convenient energy management through intelligent micro storage systems.

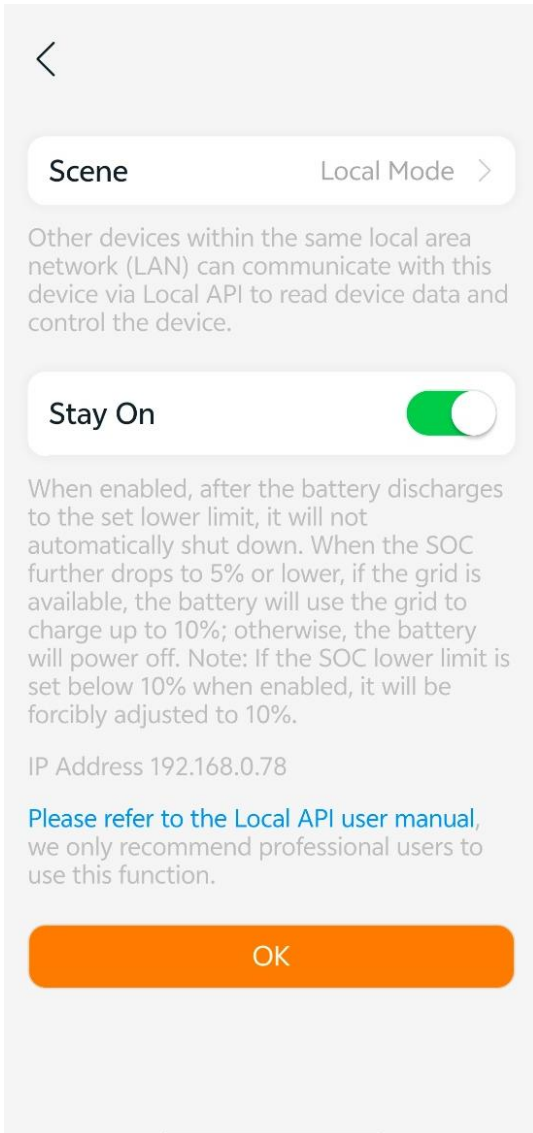
**Stay On:** When enabled, after the battery discharges to the set lower limit, it will not automatically shut down.



## 2. Remote Mode

**Local Mode:** Other devices within the same local area network (LAN) can communicate with this device via Local API to read device data and control the device.

**Stay On:** When enabled, after the battery discharges to the set lower limit, it will not automatically shut down.



## 2. Remote Mode

**No Battery Mode:** You can still use the EZHI inverter normally when there is no battery. After this mode is activated, all information and settings related to the battery will be hidden.

**High Power Mode:** After enabling this function, the maximum power that users can set, as well as the output power upper limits in the intelligent linkage and AI modes, are both increased to 1200W.

**Intelligent Connectivity:** After being turned on, the online power can be automatically adjusted, which improves the flexibility and energy efficiency of the system.

**Work Mode:** To utilize photovoltaic power generation more effectively, you can set different output power for different time periods.

**Off-grid PV:** Connected to the EZ1 that works on the off-grid side of the EZHI.

The screenshot displays the EZHI remote control app interface. On the left, there are settings for 'Scene' (No Battery Mode), 'High Power Mode' (disabled), 'Intelligent Connection' (disabled), and 'Work Mode' (with a graph showing power levels). On the right, there is a 'Discharge Plan' section with two plans: 'Discharge Plan1' (Monday, Tuesday, Wednesday, Thursday, Friday) and 'Discharge Plan2' (Sunday, Saturday). Below the plans, there is an 'Off-grid PV' status (Not Connected) and an 'OK' button.

**Scene** No Battery Mode >

**High Power Mode**

The default maximum output power of EZHI is 800W. After enabling this function, the maximum power that users can set, as well as the output power upper limits in the intelligent linkage and AI modes, are both increased to 1200W.

**Intelligent Connection**

After being turned on, the online power can be automatically adjusted, which improves the flexibility and energy efficiency of the system.

**Work Mode** (+)

Power

800

600

**Discharge Plan1** Monday, Tuesday, Wednesday, Thursday, Friday >

00:00-08:00 300W  
18:00-24:00 260W  
08:00-18:00 780W

**Discharge Plan2** Sunday, Saturday >

00:00-11:00 50W  
17:00-24:00 225W  
11:00-17:00 800W

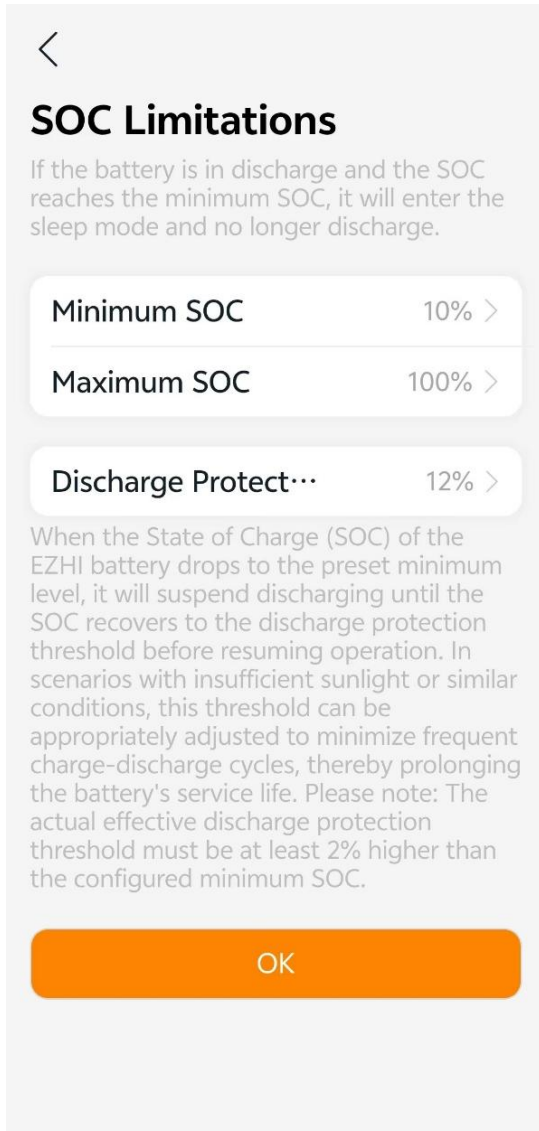
To utilize photovoltaic power generation more effectively, you can set different output power for different time periods. If not set, the default output power is 200W.

**Off-grid PV** Not Connected >

OK

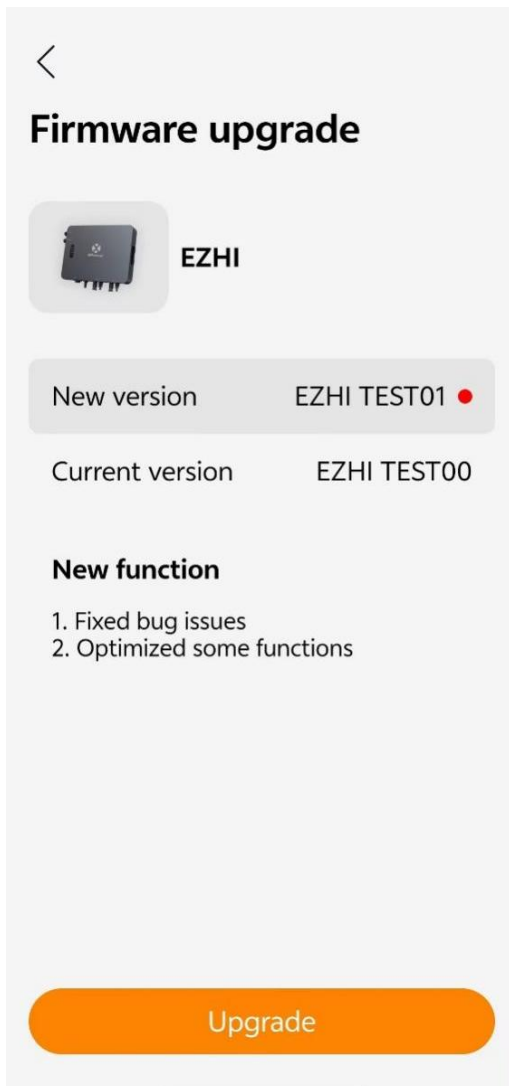
## 2. Remote Mode

- **SOC Limit:** Set the maximum SOC, minimum SOC and Discharge protection. This option will not be displayed when the scenario is set to No Battery Mode.



## 2. Remote Mode

- **Upgrade:** Remote firmware upgrade for device.

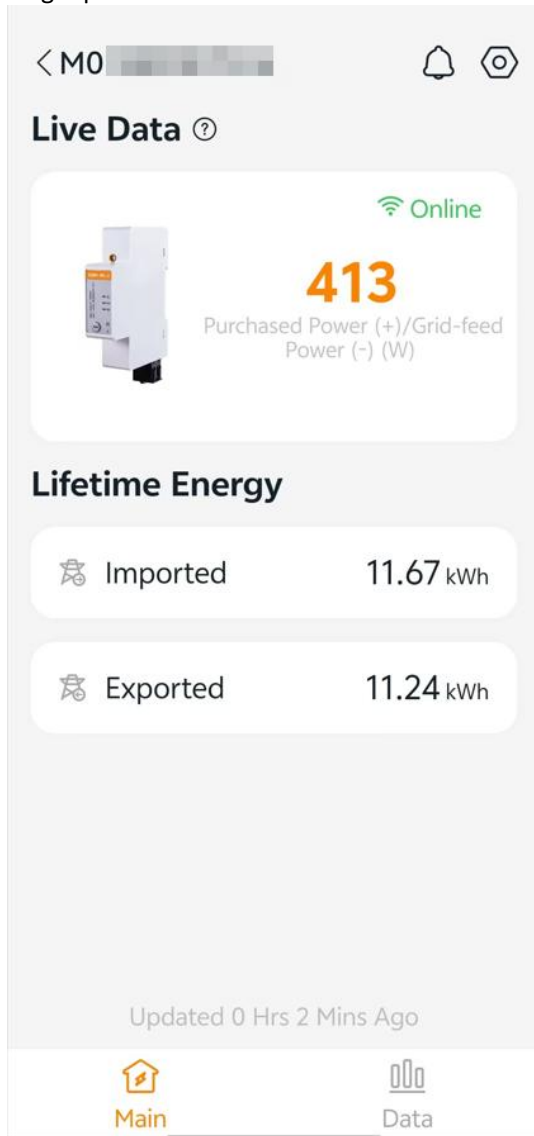


## 2. Remote Mode

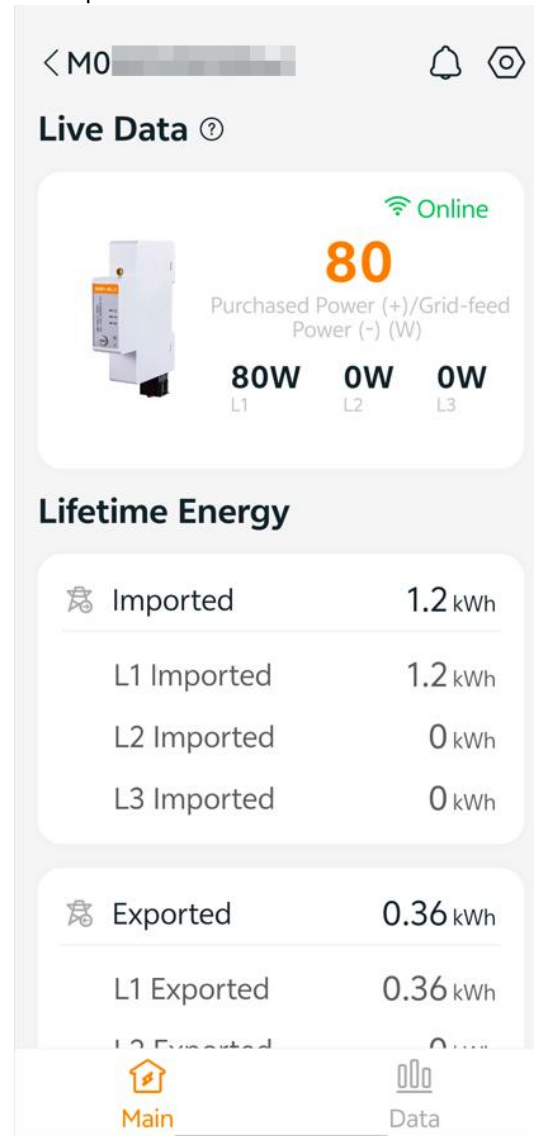
### 2.3.2 APmeter Series Device

#### 2.3.2.1 Main

Single-phase smart meter



Three-phase smart meter



On this page, user can visualize

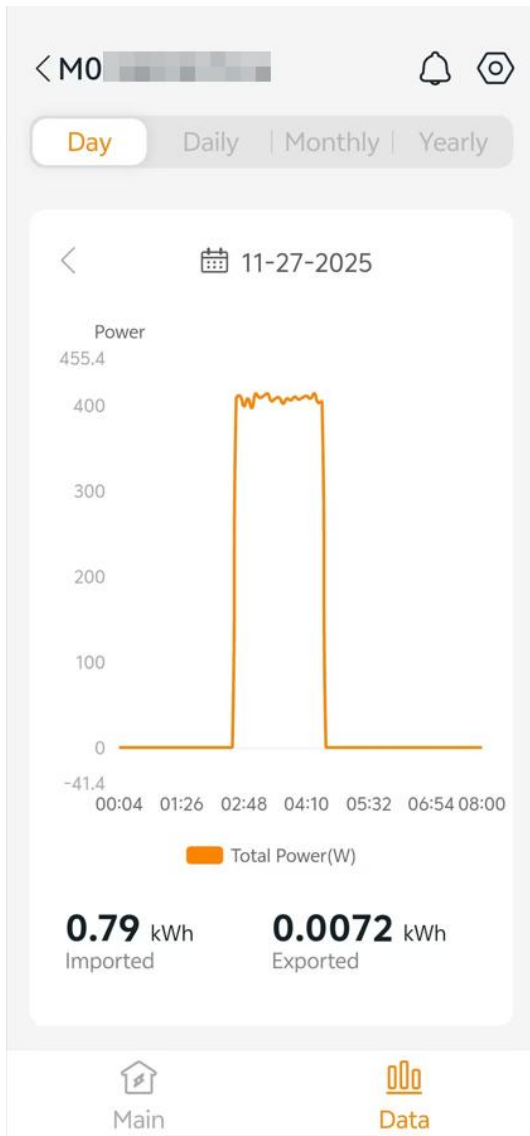
- **Live Data:** Real-time data on the grid side.
- **Network status**
  - Online:** The device is connecting the cloud service through the internet.
  - Offline:** The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.
- **Lifetime Energy:** Total data on the grid side, including exported electricity and imported electricity. Three-phase electricity meter phase-separated display.

By pressing "**alarm icon**" to check the alarm information if the device status is alarm.

By pressing "**setting icon**" to set the device.

## 2. Remote Mode

### 2.3.2.2 Data

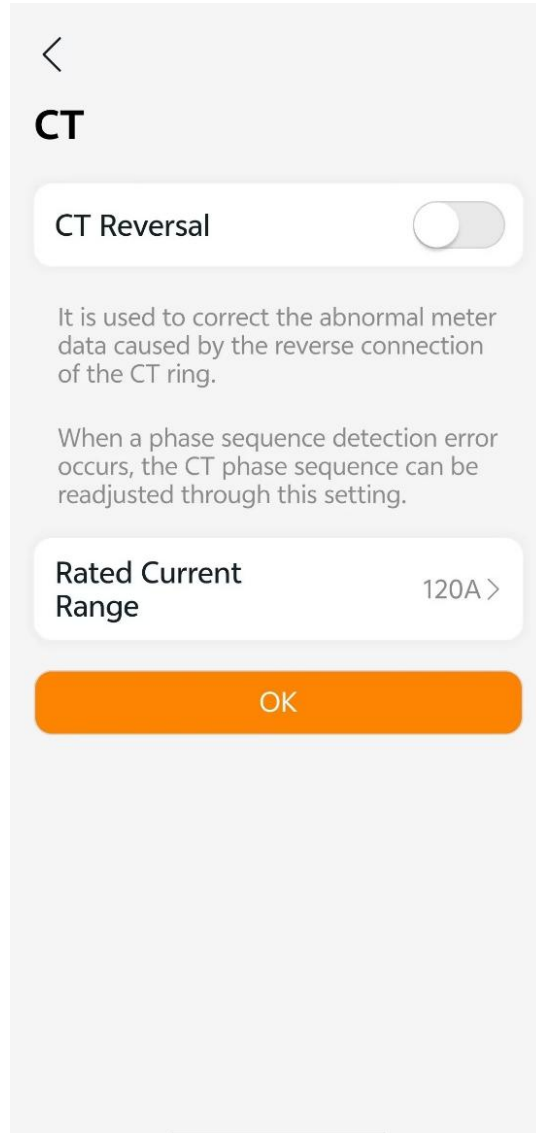
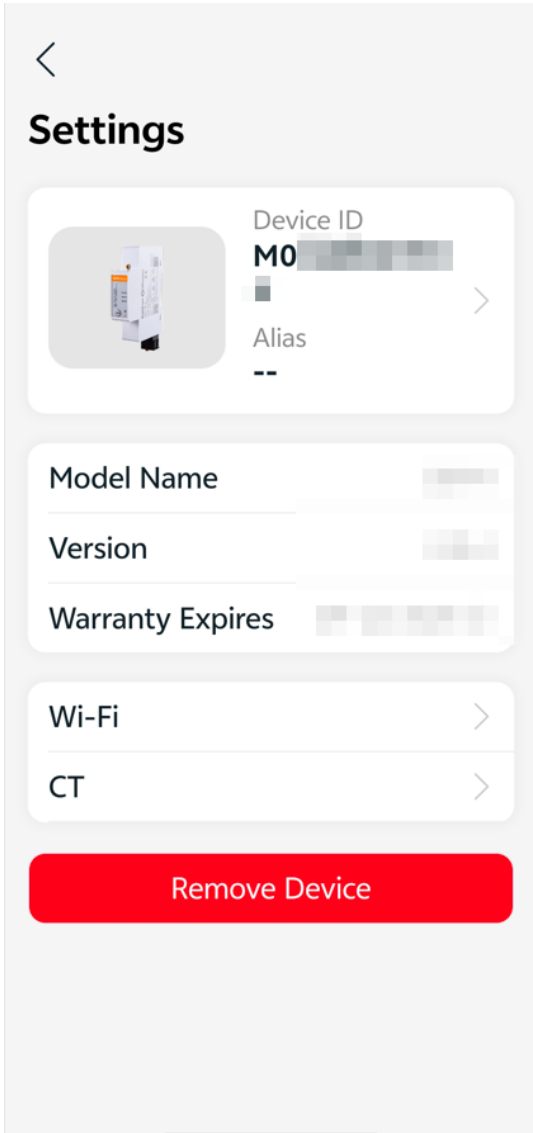


In this page, you can view the detailed data on **single device** level:

- Per 5 minutes
- Per day
- Per month
- Per year

## 2. Remote Mode

### 2.3.2.3 Settings



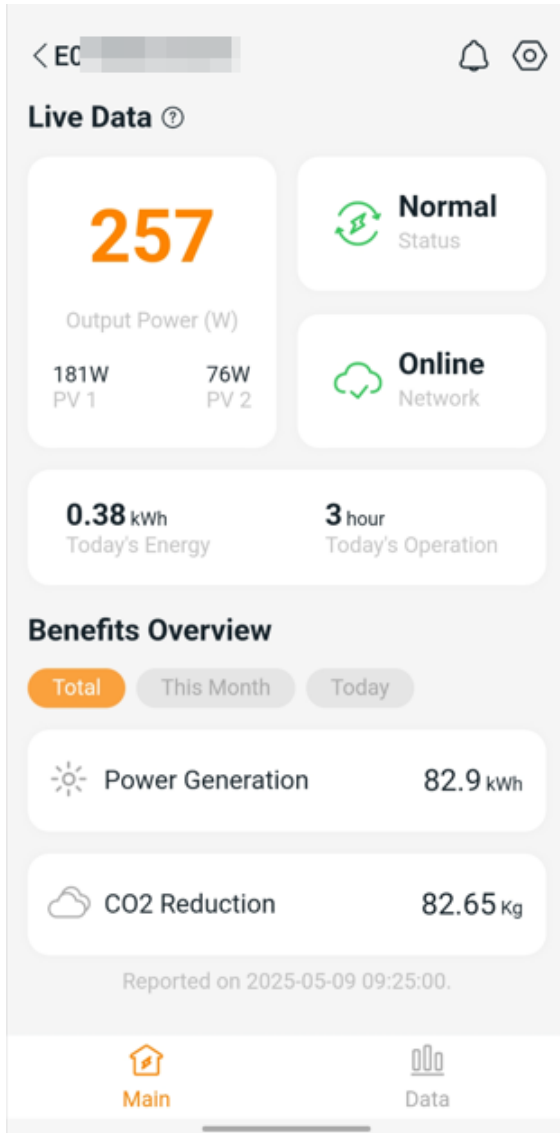
On the setting page, user can visualize

- **Device Card:** Show the serial ID and alias, click it to edit the alias.
- **Model Name:** The device model type name.
- **Version:** Show the version of device.
- **Warranty Expires:** Show the warranty date of device.
- **Wi-Fi:** Used to reset the Wi-Fi via Bluetooth.
- **CT:** Configure CT settings for proper operation.

## 2. Remote Mode

### 2.3.3 EZ1 Series Device

#### 2.3.3.1 Main



On the main page, user can visualize

- **Live Data:** The real-time data of the device in current round, including the power, energy, running time, working status and the cloud status.

- **Working status**

**Normal:** The device is working normally.

**Alarm:** The device has alarms and you need to check it.

- **Network status**

**Online:** The device is connecting the cloud service through the internet.

**Offline:** The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.

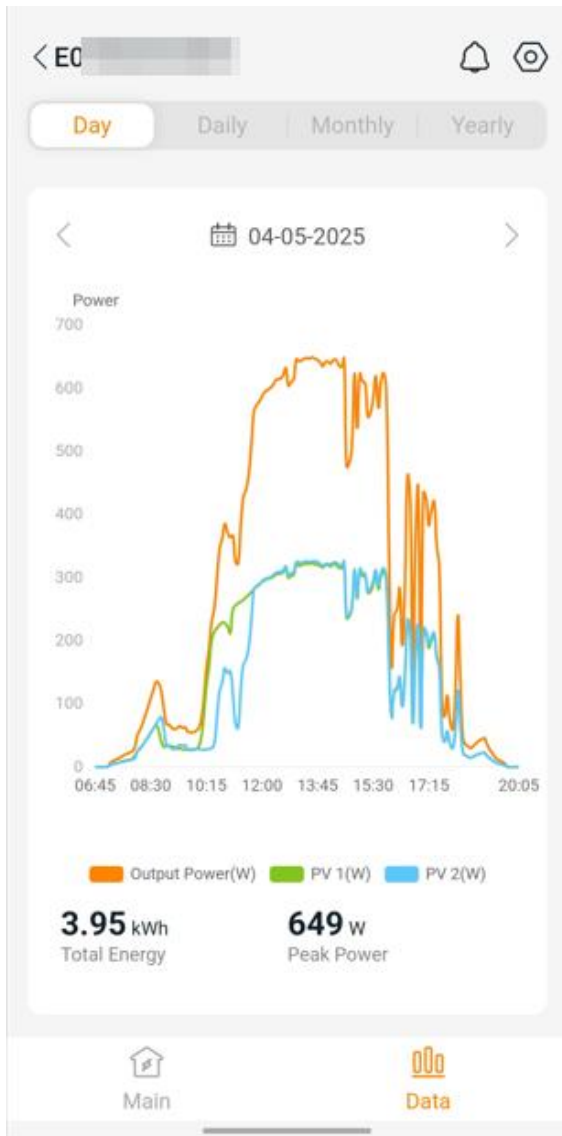
- **Benefits Overview:** The energy produced by the device and the equivalent CO2 reduction. User can switch the "Total", "This Month", "Today" to get the accumulated data for each period.

By pressing "alarm icon" to check the alarm information if the device status is alarm.

By pressing "setting icon" to set the device.

## 2. Remote Mode

### 2.3.3.2 Data

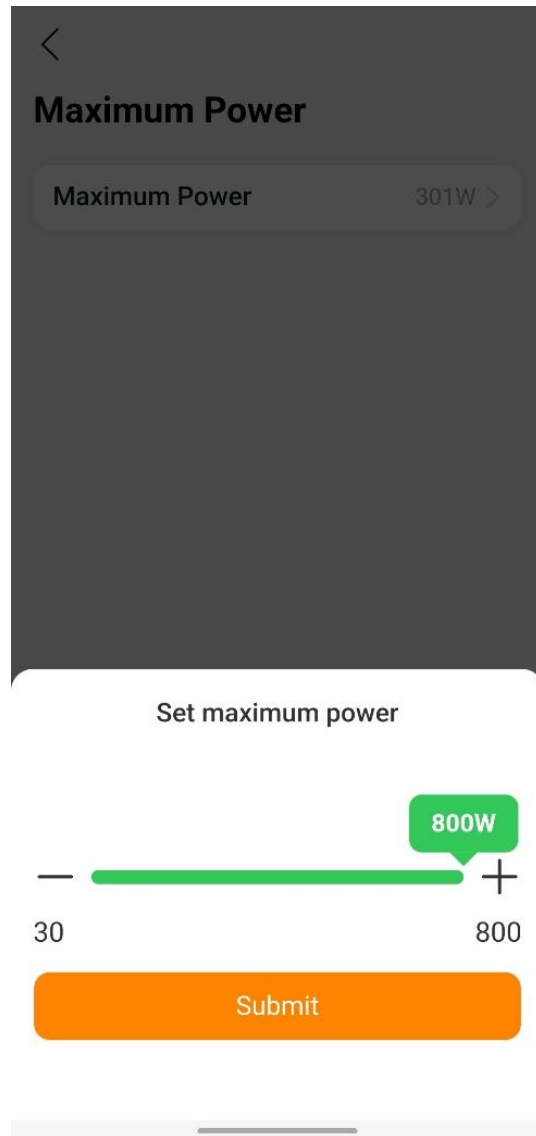
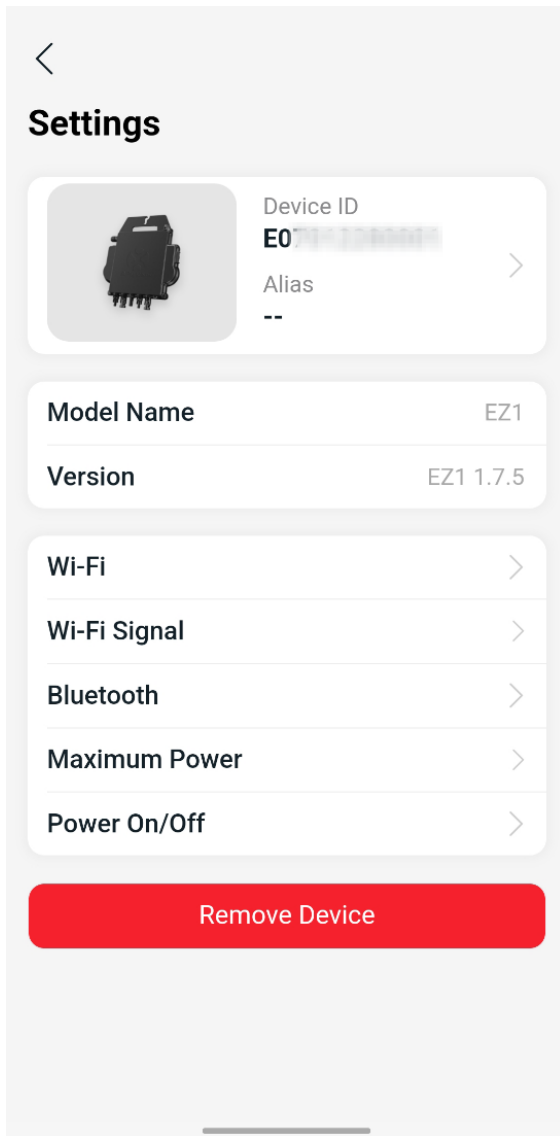


In this page, you can view the detailed data on **single device** level:

- Per 5 minutes
- Per day
- Per month
- Per year

## 2. Remote Mode

### 2.3.3.3 Settings



On the setting page, user can visualize

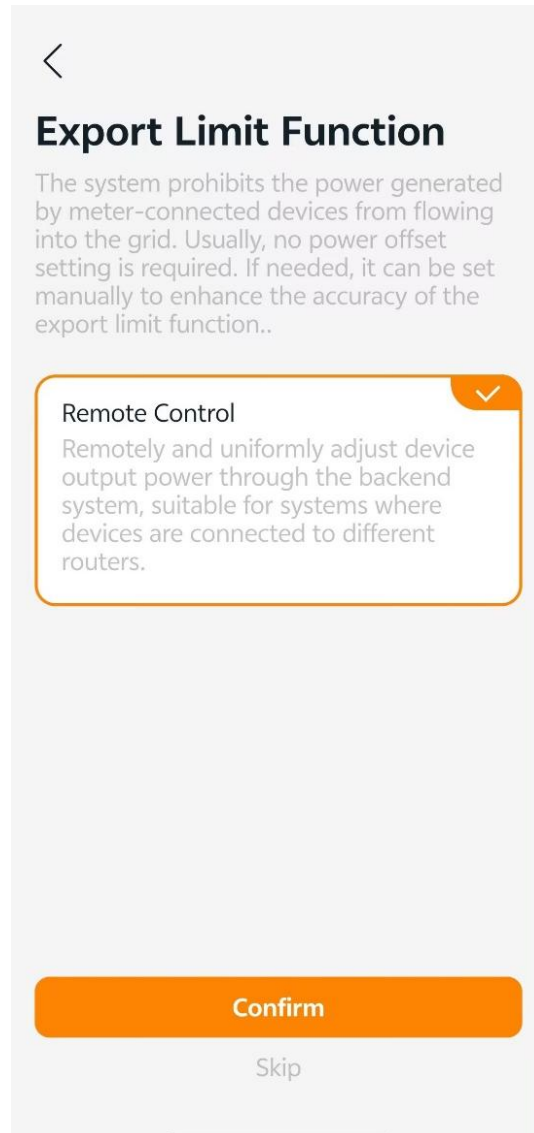
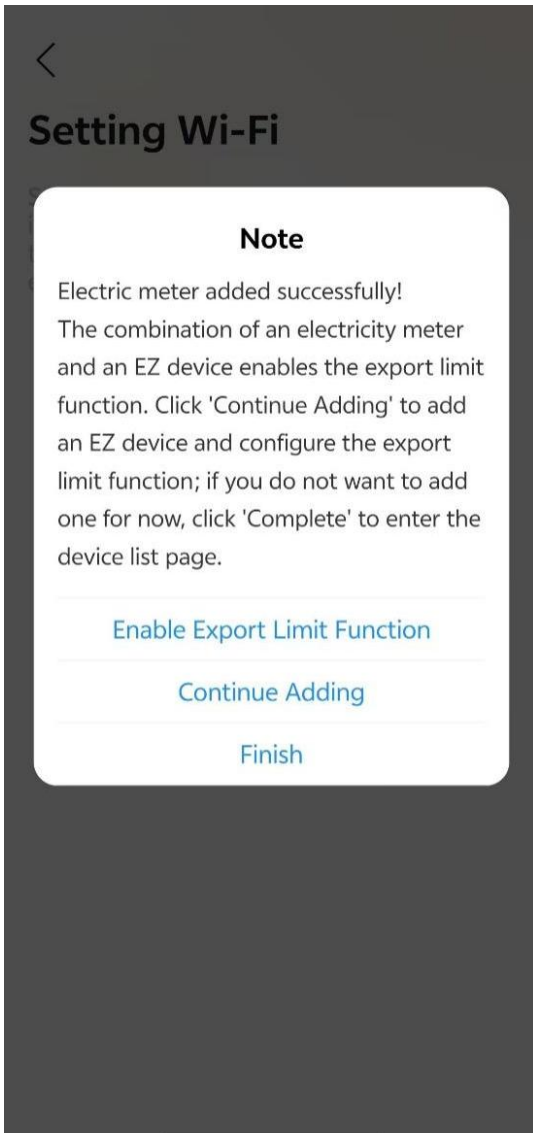
- **Device Card:** Show the serial ID and alias, click it to edit the alias.
- **Model Name:** The device model type name.
- **Version:** Display the device version.
- **Warranty Expires:** Show the warranty date of device.
- **Wi-Fi:** Used to reset the Wi-Fi via Bluetooth.
- **Wi-Fi Signal:** Used to detect Wi-Fi signal strength.
- **Bluetooth:** Lock the Bluetooth of the device for security.
- **Maximum Power:** You can view the current maximum power and click to set it. Drag the slider to set the maximum power, between 30W-800W. You can also click the "+" and "-" buttons to adjust, and click "**Submit**" to send it to the device.
- **Power On/Off:** The device status is displayed and the device can be switched on and off by remote control.

## 2. Remote Mode

### 2.4 Export Limit Function

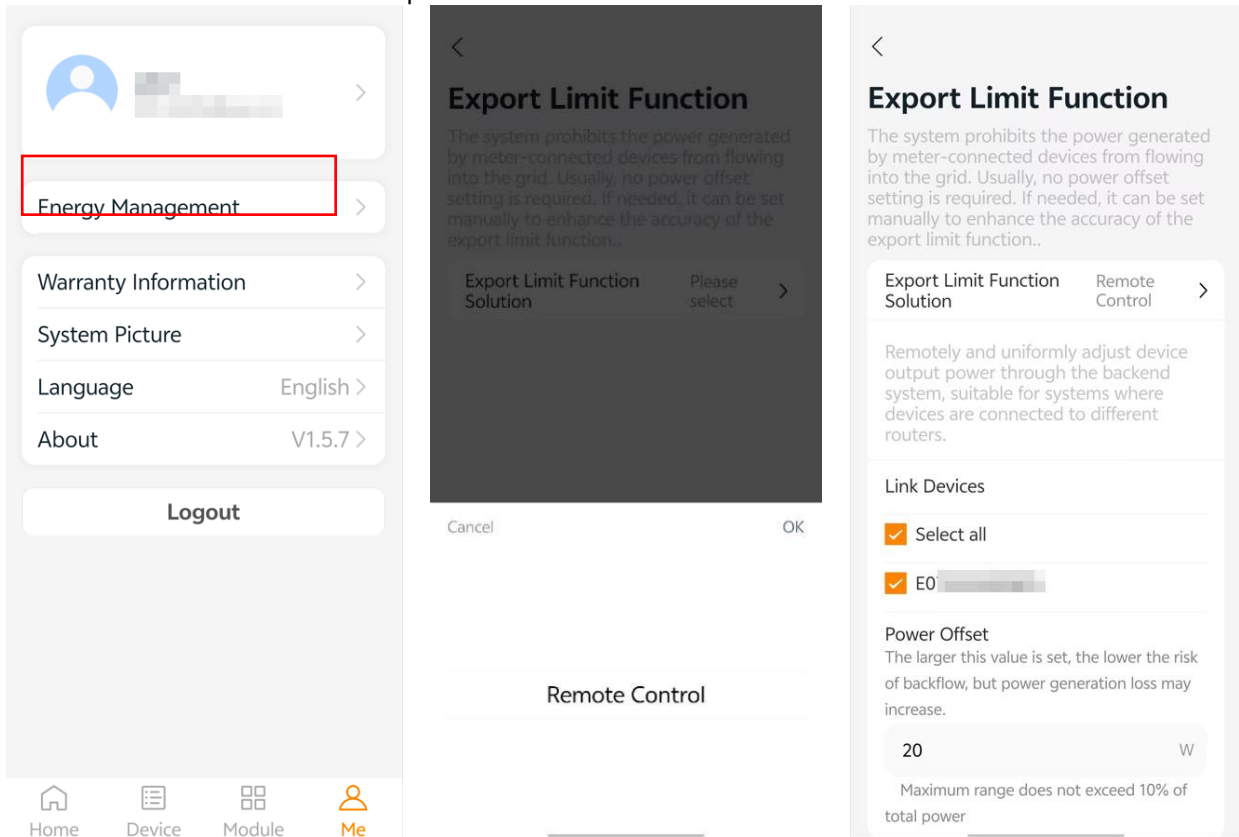
If your account has added an electricity meter, you can enable the export limit function in two ways.

(1) When both an electricity meter and EZ devices are bound to your account, a guide page with the option to enable export limit function will pop up after the binding is completed. You can enable the export limit function from here, provided that all devices in your account are online.

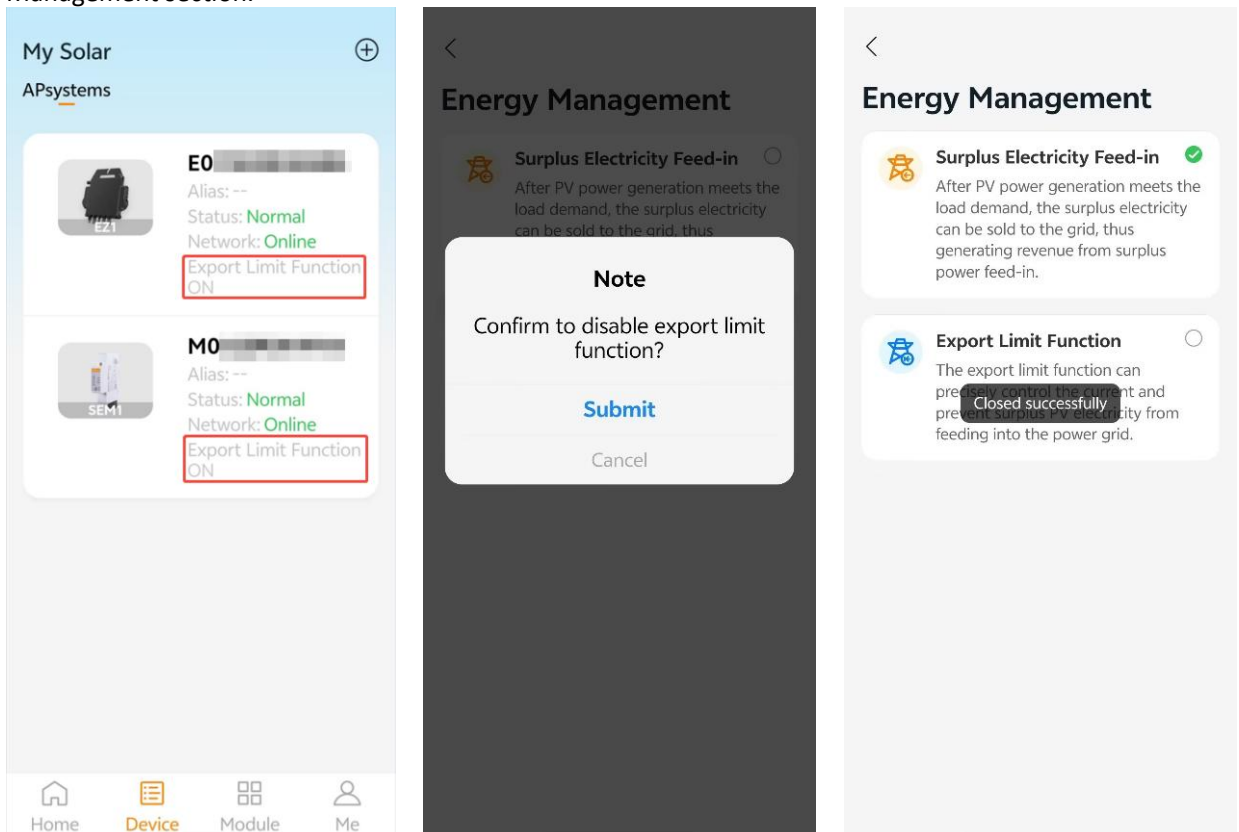


## 2. Remote Mode

(2) Me -> Energy Management -> Export Limit Function -> Remote Control -> Select Devices and Input Power Offset -> Click Confirm to Enable Export Limit Function

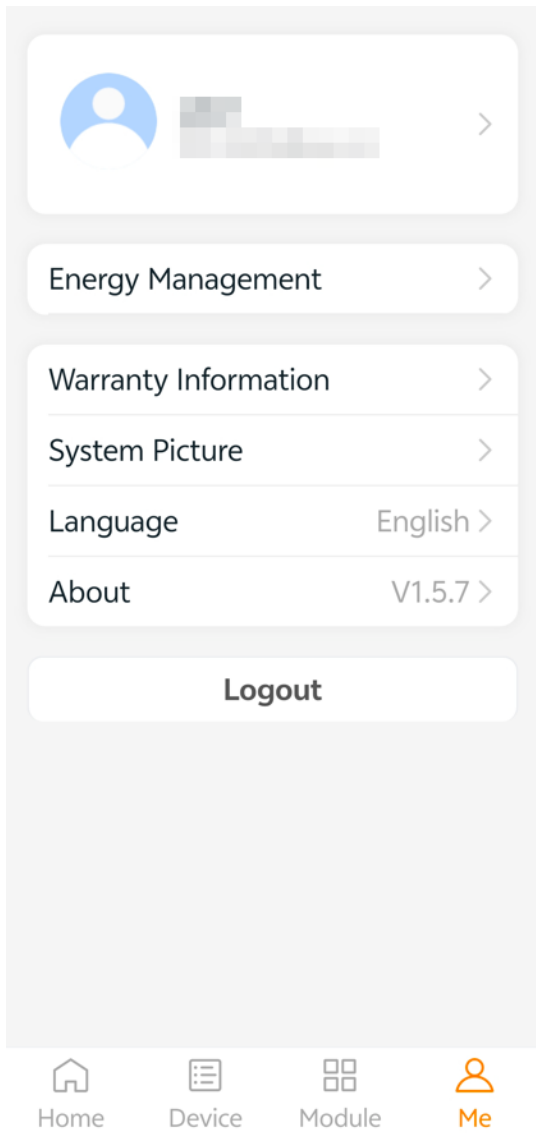


After enabling the export limit function, you can view the export limit status of your devices on the device list page. If you want to disable the export limit function, simply select "Surplus Electricity Feed-in" in the Energy Management section.



## 2. Remote Mode

### 2.5 Manage Your Information

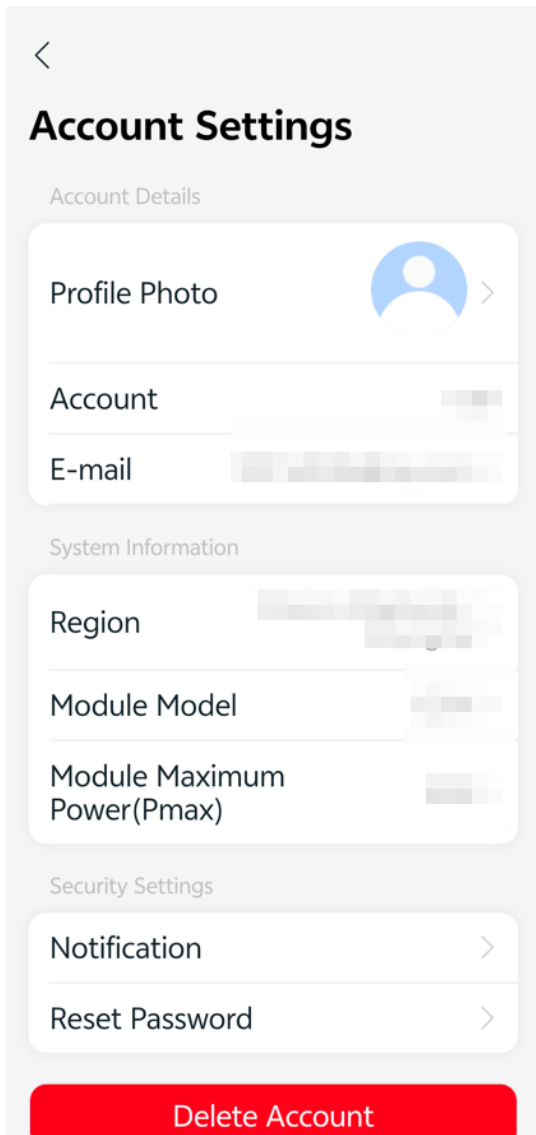


In this page, you can get the account and APP information, and you can also reset the account information.

- **Account Card:** View the account information and reset it.
- **Energy Management:** Turn on or turn off the export limit function.
- **Warranty Information:** Check the device's warranty status and warranty expiration date.
- **System Picture:** System pictures can be uploaded.
- **Language:** Change the APP language.
- **About:** Get the APP information.
- **Logout:** Logout from APP.

## 2. Remote Mode

### 2.5.1 Modify Account Information

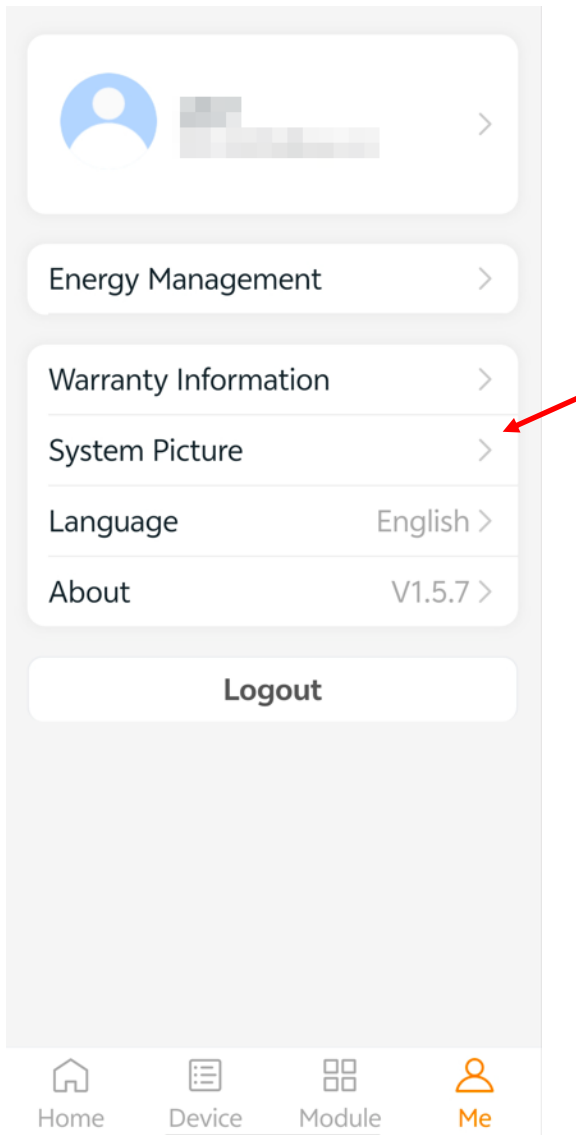


In this page, you can view the account information and reset it.

- **Account Details:** Include the account profile photo, name and email.
- **System Information:** Include the region, module model and module maximum power (Pmax), and click to edit.
- **Security Settings:** Change the email notification or reset password.
- **Delete Account:** Delete account if no longer required.

## 2. Remote Mode

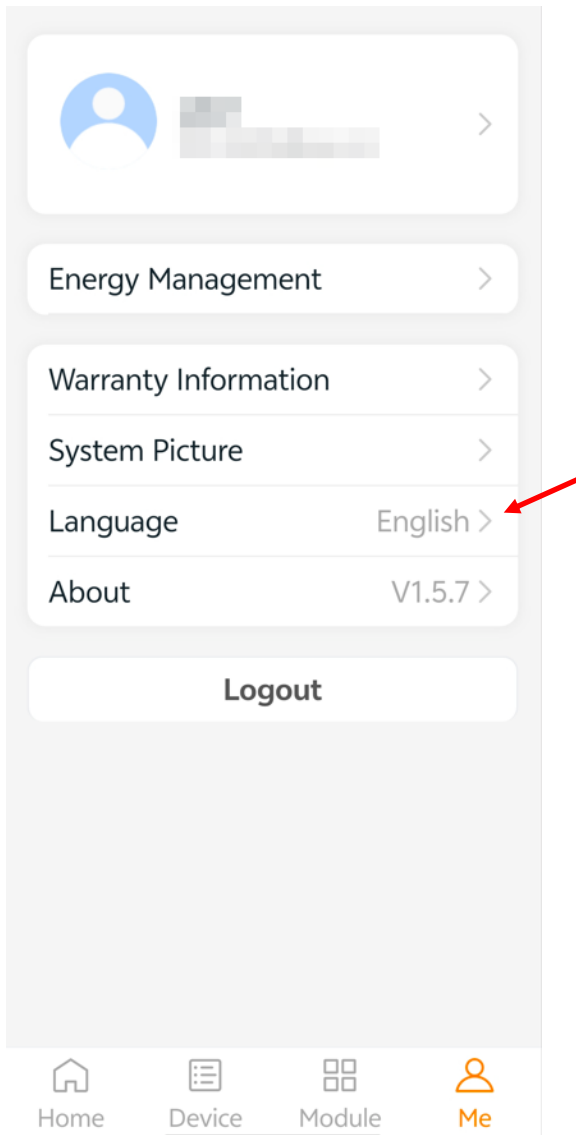
### 2.5.2 System Picture



You can upload system images to customize and enhance your homepage.

## 2. Remote Mode

### 2.5.3 Change APP Language



#### Note

APP supports English, 中文, 繁體中文, Deutsch, Français, Español, Nederlands, Polski, Português, Italiano, so far, using the system language of the phone as its default language. If the system language is not included within these 10 languages, Deutsch is used as default.

## 3. Direct Connect Mode

There are two (2) steps involved in connecting a new device for Direct Connect.

Step 1: Connect the device

Step 2: Select the Wi-Fi (Optional)

### 3.1 Connect the device

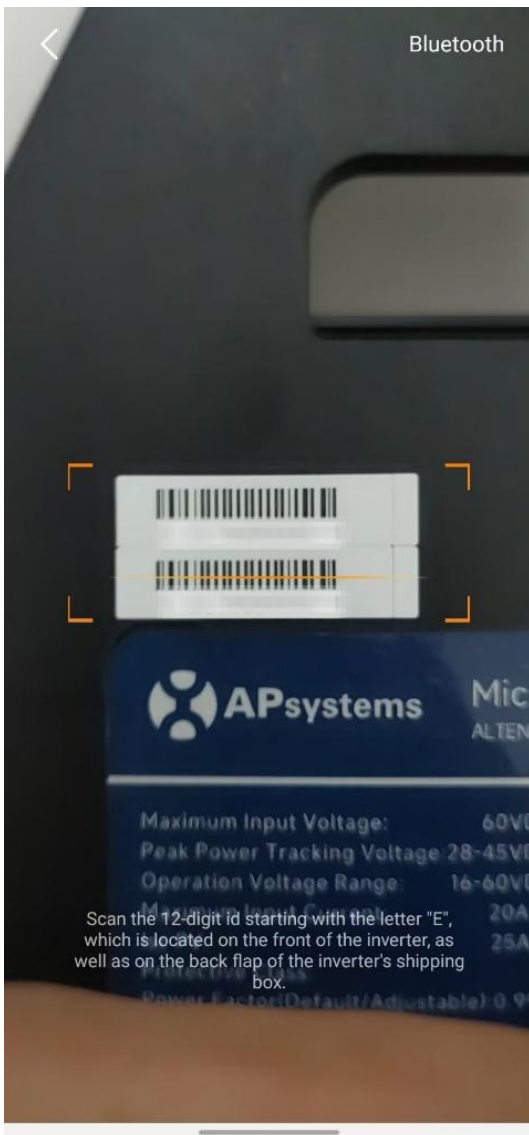
There are two (2) methods to connect a device.

Method 1: [**Scan**], Scan the device's barcode or QR code to connect.

Method 2: [**Bluetooth**], select the device in Bluetooth searching list to connect.

#### ● Scan

On the scanning page, a scan box is displayed. Scan the device ID to connect.



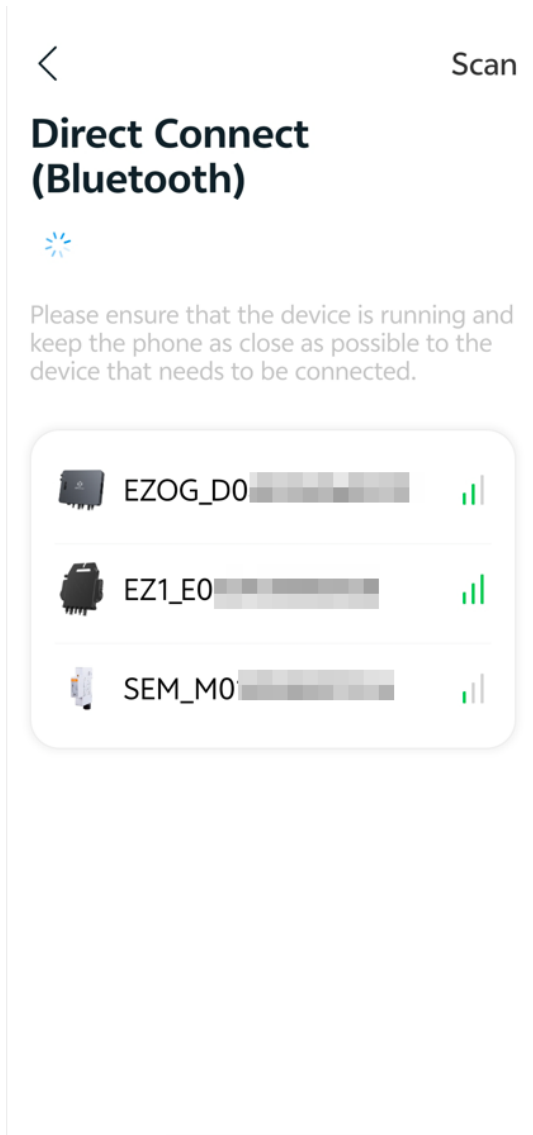
#### Note

Each device has a unique ID which is located on the front of the device, as well as on the back flap of the device's shipping box.

## 3. Direct Connect Mode

### ● Bluetooth

On the Bluetooth page, a device list is displayed. Select the device to connect.



### Note

- When connecting, please ensure that the device is running and keep the phone's Bluetooth turned on
- If the distance between the phone and the device is too far or there are obstacles, which may cause connection failure, please try to keep the phone close enough to the device.

## 3. Direct Connect Mode

### 3.2 Select the Wi-Fi

- Select the Wi-Fi to connect, and the device can get the remote services.

You can also skip the network configuration. However, in this case, the device will not upload data to the cloud. If your account is bound to this device, you will be unable to view the data and settings of this device in your account.

< Skip

### Wi-Fi Configuration

Dear customer, please connect the device to the Wi-Fi, we will configure and optimize the device remotely to provide better service and ensure your photovoltaic system running stably.

The device only supports 2.4GHz Wi-Fi.

[Wi-Fi Name] ⇅

Wi-Fi Password 👁

In most cases, the failure is caused by the wrong password. Please double-check the password entered. Do not enter the password if the Wi-Fi do not have one.

Submit

#### Note

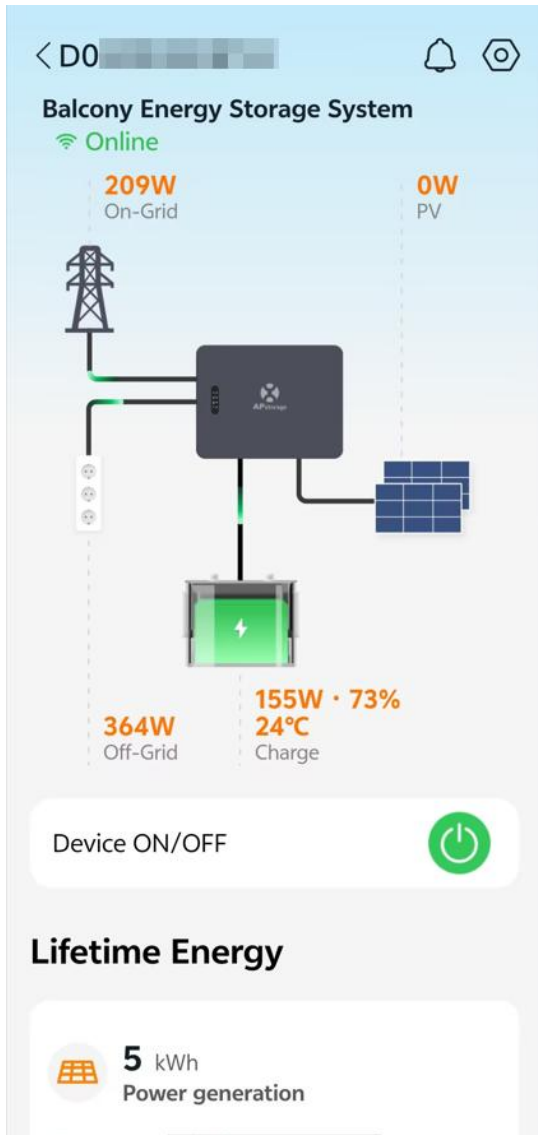
If the device currently cannot set up the Wi-Fi, you can skip it and set it up in the future on the settings page. It is recommended to connect to the Wi-Fi to obtain remote services and register account to get warranty services.

## 3. Direct Connect Mode

### 3.3 Monitor & Control

#### 3.3.1 EZHI Series Device

##### 3.3.1.1 Main



On this page, user can visualize

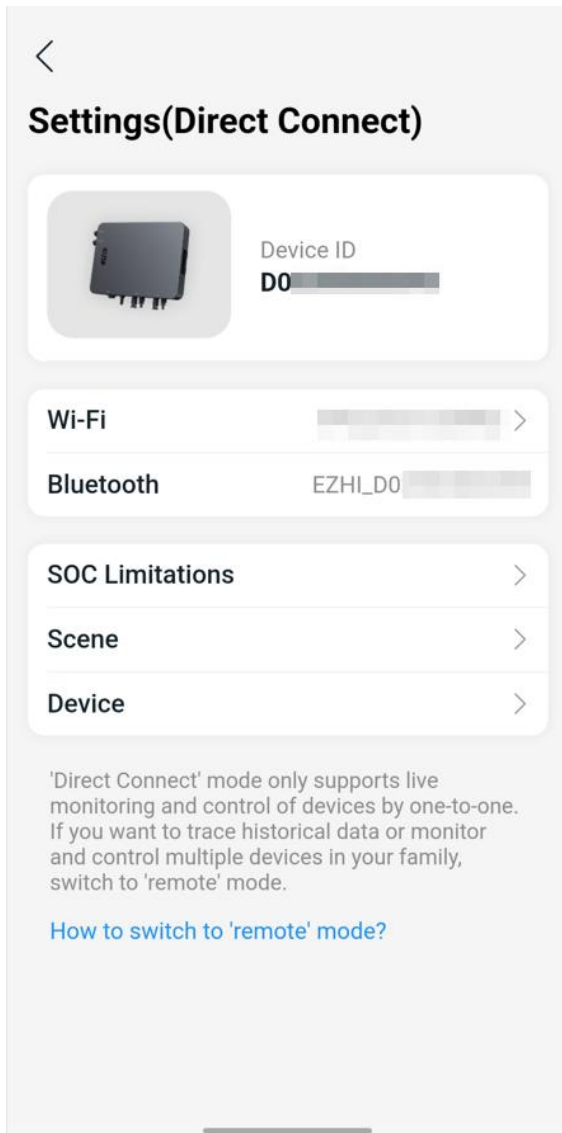
- **Live Data:** The real-time data of the device, including the input/output power according to the PV side, battery side, on-grid side and off-grid side, work mode and scene.
- **Device ON/OFF:** Device can be turned on or off.
- **Lifetime Energy Overview:** The lifetime energy for the production side, consumption side and battery side.
- **Battery Status:** The status information of battery.

By pressing “*alarm icon*” to check the alarm information if the device status is alarm.

By pressing “*setting icon*” to set the device. The setting page is shown below.

## 3. Direct Connect Mode

### 3.3.1.2 Settings



On the setting page, user can visualize

- **Device ID:** The serial ID of the device.
- **Wi-Fi:** View or switch the network of the device.
- **Bluetooth:** The Bluetooth name of the device.
- **SOC Limitations:** Set the maximum SOC and minimum SOC.
- **Scene:** Switch the scene and set the corresponding work mode.
- **Device:** The details information and operations of the device and battery, user can get the serial ID and mac address, upgrade the software.



#### Note

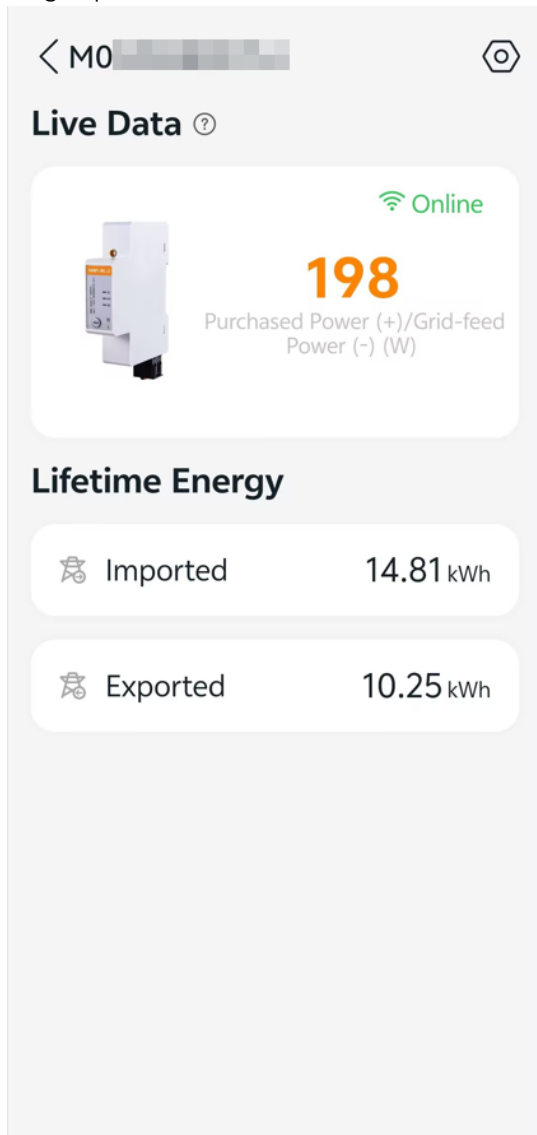
Click "**How to switch to 'remote' mode**" if you want to register an account and monitor your device wherever you are.

## 3. Direct Connect Mode

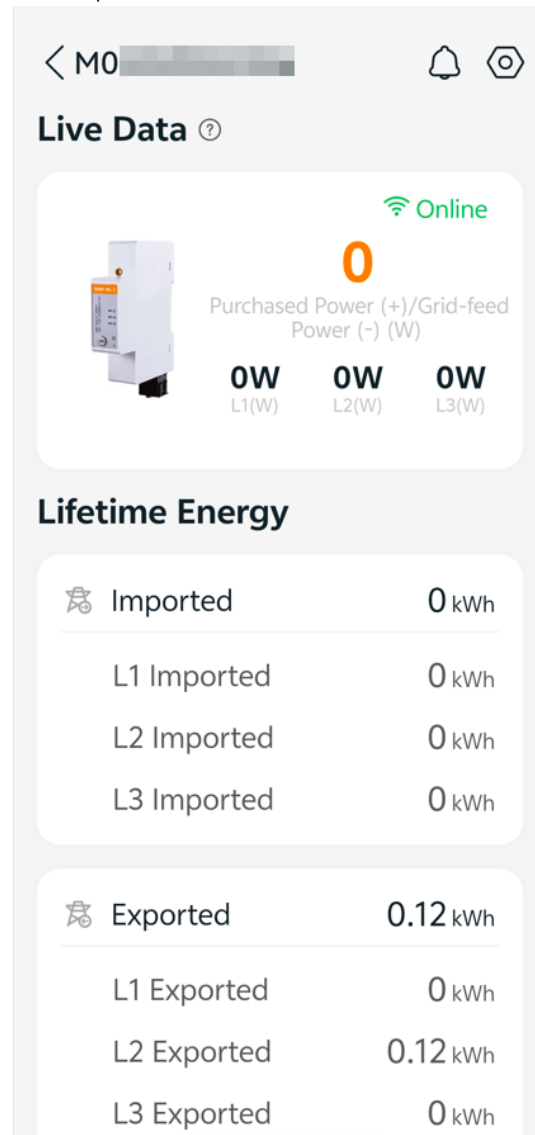
### 3.3.2 APmeter Series Device

#### 3.3.2.1 Main

Single-phase smart meter



Three-phase smart meter



On this page, user can visualize

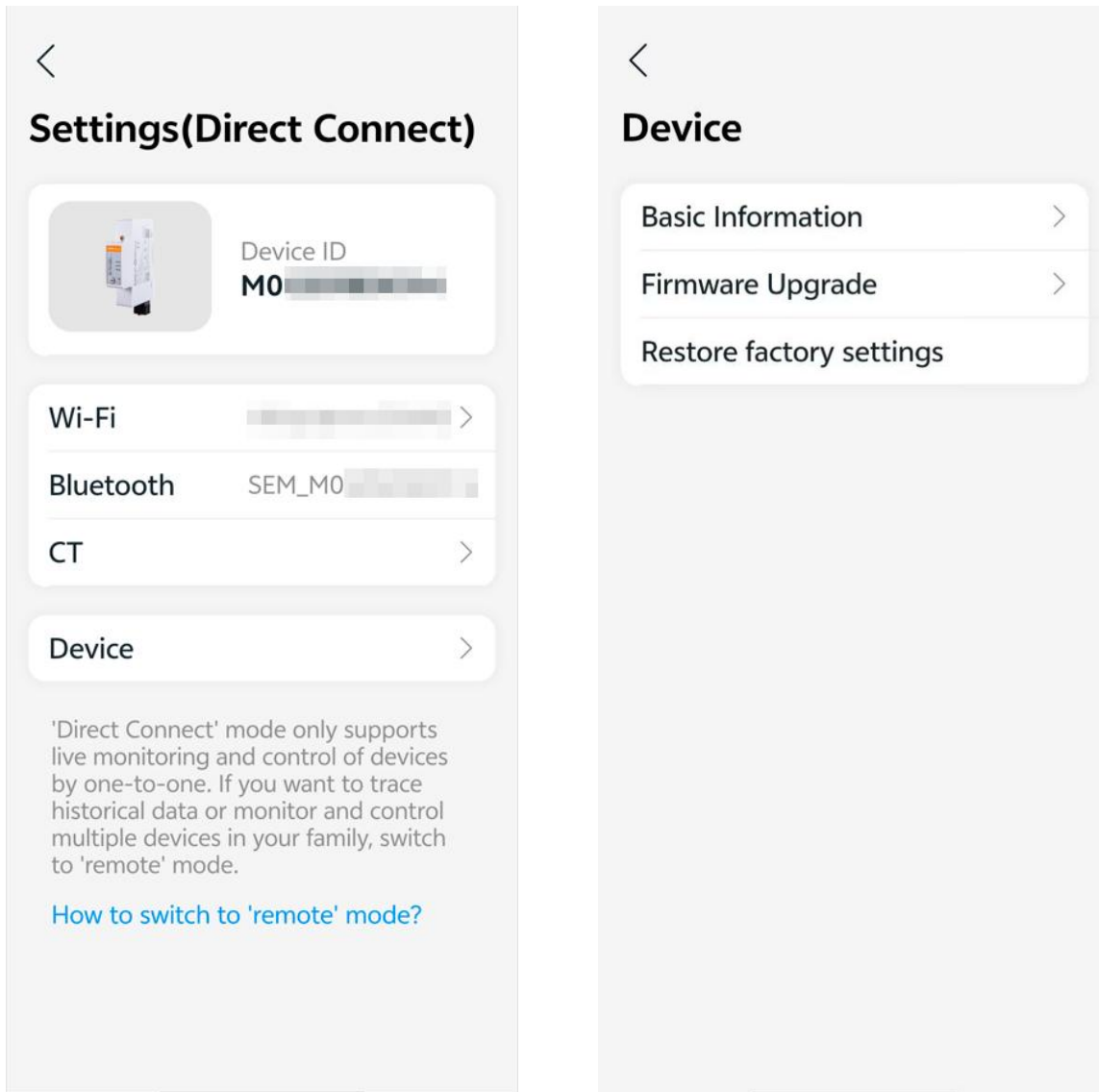
- **Live Data:** Real-time data on the grid side.
- **Network status**
  - Online:** The device is connecting the cloud service through the internet.
  - Offline:** The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.
- **Lifetime Energy:** Total data on the grid side, including exported electricity and imported electricity. Three-phase electricity meter phase-separated display.

By pressing "**alarm icon**" to check the alarm information if the device status is alarm.

By pressing "**setting icon**" to set the device.

## 3. Direct Connect Mode

### 3.3.2.2 Settings



On the setting page, user can visualize

- **Device ID:** The serial ID of the device.
- **Wi-Fi:** View or switch the network of the device.
- **Bluetooth:** The Bluetooth name of the device.
- **CT:** Configure CT settings for proper operation.
- **Device:** The details information and operations of the device, user can get the serial ID and mac address, upgrade the software, and restore factory settings.

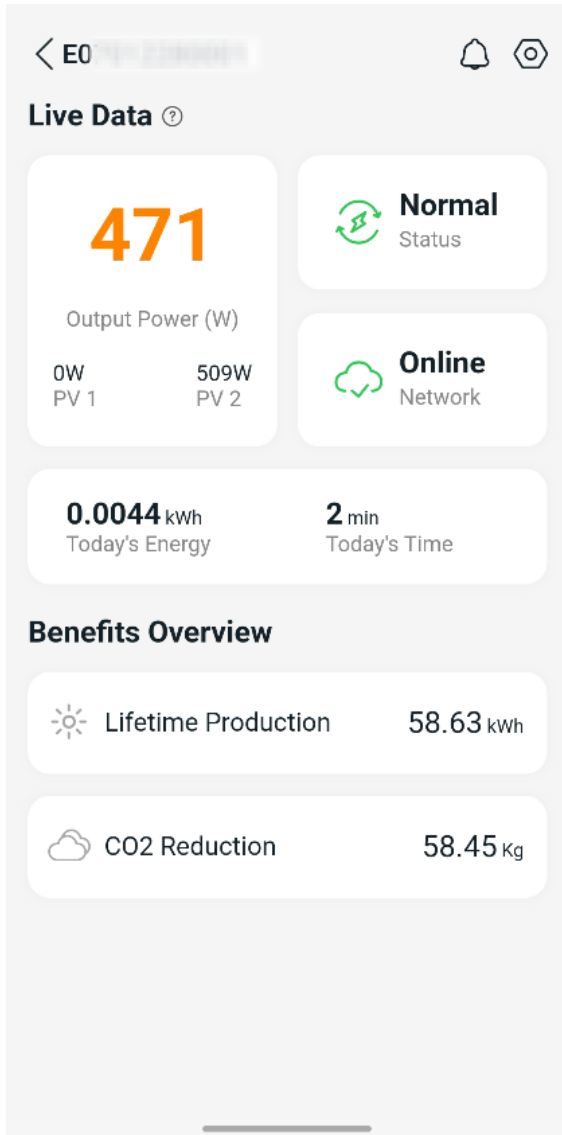
#### Note

Click "**How to switch to 'remote' mode**" if you want to register an account and monitor your device wherever you are.

## 3. Direct Connect Mode

### 3.3.3 EZ1 Series Device

#### 3.3.1.1 Main



On this page, user can visualize

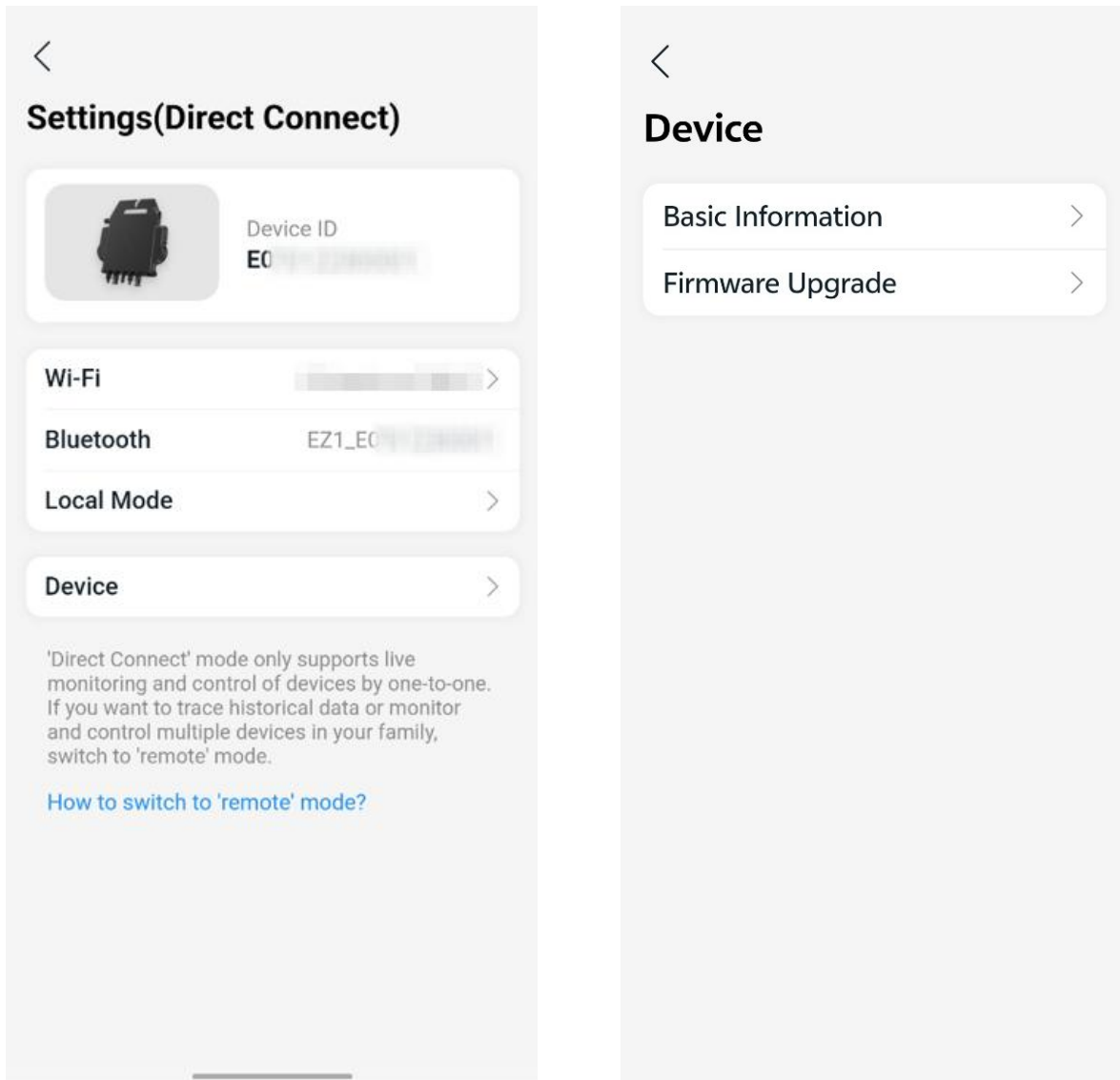
- **Live Data:** The real-time data of the device in current round, including the output power, energy, running time, working status and the cloud status.
- **Working status**  
**Normal:** The device is working normally.  
**Alarm:** The device has alarms and you need to check it.
- **Network status**  
**Online:** The device is connecting the cloud service through the internet.  
**Offline:** The device is not connecting the cloud service through the internet, maybe the device is not connected the Wi-Fi or the router is down.
- **Benefits Overview:** The lifetime energy produced by the device and the equivalent CO2 reduction.

By pressing "**alarm icon**" to check the alarm information if the device status is alarm.

By pressing "**setting icon**" to set the device. The setting page is shown below.

## 3. Direct Connect Mode

### 3.3.1.2 Settings



On the setting page, user can visualize

- **Device ID:** The serial ID of the device
- **Wi-Fi:** The Wi-Fi Name device connected. If the device does not connect the Wi-Fi, it will show “Not Connected”. Click it to enter the Set Wi-Fi page to switch Wi-Fi.
- **Bluetooth:** The Bluetooth name of the device
- **Local Mode:** The other devices within the same LAN can communicate with the device via Local API in the same LAN, can read and control the device.
- **Device:** The details information and operations of the device, user can get the serial ID and mac address, upgrade the software.



#### Note

Click “**How to switch to ‘remote’ mode**” if you want to register an account and monitor your device wherever you are.

## 4. Market Contact Information

### APsystems Jiaxing (Headquarter)

No.3535 LingGongTang Road, Jiaxing 314000, China  
Phone: +86 -573-83986967  
Email: info@APsystems.cn  
Web: APsystems.cn

### APsystems Shanghai

Rm. 511-2, Building B, Hongqiao Vantone Center,  
333 Su Hong Road, Minhang District, Shanghai 201106, P.R.C  
Phone: +86-21-33928205  
Email: info@APsystems.cn  
Web: APsystems.cn

### APsystems EMEA

Karspeldreef 8, 1101 CJ  
Amsterdam  
Phone: +31 (0)85 3018499  
Email: info.emea@APsystems.com  
Web: <https://emea.apsystems.com/>

### APsystems USA

8627 N. Mopac Expy, Ste 150  
Austin, TX 78759  
United States of America  
Phone: 1-844-279-8600  
Email: info.usa@APsystems.com  
Web: <https://usa.apsystems.com/>

### APsystems LATAM

Av. Lázaro Cárdenas #3422 int 604,  
Col. Chapalita. Zapopan, Jalisco. C.P. 45040. México  
Phone: 01(33) 3188 4604  
Email: info.latam@APsystems.com  
Web: <https://latam.apsystems.com/>

### APsystems France

22 avenue Lionel Terray, 69330 Jonage, France  
Phone: 031-10-2582670  
Email: info.emea@APsystems.com  
Web: <https://emea.apsystems.com/>

### APsystems Canada

No.3535 LingGongTang Road, Jiaxing 314000, China  
Phone: +86 -573-83986967  
Email: info.canada@APsystems.com  
Web: canada.APsystems.com

## 4. Market Contact Information

### **APsystems APAC**

No.3535 LingGongTang Road, Jiaxing 314000, China

Phone: +86-573-83986967

Email: [info.apac@APsystems.com](mailto:info.apac@APsystems.com)

Web: [global.APsystems.com](http://global.APsystems.com)

### **APsystems AUNZ**

Address: Suite 50/Level 1, 285a Crown Street, Surry Hills NSW 2010, Australia

General inquiries : 0290077984

Technical support : 0282838050

Email: [info.aunz@APsystems.com](mailto:info.aunz@APsystems.com)

Web: <https://apssystem.com.au/>