EONSAND
FUTURE

Eon Solar User Manual

APP Cloud Monitoring V2.0

V2.0

Contents

General

EON SOLAR is a solar energy storage management and monitoring system, allowing users to manage solar power stations and devices anytime, anywhere.

Users can access device operation status in a hierarchical and graphical manner, and visualize data and charts. When a device malfunction occurs, users will be promptly notified for quick maintenance.

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1. Install and Login APP

1.1 Installation

- **iOS System**

Step 1: Search for **EON SOLAR** in the APP Store;

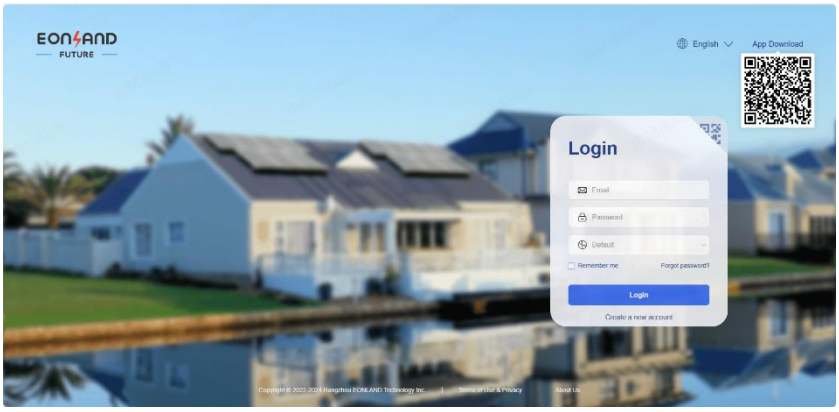
Step 2: Download and install the APP.

- **Android System**

Step 1: Log in to the website https://solar.eonlandfuture.com, click **APP Download**;

Step 2: Scan the QR Code;

Step 3: Download and install the APP.



1.2 Registration

- Step 1: Click **Register** on the login page;
- Step 2: Enter the correct Email, Country/Region, Verification Code, Password;
- Step 3: Read and check **I have read and agree *Terms of Use & Privacy Policy***;
- Step 4: Click **Finish**;
- Step 5: A pop-up **Registration successful, login now?** will appear,click **Confirm** to log in.

Note: This registration is only for regular users, for agents and installers registration please contact the administrator or existing user account of the same level or higher organization.

1.3 Login

- Step 1: Enter the correct Email and Password;
- Step 2: Click on the drop-down menu for Chinese (Simplified) to switch languages (English or other languages), default is Chinese;
- Step 3: Click **Login**, the interface will show Total Power Generation, CO2 Emissions, Return On Investment (ROI), and Revenue;
- Step 4: Click **Enter** to access the overview homepage.

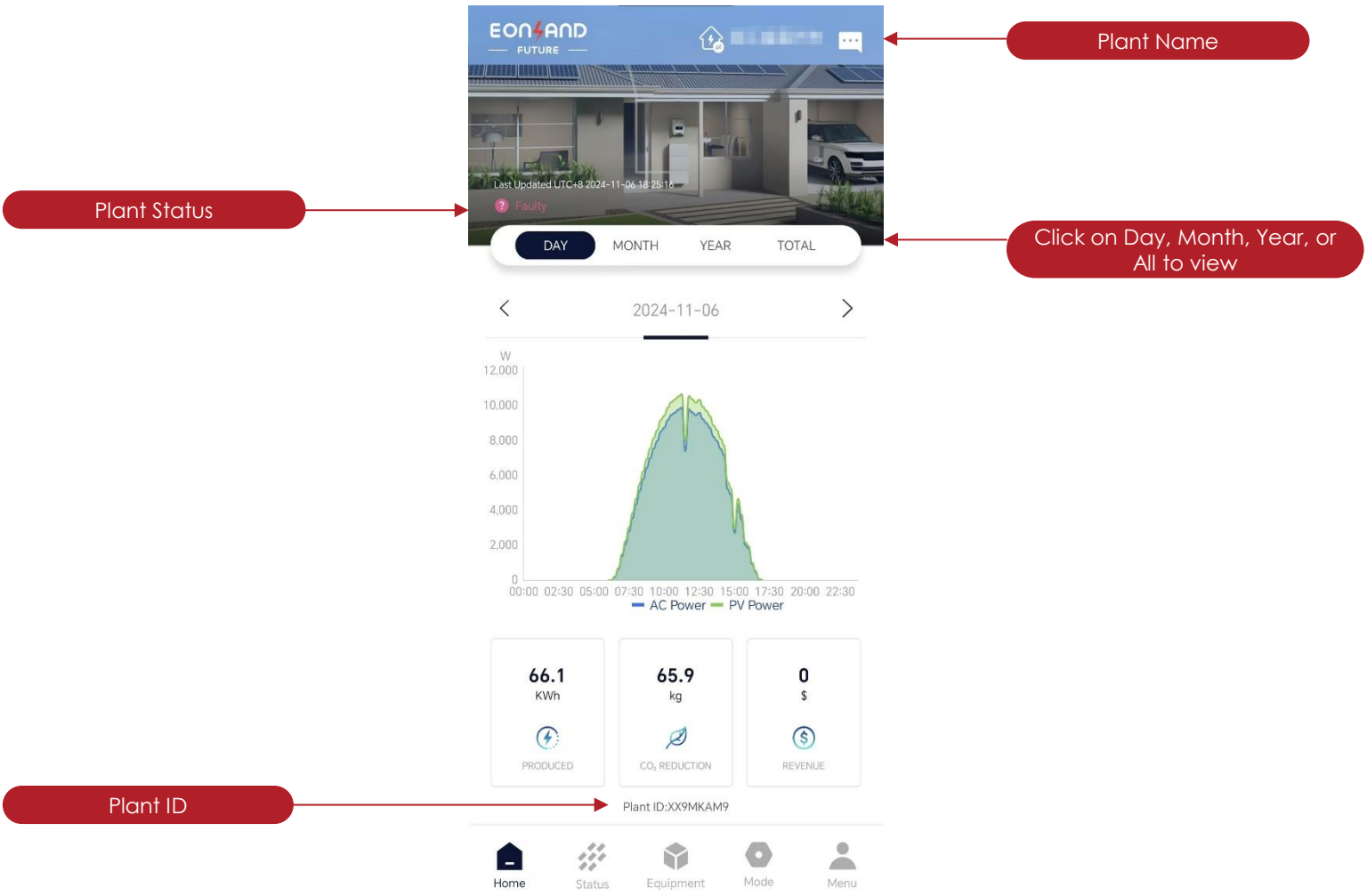
1.4 Forget Password

- Step 1: Click **Forget Password** on the login page;
- Step 2: Enter old password;
- Step 3: Enter new password;
- Step 4: Enter confirm password.

Note: Password must be at least 6 characters.

2. Overview

Information Overview	Data Name
Weather Overview	• Daily Weather • Daily Temperature
Photovoltaic Overview	• Power Generation • CO 2 Emission Reduction • Revenue
Plant Overview	• Plant Status (Online, Offline, Fault) • Plant Name, Plant ID , Last Update Time • Total power generation data chart for this plant (can view data charts for year, month, day, or all)



Note: Users without a plant need to first create a plant in order for the **Home** and **Status** page to display accordingly.

3. Plant Management

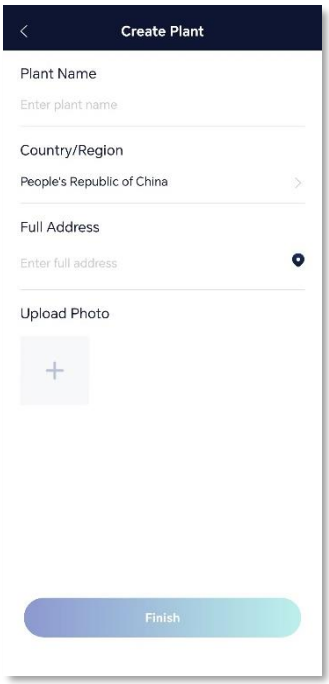
A plant is composed of sub-devices such as microinverters and gateways (required). Click in the top right corner of the **Home**, **Status**, **Equipment** and Mode pages.

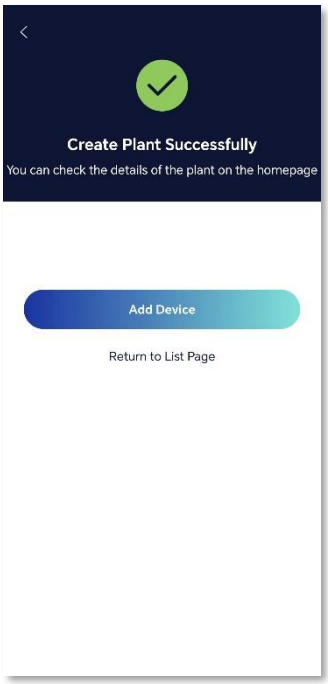
Upon entering the plant page, you can add new plant, switch between plants, share plants, and search for plants on this page. Plants information can view the plant name, the country / region to which the plant belongs, and the email of the plant's owner ('self-owned' indicates that the station belongs to oneself).

3.1 Add The Plant

Add new power station

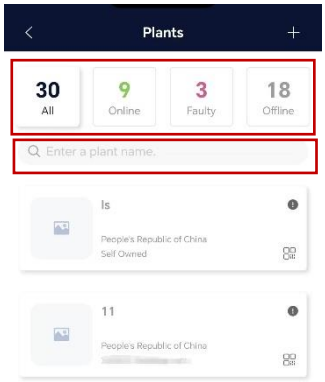
- Step 1: Click the plant switch icon ;
- Step 2: Click the top right corner of the **Plants** page, click **+**;
- Step 3: After clicking **+**, fill in the plant information; **Plant Name** and **Country / Region** are required fields;
- Step 4: Click **Finish,** a pop-up will appear indicating successful creation of the plant. Click **Add Device** to add devices to the plant, click **Return to List Page** to go back to the plant page.

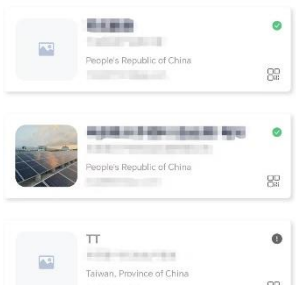




3.2 Query The Plant

In the plant page, users can search for plants based on two keywords: plant name and plant status. The search for plant status includes online, faulty, offline, and all (including all plants).

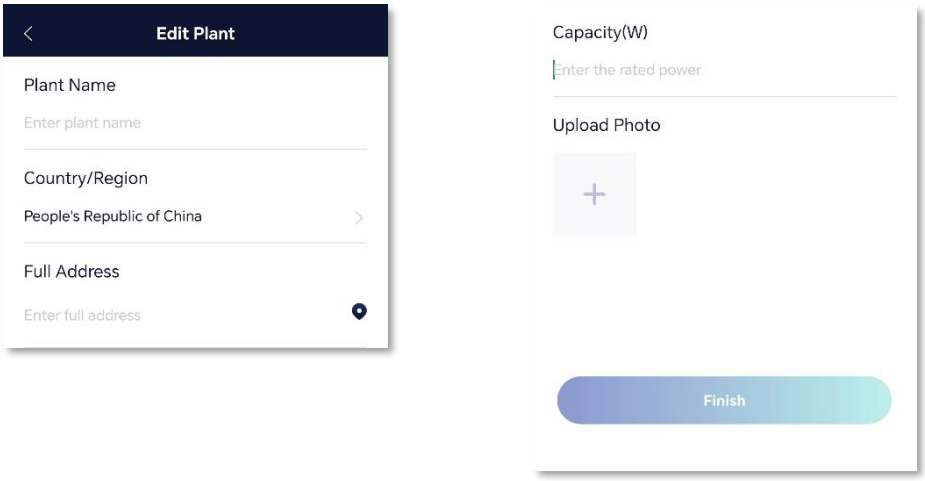




Note: When querying the power station name, select **All** in the power station status.

3.3 Edit The Plant

- Step 1: On the **Plant** page, select the plant that needs to be modified;
- Step 2: Swipe left on the power plant to display the **Edit**;
- Step 3: Click **Edit** to enter the **Edit Plant** page;
- Step 4: Fill in the information of the power plant to be modified;
- Step 5: Click **Finish**.



3.4 Delete The Plant

- Step 1: On the plant page, select the plant to be deleted;
- Step 2: Swipe left on the plant to display the **Delete**;
- Step 3: Click **Delete**, **Confirm Delete?** prompt box will appear;
- Step 4: Click **Confirm** to complete the deletion.

3.5 Share The Plant

- Step 1: Select the plant to be shared;
- Step 2: Click right corner of the plant to be shared;

- Step 3: The QR Code will appear for users to scan and share.

3.6 Switch The Plant

- Step 1: Click Plant switch icon ;
- Step 2: Click the Plant to be switched, after clicking, the plant on the **Home** page will switch to the plant, and users can view the data of the Plant (see **2. Overview**), the corresponding equipment will also switch to the equipment of the plant.

4. Equipment Management

Equipment include Microinverters and Gateways, Microinverters should be added under the corresponding Gateway.

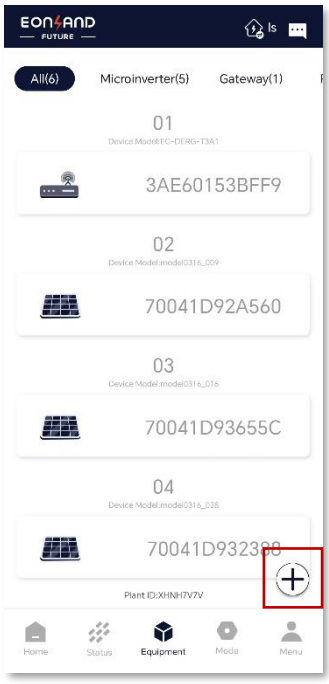
4.1 Add The Equipment

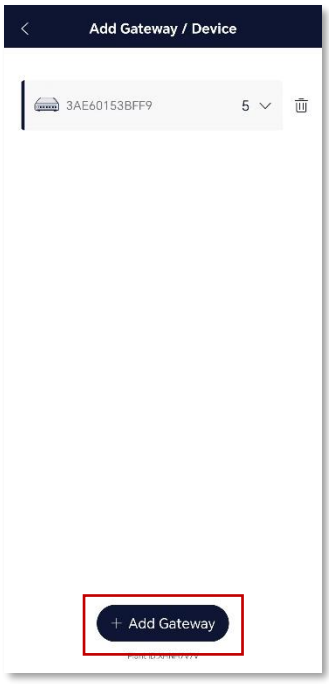
Method 1

- Step 1: Click **Equipment** listed in the main directory;
- Step 2: Click ⊕ at the bottom right of the **Devices** page;
- Step 3: Click **+ Add Gateway** at the bottom of the **Add Gateway / Device** page; Or click **Manual Input** to manually input the SN of the Gateway and click **Confirm** after checking;
- Step 4: By default, scan the QR Code for adding, then click **Confirm**;
- Step 5: After adding the gateway, ⊕ will appear below the gateway and click;
- Step 6: By default, scan the QR Code for adding, then click **Confirm**; Or click **Manual Input** to manually input the SN of the microinverter, and then click **Confirm** after checking that it is correct.

Method 2

- Step 1: Click , enter the **Home** page;
- Step 2: Select the plant to add equipment;
- Step 3: Swipe left on the plant to display the **Add Device**;
- Step 4: Click **Add Device** to enter the **Add Gateway / Device** page;
- Step 5: Refer to steps 3-6 of **Method 1**.





Note:

（1）The premise of adopting **Method 1** is that the **Home** page of the plants has been switched to the plant where the device needs to be added.

（2）Before adding microinverters, you need to add a gateway first. There can be multiple gateways under one plant, and multiple microinverters under one gateway.

4.2 Delete The Equipment

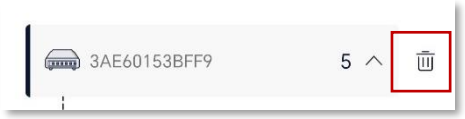
Method 1

- Step 1: Click **Equipment** in the main menu;
- Step 2: Click ⊕ right corner of the devices page;
- Step 3:

(1) Delete Gateway

① On the **Add Gateway / Device** page, select the gateway to delete, click 🗑 , a prompt box will pop up saying **Deleting the gateway will also remove other devices associated with it from the station**;

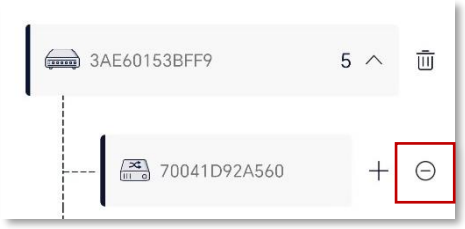
② Click the **Confirm**, the gateway and device will be deleted simultaneously.



(2) Delete Microinverters

① On the **Add Gateway/Device** page, select the device to be deleted, click ⊖ , a **Confirm Delete?** pop-up will appear. prompt box will appear;

② Click the **Confirm,** the device will be removed from the gateway.



Method 2

- Step 1: Click **Equipment** in the main menu;
- Step 2: Select the gateway or microinverter to be deleted, swipe left to reveal the **Delete**;
- Step 3: Click **Delete**, a prompt box will pop up (same as **Method 1**);
- Step 4: Click **Confirm** to delete the device.

4.3 Equipment Information and Data

First, click **Equipment** in the main menu, select a device, and enter the module which includes Real-time Info, Historical Info, Basic info, and Fault Info. Gateway only have Basic Info, without the other three types of info.

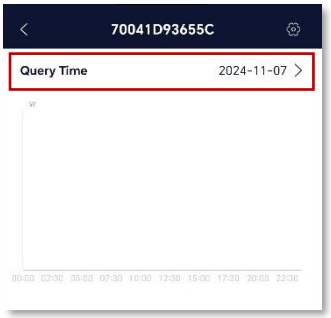
4.3.1 Real-time Info

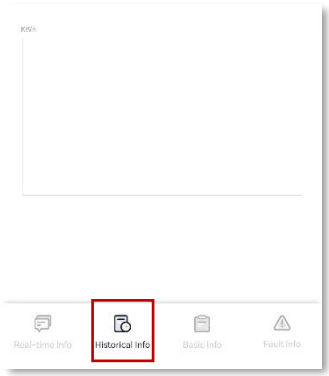
The Real-time Info module allows users to monitor the input and output of the micro inverter anytime, anywhere. The specific data is shown in the table below:

Name	Description
DC Input	Displays the device's input, including the input voltage, input current, and output power of the string (PV1-2)
AC Output	Display the output of the device, including A , B , C three-phase output voltage, output current, output power
Power generation situation	Display the daily power generation and cumulative power generation of the device
Power situation	Display the total AC Power of the device

4.3.2 Historical Info

In the historical Info module, users can query the AC power and power generation of the device on a certain day, and the results are displayed in data charts. Click **Query Time** to choose the time, and the time interval on the horizontal axis of the chart can be adjusted by sliding with your finger.





4.3.3 Basic Info

The basic information module allows users to understand the basic information of the device, specific information is shown in the table below:

Name	Description
Device SN	Display Device SN
MAC Address	Display Device's MAC Address (each device has a unique MAC Address)
Device Name	Display Device Name
Device Type	Display Device Type, including Microinverter, Gateway
Device Model	Display Device Model
Power (W)	Display Micro Inverter's Rated Power
Working Status	Display Device Operating Status, including Online, Offline, Fault three states
Hardware Version	Display Device Hardware Version
Firmware Version	Display Device Firmware Version
Plant ID	Display device's affiliated power station ID
Plant Name	Display device's affiliated power station name
Installation Time	Display device installation time (time when device was added to power station)
Expire Time	Display device warranty time

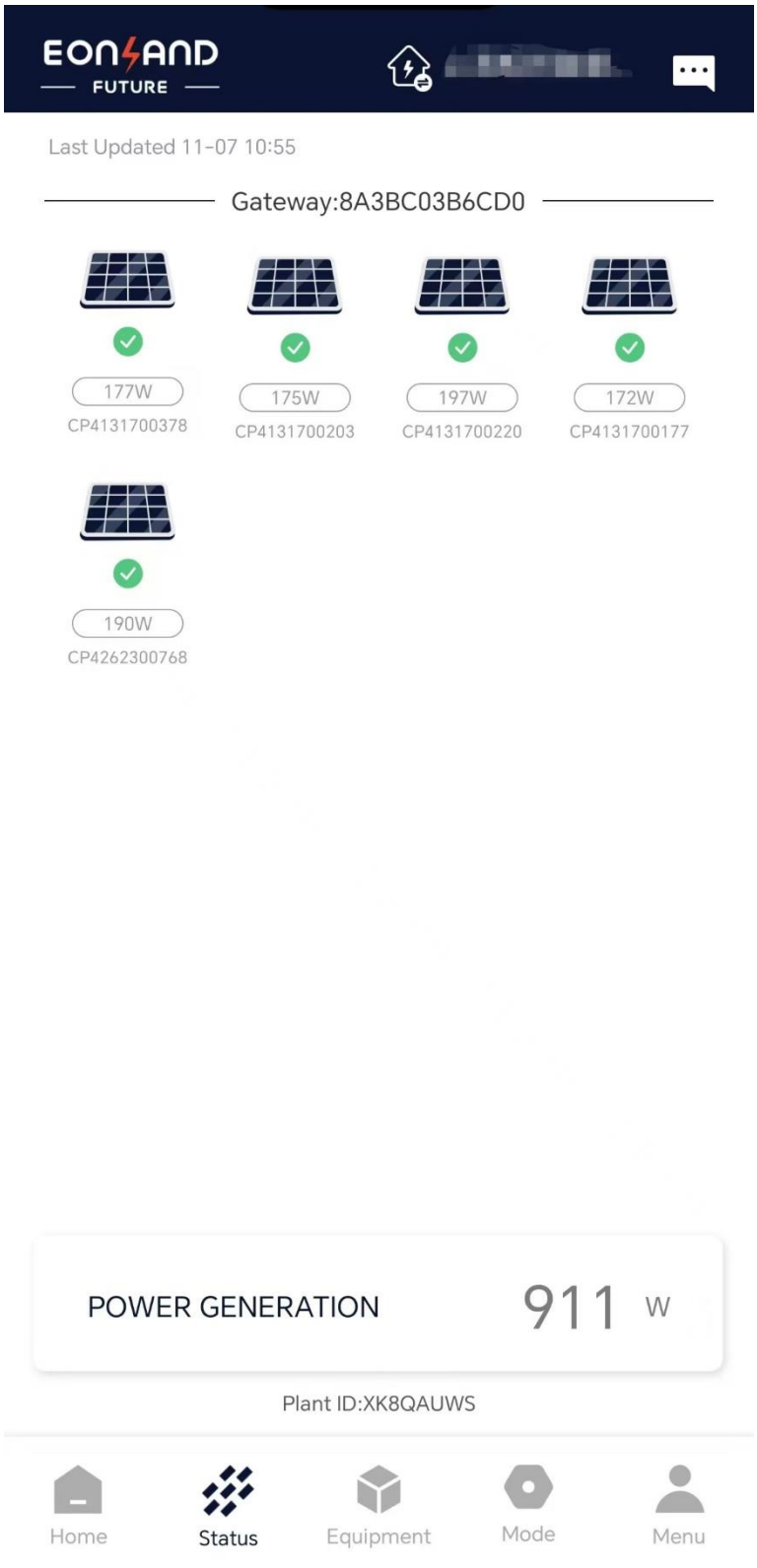
4.3.4 Fault Info

The fault information module allows users to observe the device's fault status. If there are no faults, it will display **No faults**; If there are faults, users can click **View Detail** of the device fault to observe the fault details. The specific fault details are shown in the table below:

Name	Description
Alarm level	Display fault level, including Information, Warning, Error, Serious Error
Fault code	Display fault code, including 1-64
Plant ID	Display the station ID of the faulty device
Plant Name	Display the station name of the faulty device
Device SN	Display the SN of the faulty device
Device Type	Display the device type of the faulty device, including microinverters, gateways
Device Model	Display the device model of the faulty device
Start time	Display the fault time of the faulty device
End time	Display the recovery time of the faulty device
Processing Recommendation	Display the description of the handling advice

5. Status

On the status module page, users can see the working status and power of each micro inverter device in the station, the total power of the station, the station ID, the gateway to which the device belongs, the number of micro inverter devices in the station. indicates that the device is online, indicates that the device is offline, and indicates that the device is faulty. Clicking on a specific device will navigate to view the device's information data, see **4.3 Device Information and Data .**

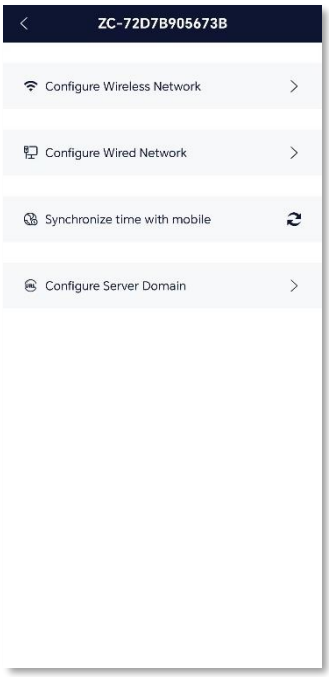


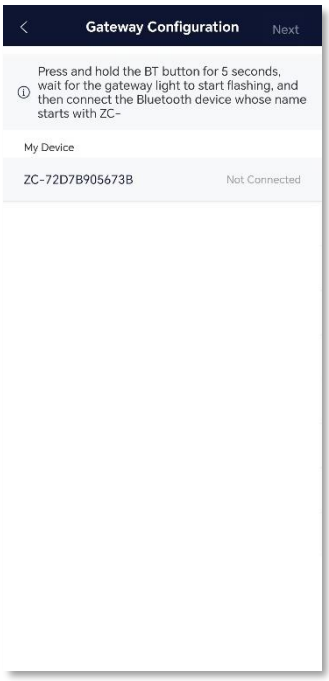
6. Menu

The menu module includes **Gateway Configuration**, **Scan**, **About Us**, **Settings**, in the **Menu** page, user roles (administrator, agent, installer, end user) and user email can be observed.

6.1 Gateway Configuration

- Step 1: Turn on the phone's Bluetooth, power on the gateway;
- Step 2: On the main menu page, click **Gateway Configuration**;
- Step 3: Wait for the fourth green light on the gateway to blink;
- Step 4: Click on the Bluetooth device starting with **ZC**, after successful connection, network configuration can be done (including wireless and wired).





Note: When configuring the gateway, the phone needs to access Bluetooth permissions.

6.2 About Us

- Step 1: On the main menu page, click the **About Us**;
- Step 2:

(1) Click **Terms of Use & Privacy Policy** to view the terms of use and privacy policy;

(2) Click **Official Website** to visit EONLAND's official website.

6.3 Settings

The settings module includes seven modules: setting user country / region, setting app language, electricity price management setting, system investment amount setting, version, change password, and log out.

6.3.1 Country / Region

- Step 1: On the **Menu** page, click **Settings**;
- Step 2: On the **Settings** page, click **Country / Region**;
- Step 3: On the **Select Country and Region** page, click  in the upper right corner, a search box will appear, enter the name of the country or region to be set, or use the initials to search;
- Step 4: Click on the country or region, you will return to the **Settings** page and receive a prompt **Modification successful**.

6.3.2 Language

- Step 1: On the **Menu** page, click **Settings**;
- Step 2: On the **Settings** page, click **Language**;
- Step 3: Click on the language you wish to select.

6.3.3 Electricity Price

Electricity price management is used to set different electricity prices for different time periods, and then calculate revenue based on the electricity prices and electricity generation for each period.

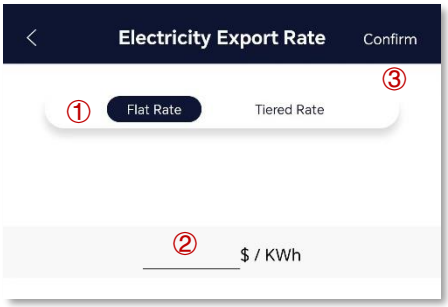
- Step 1: On the main menu page, click the **Settings**;
- Step 2: On the **Settings** page, click the **Monetary Unit**, and select the desired monetary unit;
- Step 3: After selecting the currency unit, on the **Settings** page, click the **Electricity Export Rate**;
- Step 4: Set the **Electricity Export Rate**.

(1) Set A Flat Rate

① On the **Electricity Export Rate** page, click the **Flat Rate**;

② Enter the flat rate;

③ Click the **Confirm**.

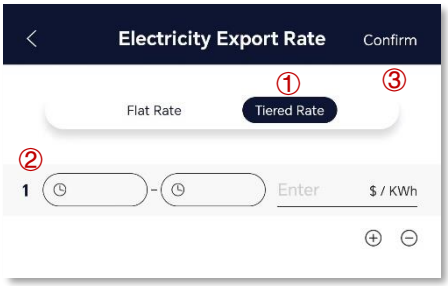


(2) Set A Tiered Rate

① On the **Electricity Export Rate** interface, click **Tiered Rate**;

② Set the time periods and the electricity prices for each time period;

③ Click the **Confirm**.

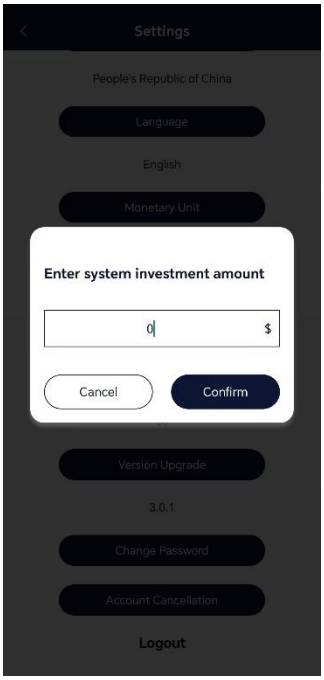


Note: Once the **Currency Unit** is changed, all price data will be represented in the new unit.

6.3.4 System Investment Amount

Used to set the investment amount, compare with the returns, and calculate the investment return rate.

- Step 1: On the **Menu** page, click **Settings**;
- Step 2: On the **Settings** page, click **System Investment Amount**;
- Step 3: Enter the investment amount;



- Step 4: Click **Confirm**.

6.3.5 Version Upgrade

Used for upgrading and viewing versions

- Step 1: On the **Settings** page, click **Version Upgrade**;
- Step 2: If it is a new version, **Your software version is already the lates** will pop up; if it is not the latest version, it will redirect to install the latest version.

6.3.6 Change Password

- Step 1: On the **Menu** page, click **Settings**;
- Step 2: On the **Settings** page, click **Change Password**;
- Step 3: Enter the password;
- Step 4: Click the **Finish**.

Note: Password must be at least 6 characters.

6.3.7 Log Out

- Step 1: On the **Menu** page, click **Settings**;
- Step 2: On the **Settings** page, click the **Log Out**;
- Step 3: Click the **Confirm** at the bottom of the pop-up prompt box, and you will return to the login interface.