

# SOLARMAN Smart Web

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# 1 SOLARMAN Smart Web

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## SOLARMAN Smart Web Overview

SOLARMAN Smart is specially designed for distributed power station terminal owners. Through Web applications, it can provide more comprehensive and intuitive power station data monitoring, and create the ultimate user experience with extremely simplified product design thinking.

## Have SOLARMAN Smart Account

- Experience account : In order to facilitate you to quickly experience the functions of SOLARMAN Smart,we have opened a customer experience account, and you can experience SOLARMAN Smart after communicating with the person in charge of business matching and entering the experience account and password.

Operation steps : Through [SOLARMAN Smart Web](#), select "Login Method", enter the experience account and password to log in to SOLARMAN Smart. Currently, it supports mainstream browsers, and it is recommended that you use Chrome 58, Firefox 49, IE9 or above.

- Have SOLARMAN Smart Account : You need to register a new account on [SOLARMAN Smart Web](#), and complete the account information according to the prompts. After successful registration, you can log in to SOLARMAN Smart. See [Registration&Login](#) for details

## Business Section Introduction

### My plant

Through the function module of my power station, you can quickly obtain the summary statistics of the equipment and power generation data of the terminal power station, monitor the transformation of the power station in real time, view and manage the data, equipment and authorization information of the power station, display the system layout in an intuitive picture, and ensure the daily operation and maintenance work through the alarm and export data of the power station, so as to effectively promote the improvement of the power generation efficiency and data analysis of the power station.

- [Add a Logger](#) | [Overview](#) | [Layout](#) | [Device](#) | [Authorization](#) | [Alerts](#) | [Plant Details](#) | [Export](#) | [Plant Settings](#)

### Function

In order to meet the user's experience in using SOLARMAN Smart, the system can support the use of other service functions through the summary of function and application sections, including different functions and applications of Display and Message, to meet your convenient use in various scenarios.

- [Display](#) | [Message](#)

## Basic functions

During the use of SOLARMAN Smart, in order to improve the user's experience of using and operating, the basic function applications are configured, including the use instructions, message boxes, personal centers, software language switching and other basic functions to view and use. Through the use instructions, the SOLARMAN Smart Web function operations are understood. The message boxes summarize the message reminders for quick feedback. The personal centers meet the basic function settings, and the software language switching supports the use of multiple regions, So as to effectively improve the operation and management of terminal owners.

- [Common Operations](#) | [Personal Center](#)

# 1.1 Registration & Login

## Business Scenario

When you use SOLARMAN Smart for the first time, you need to log in to [SOLARMAN Smart Web](#) after registering an account. If you already have an account or have registered through an app, you can directly enter your account and password to log in. If you have other doubts, you can view [【Registered Account】](#) and [【Create a Plant】](#) to complete the initialization steps.

## Functional Overview



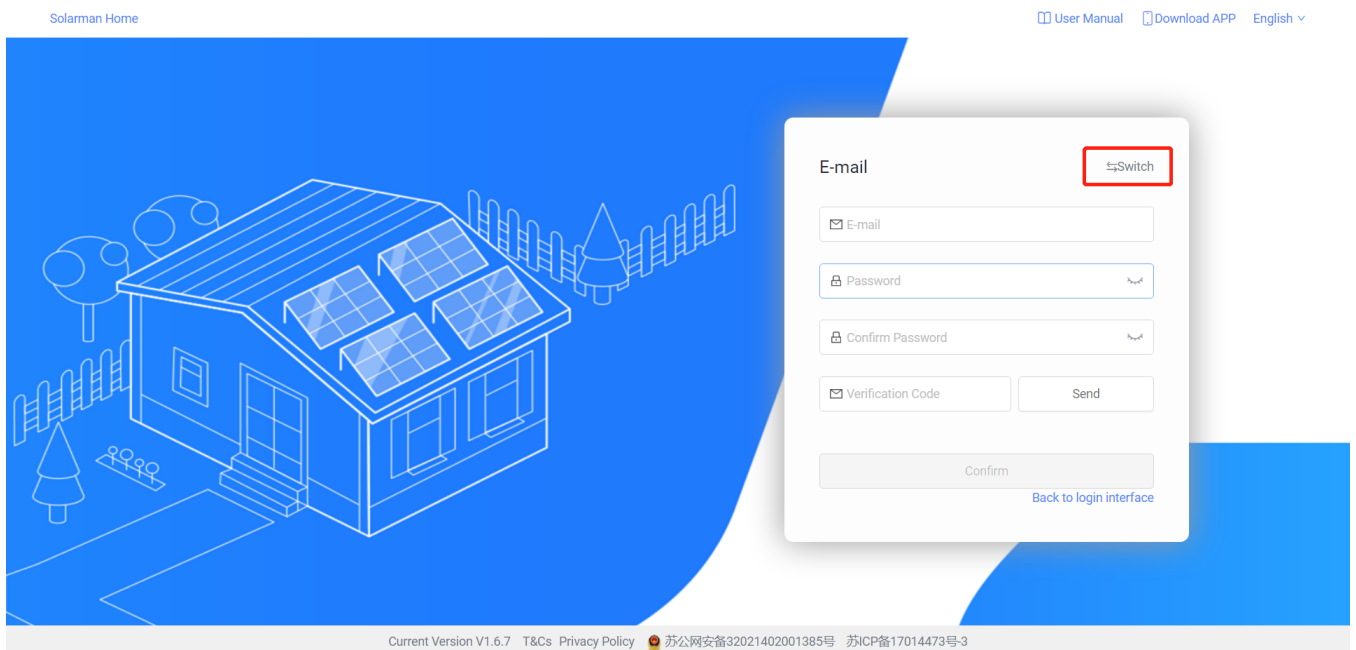
- **Register** : Click the **【Register】** button to display the account registration window. You need to improve the basic account information according to the prompts to complete the registration and use of SOLARMAN Smart account.
  - **Log in** : After completing the account registration, in the subsequent login operation, you can choose three ways to log in, such as email login, mobile phone number login and username login, and enter the corresponding account number and password. Click the **【Log in】** button to enter SOLARMAN Smart.
1. **Fast Login** : If you already have a SOLARMAN Smart account, please log in directly on the login interface. In addition to the three default login methods, you can also log in using a third-party account **【WeChat,**

## 1.1 Registration & Login

QQ】 , as shown in the figure:



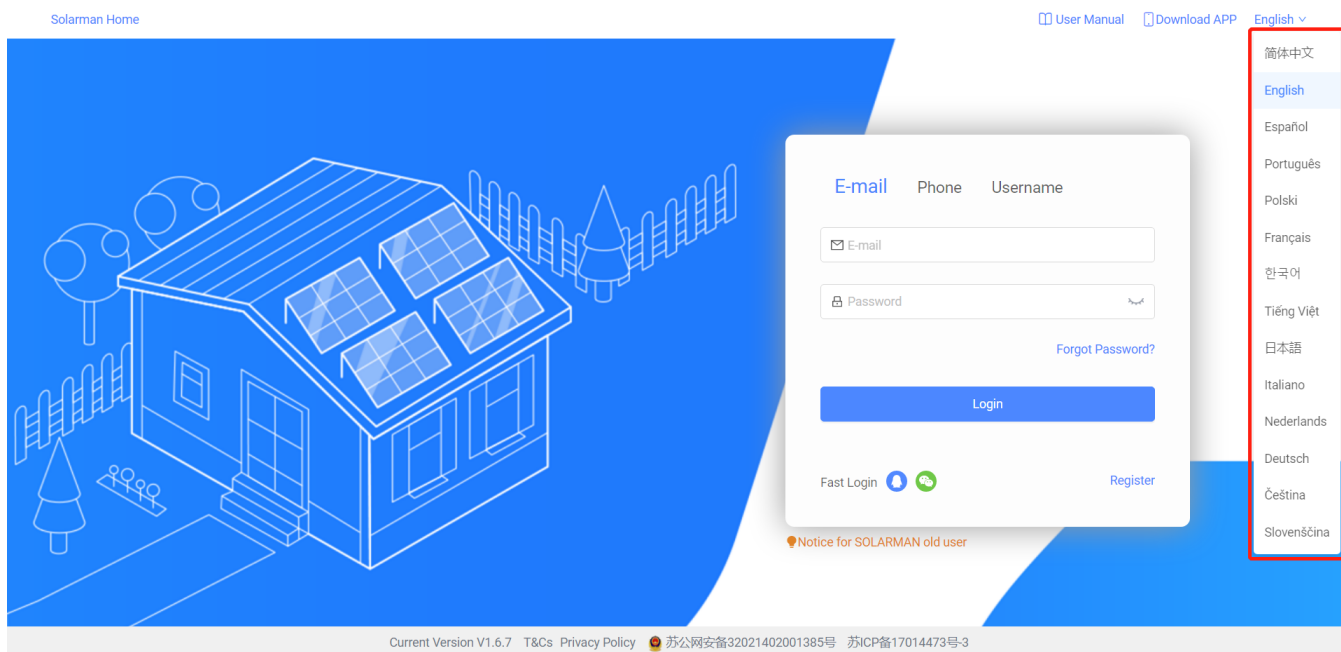
- **Forgot Password?** : When you sometimes forget your password, you can select and click the **【Forgot Password】** button on this page to display the corresponding window to complete password reset by sending a verification code through the mobile phone number or email at the time of registration, which will not affect your operation and use experience, as shown in the figure:



- **Multilingual switching** : In order to meet the needs of international users, SOLARMAN Smart Web supports a total of 14 languages, including simplified Chinese, English, Spanish, Portuguese, Polish, French, Korean, Vietnamese, Dutch, German, Swedish, Japanese, Slovenian and Czech. You can click the function in the upper right corner to select a language switch to meet the needs of users in different regions,

## 1.1 Registration & Login

as shown in the figure:



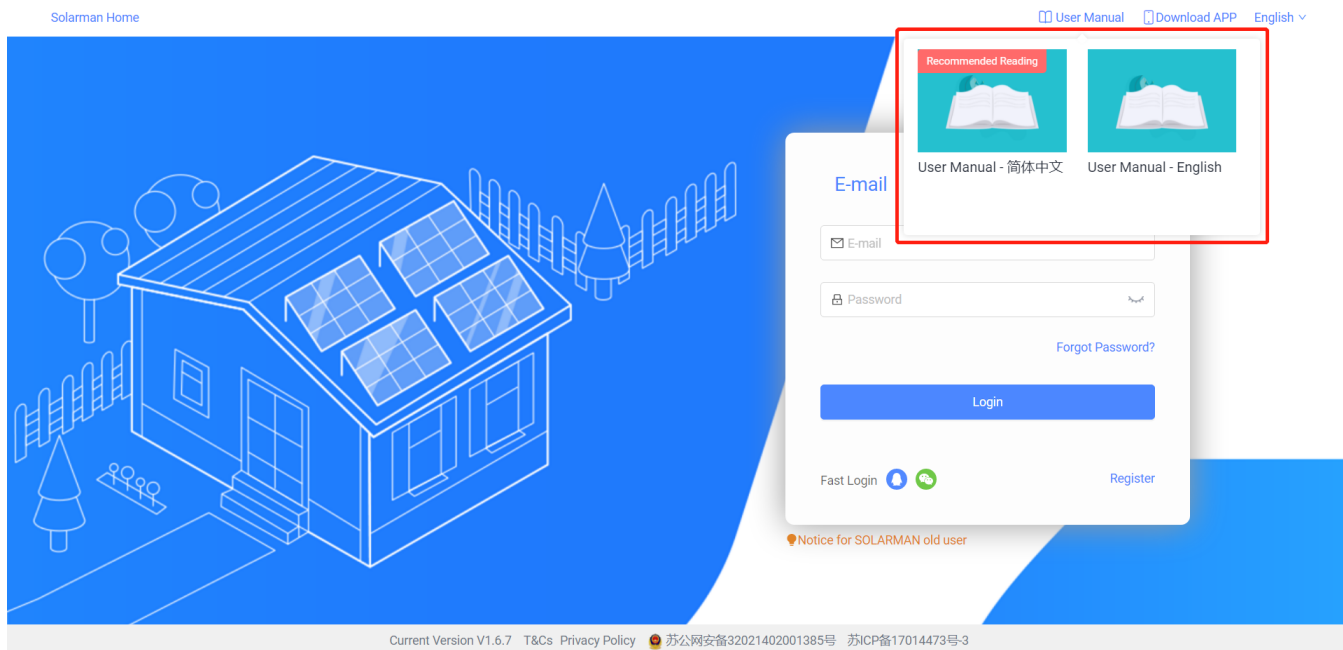
- **Download APP** : If you need the mobile terminal to use SOLARMAN Smart during the operation, you can select **【Download APP】** on the Web login page, and the page will display SOLARMAN Smart App download QR code. You can scan the mobile terminal to download and log in, as shown in the figure:



- **User Manual** : When users use SOLARMAN Smart for the first time, they can select **【User Manual】** on the login page to display the corresponding Chinese and English function instructions. The system will recommend reading according to the region visited, view the corresponding documents as needed, and get

## 1.1 Registration & Login

familiar with and understand the functions and applications of SOLARMAN Smart, as shown in the figure:

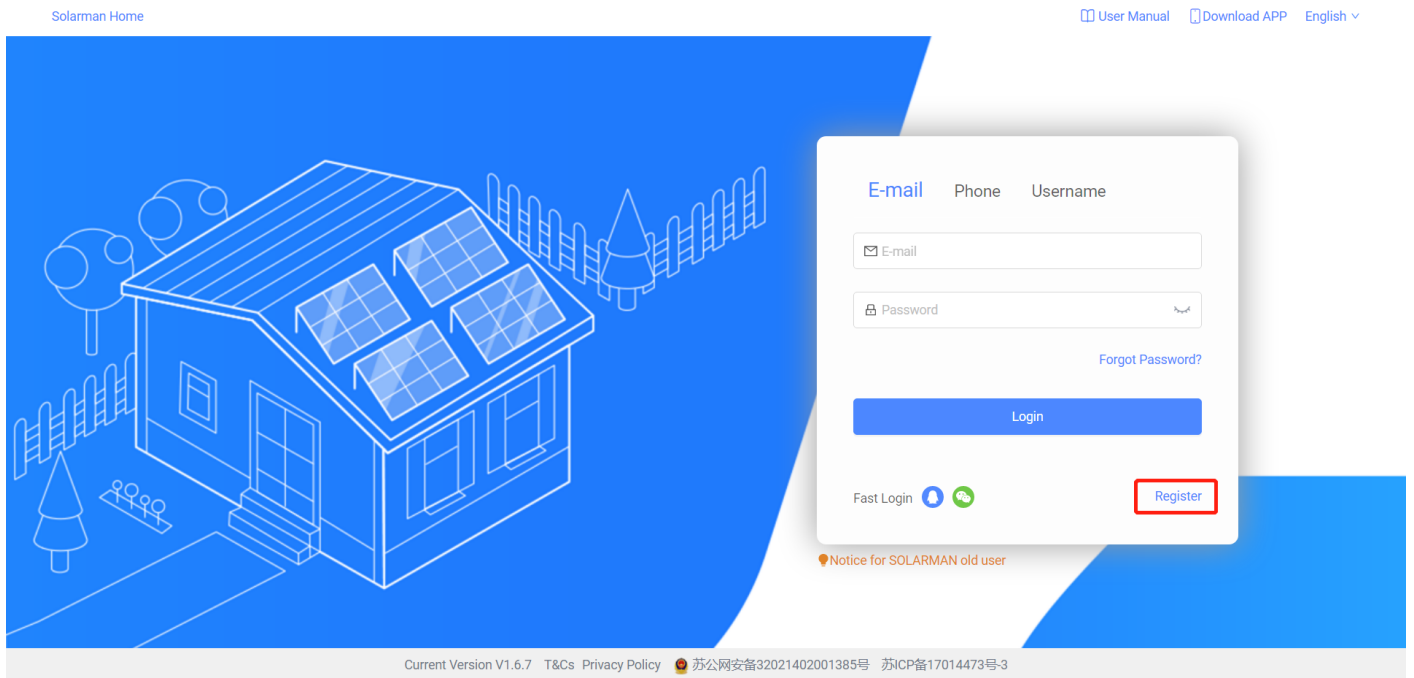


# 1.1.1 Registered Account

## Registered Account

### Step 1: Select a registered account

Enter [SOLARMAN Smart Web](#) login page, please click the registration button in the login page below to display the registration account window.



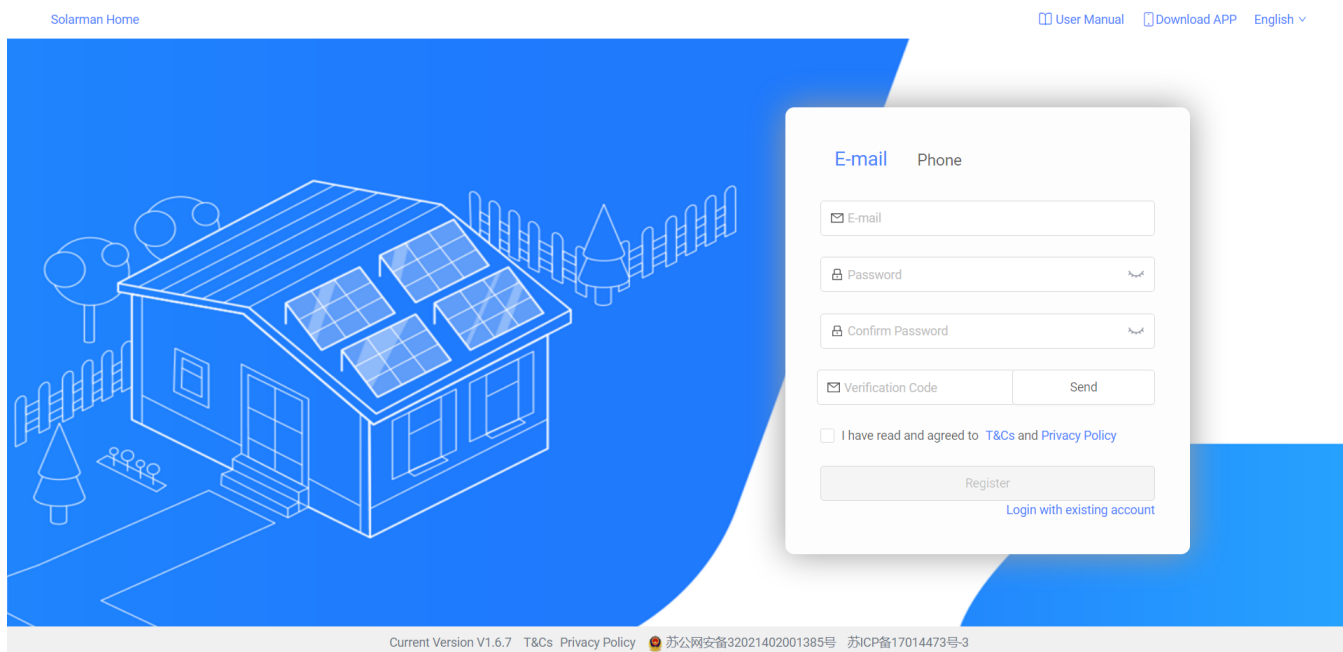
### Step 2: Fill in the account information according to the prompts

In the account registration window, we currently support the use of mobile phone numbers (China, Brazil, the Netherlands, the United States, Nigeria and Saudi Arabia) or email accounts for account registration.

1. Use your mobile phone number or email account to verify your login account and complete password settings
2. Please tick the box in front of **T&Cs** and **Privacy Policy** to indicate that you have read and agreed to the agreement



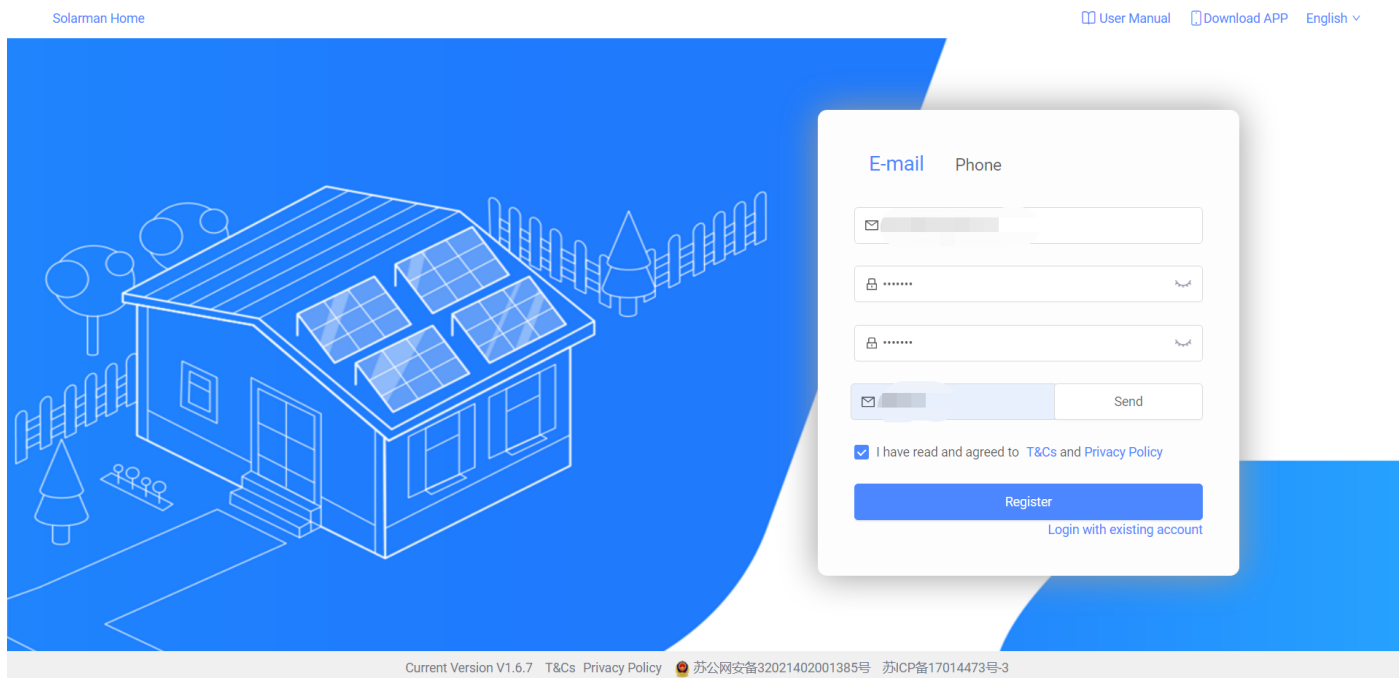
## 1.1 Registration & Login



**Note:** For account security, passwords should not be too simple. For example, continuous Arabic numerals "123456" or "AAAAA123" with the same character repeated many times will be prohibited.

### Step 3: Complete account registration

After entering the mobile phone number or email verification code and checking the consent service and privacy agreement, click the **【Register】** button to complete the account registration of SOLARMAN Smart platform.



### Complete registration related

1. Create a Plant
2. Personal Center

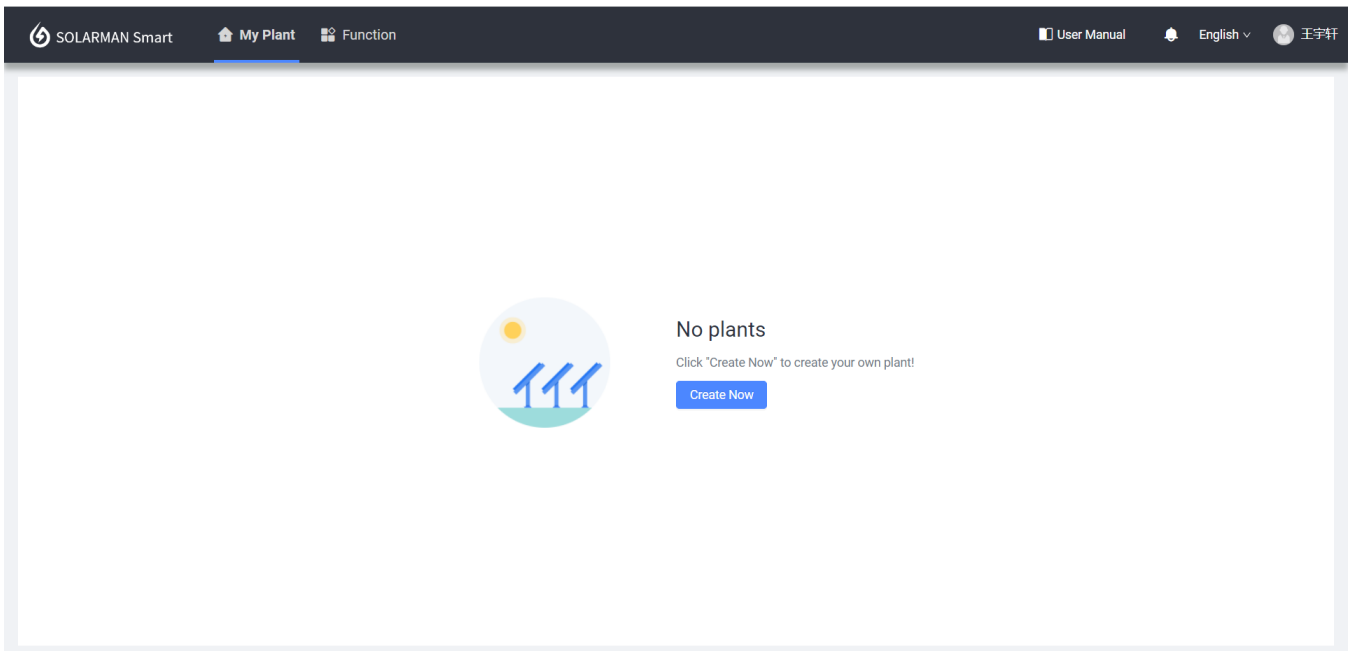
## 1.1.2 Create a Plant

### Create a Plant

You can create a personal photovoltaic power station on SOLARMAN Smart platform to monitor the normal operation of the power station in real time. We will collect, count and calculate the power station data through the relevant equipment associated with the power station. At that time, you will be able to master the operation status of the power station through these data.

#### Step 1: Select Create a Plant

1. After logging in to SOLARMAN Smart Web platform, if you are a new user, you have not finished adding your own power station, you can click **【Create Now】** to start creating your own photovoltaic power station on the platform.



2. If you have created a power station and want to create a photovoltaic power station again, you can add it by clicking the **【Create a Plant】** button on the upper left corner of the main page.

## 1.1 Registration & Login



### Step 2: Enter Plant Details

#### 1. Enter basic Info

Please complete the basic information of the power station according to the prompts: the name, location, area, address, longitude and latitude of the power station. The ones with asterisks are required, while the more complete the other information is, the better it is for you to manage the power station.

The screenshot shows the 'Create' form for entering plant details. The 'Basic Info' section is active and contains the following fields:

- \* Plant Name:** A text input field with the placeholder 'Please enter plant name'.
- \* Plant Location:** A text input field with the placeholder 'Please enter plant address' and a 'search' button.
- Map:** A map of China with a red star indicating the location. The map includes labels for '北京' (Beijing), '渤海' (Bohai Sea), '黄海' (Yellow Sea), and '东海' (East China Sea).
- Coordinates:** A field for entering the coordinates, which is currently empty.

## 1.1 Registration & Login

Go to Location field and search, system will automatically fill in the details according to what you enter.

\* Plant Location:



## 2. System Info

Please improve the system information of the power station according to the actual situation of the photovoltaic power station that needs to be created: power station type, grid connection type, installed capacity, and production date.

Create X

Basic Info

**System Info**

Yield Info

**System Info**

\* Plant Type: Residential Rooftop

\* System Type: Please select system type

\* Installed Capacity (Unit: kWp): Installed Capacity

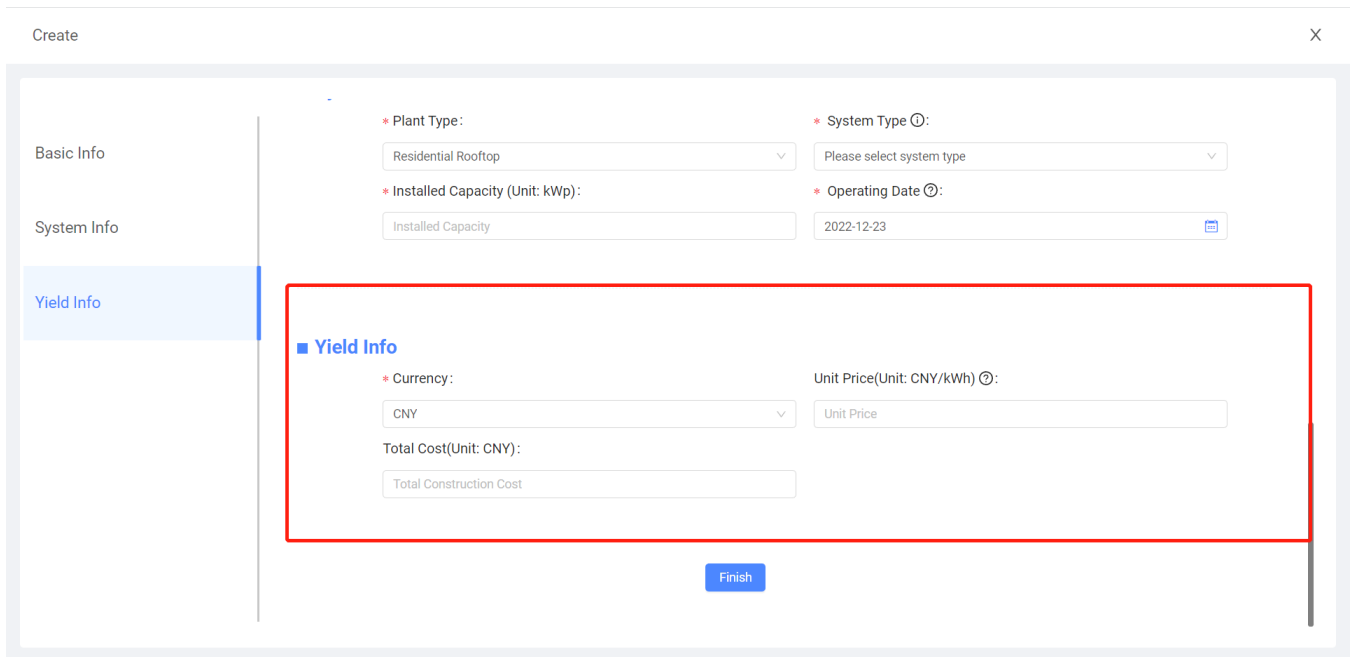
\* Operating Date: 2022-12-23

## 3. Yield Info

Please improve the income information according to the actual situation of the photovoltaic power station region. The more complete the information you enter, the better you can manage the power station. The currency unit in the income information will affect the system's income calculation. Please fill in after

## 1.1 Registration & Login

confirmation.



The screenshot shows a 'Create' form with a sidebar on the left containing 'Basic Info', 'System Info', and 'Yield Info'. The 'Yield Info' section is highlighted with a red box and contains the following fields:

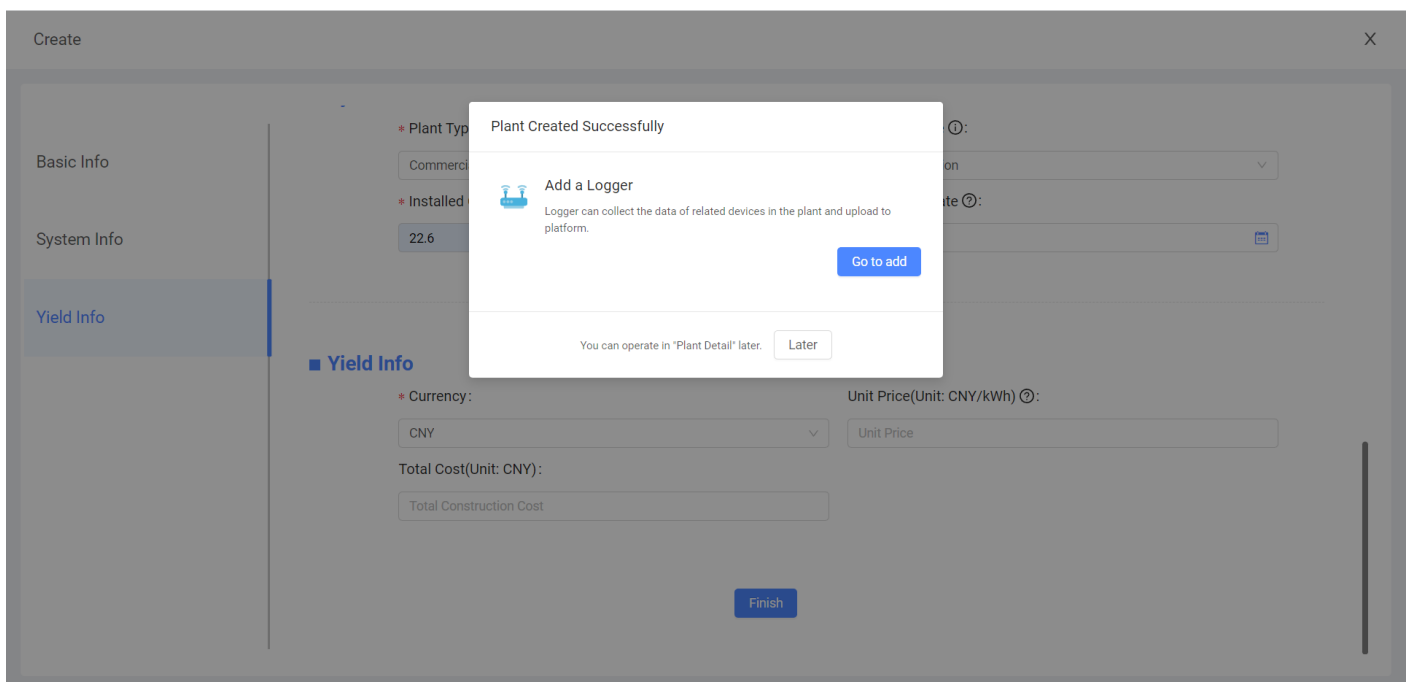
- \* Plant Type: Residential Rooftop
- \* System Type: Please select system type
- \* Installed Capacity (Unit: kWp): Installed Capacity
- \* Operating Date: 2022-12-23
- \* Currency: CNY
- Unit Price(Unit: CNY/kWh): Unit Price
- Total Cost(Unit: CNY): Total Construction Cost

A 'Finish' button is located at the bottom of the form.

### Step 3: Complete the creation

After completing the information of the power station, click the **【Finish】** button, and the successful creation window will be displayed on the page, indicating that you have successfully created your own photovoltaic power station, but the power station will not have any data temporarily, because you have not added any equipment to the power station, so there is no data source. You can select [Add a Logger](#) in the successful creation window

**Note:** If there is no collector for the time being, you can also select **【Last】**, which can be operated in **Plant Details** later.



The screenshot shows the 'Create' form with a 'Plant Created Successfully' dialog box overlay. The dialog box contains the following text:

Plant Created Successfully

**Add a Logger**

Logger can collect the data of related devices in the plant and upload to platform.

[Go to add](#)

You can operate in "Plant Detail" later. [Later](#)

The background form is dimmed, showing the 'Yield Info' section and the 'Finish' button.

## Finish creating related

### 1. My plant

1.1 Registration & Login

2. [Add a Logger](#)

# 1.2 My plant

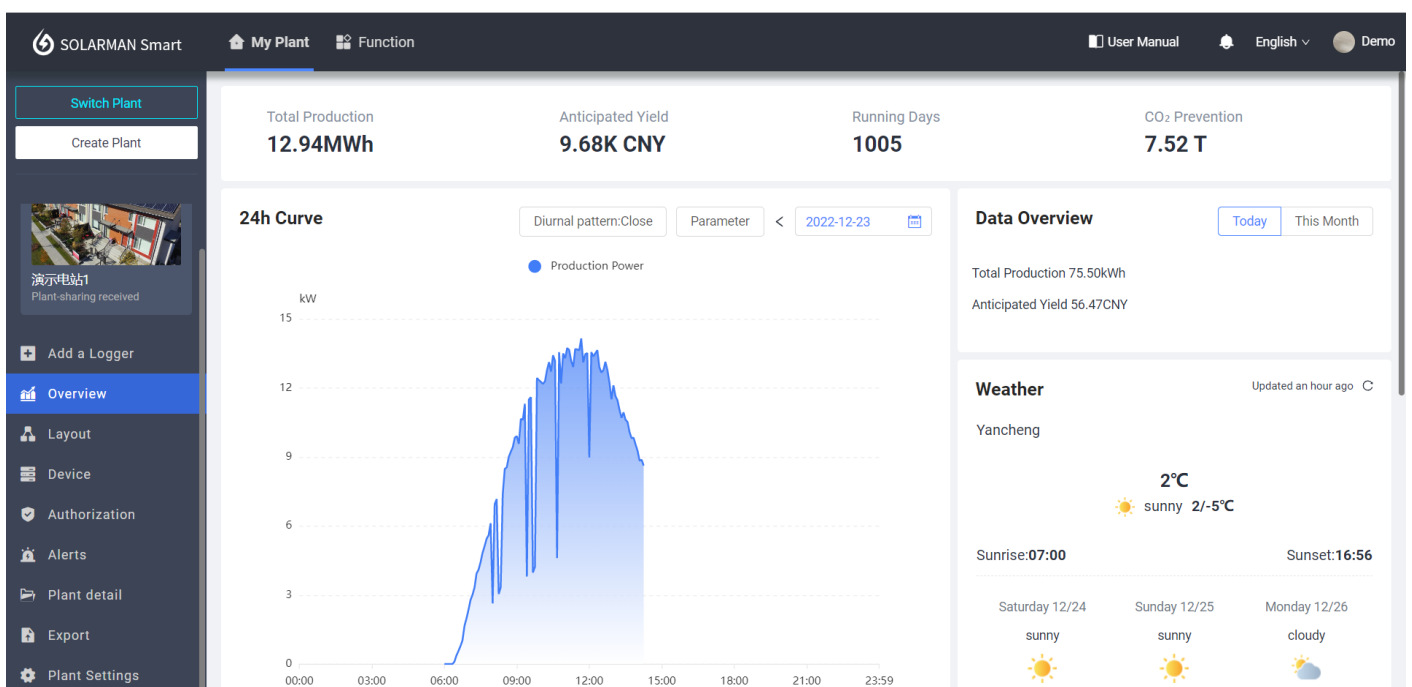
## Learn about My plant

The My plant module is used to subdivide and manage the distributed power stations created by the terminal owner. It supports the use of different functional modules to meet the requirements of daily operation and maintenance. Among them, the collector is added to obtain real-time power station data monitoring, provide real-time data for power station data analysis and power station alarm, and support switching power stations to view the detailed data variables of multiple power stations, so that you can quickly understand the style of data charts and flow charts, Meet the Owner's data monitoring and analysis of photovoltaic power station.

## Business usage scenarios

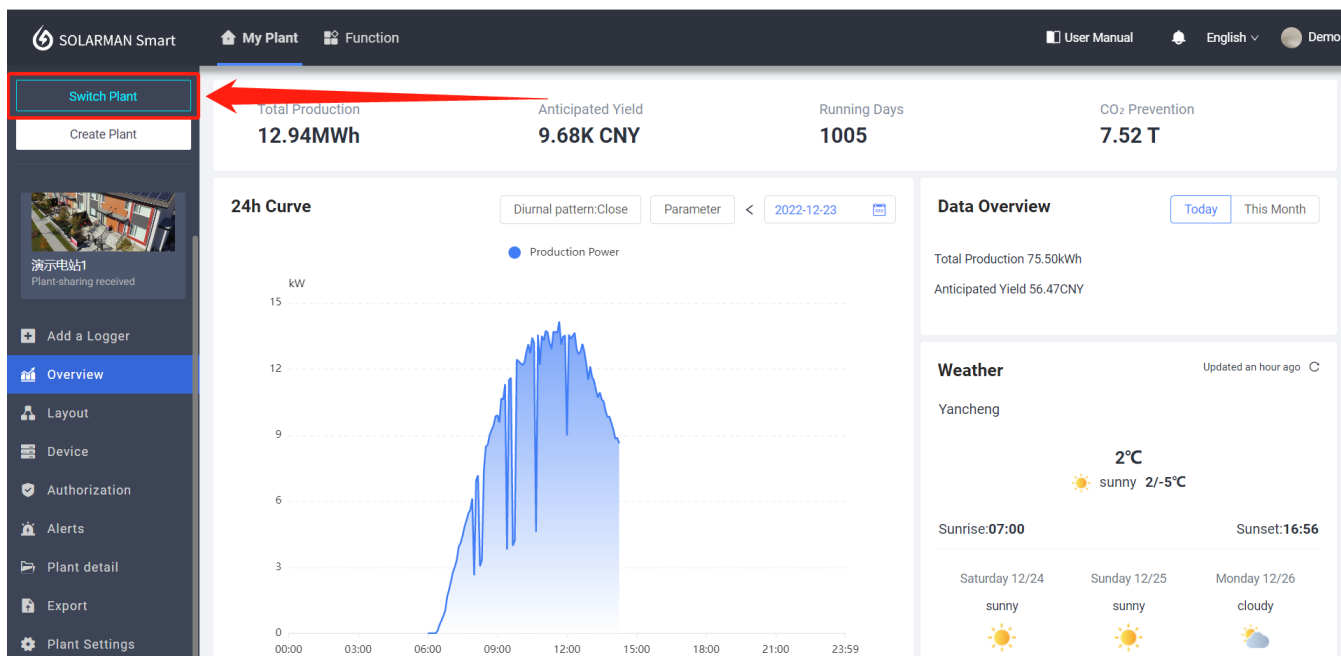
1. Terminal Owner : As the terminal owner, you need to know the power generation status and power station information of your own photovoltaic power station, and you can manage and maintain according to the summarized real-time power station data and weather forecast, so as to meet the needs of improving power generation efficiency and reducing equipment loss.
2. O&M Provider : As an O&M provider, it manages the photovoltaic power stations that have been created. It can view the detailed information of the company's power stations by switching power stations, including power station data, equipment information and power station alarms. Export data is used to facilitate statistics and analysis of the data of each photovoltaic power station.

## Functional Overview

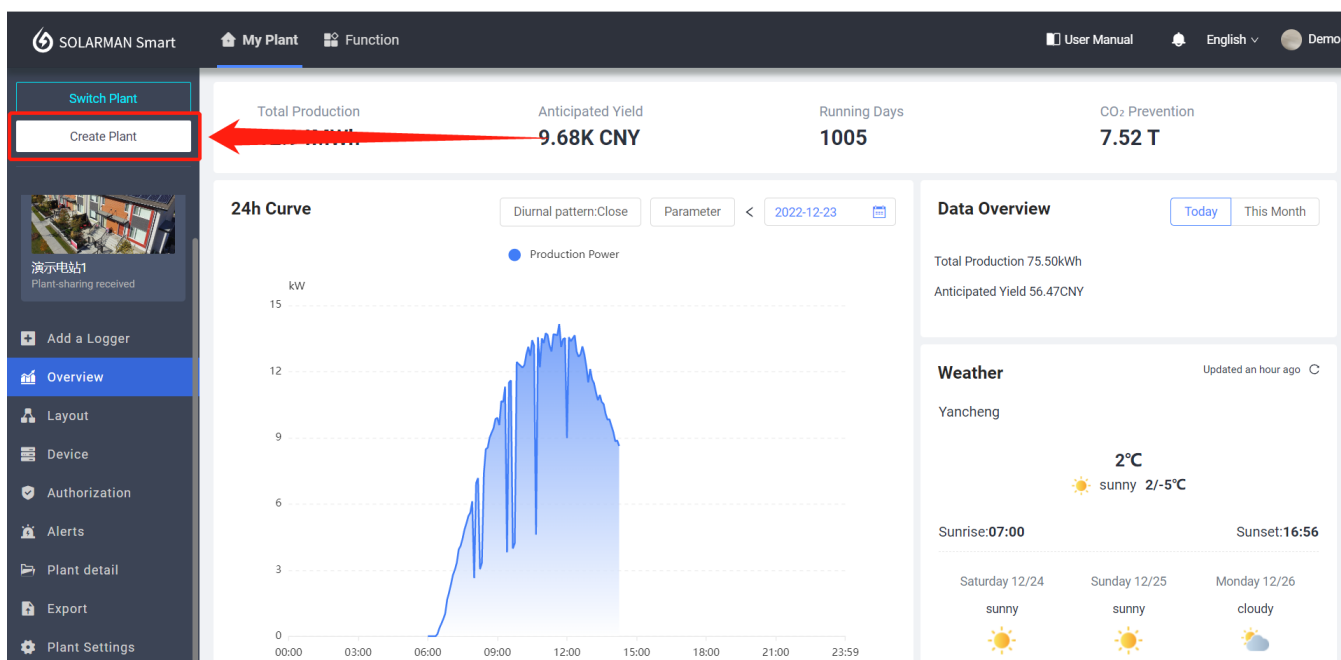


## 1.2 My plant

- **Functional module** : [Add a Logger](#) | [Overview](#) | [Layout](#) | [Device](#) | [Authorization](#) | [Alerts](#) | [Plant Details](#) | [Export](#) | [Plant Settings](#)
- **Switch Plant** : If there are multiple power stations under the login account name, you can choose to click the **【Switch Plant】** button at the upper left corner, and the system will display the name, cover and status of the corresponding power station. You can click to display the detailed data of the corresponding power station according to your choice, as shown in the figure:



- **Create a Plant** : When the user needs to create a new power station, he can choose to click the **【Create a Plant】** button at the upper left corner. Please improve the basic information, system information and income information of the power station according to the prompts, and add a collector to complete the equipment access to obtain real-time data. See [Create a Plant](#) for details





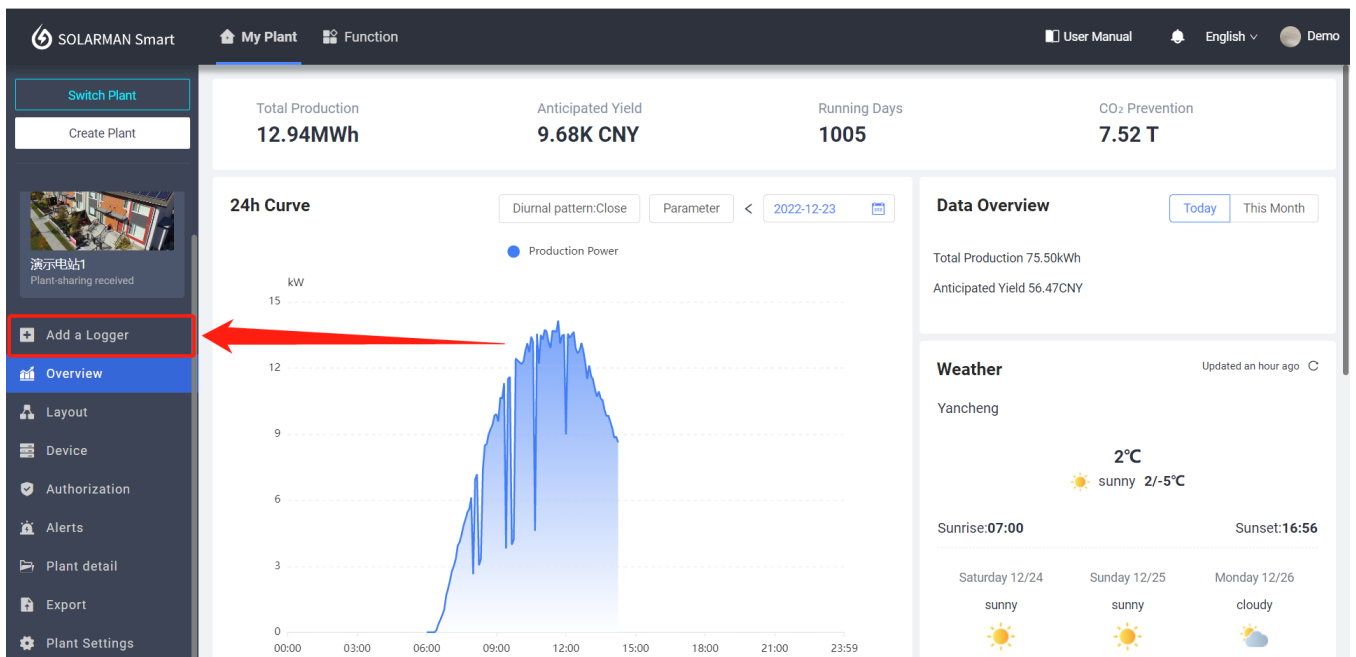
## 1.2.1 Add a Logger

After the plant is created, you can add a logger. Logger can collect running data from PV devices and upload to server, which enables a full understanding of PV plant running status and revenue information. Furthermore, SOLARMAN Smart will determine whether the plant is running normally, which avoid property losses caused by device failure and other reasons.

### Operation guidance

#### Step 1: Select Add a Logger

1. If you have created multiple photovoltaic power stations, please select the specific power station where you want to add equipment before adding a logger to avoid data confusion caused by adding equipment to the wrong power station and affecting your judgment on the operation of the power station.
2. Click the **【Add a Logger】** button after selecting the appropriate power station according to the guidance shown in the red box below.



#### Step 2: Enter Logger SN

On the "Add a Logger" page, please enter the serial number of the collector of the photovoltaic power station. SN can be found on the product box. If the product box has been lost, you can find SN on product body.

Add a Logger X

SN:

### Step 3: Select the association method

When adding a collector, you need to select the association method of the equipment that is physically connected to the collector. The system will add the equipment to the power station according to the association method you select. You can select two association methods, Auto selection and Manual selection.

**Note: Once the association method is selected, it cannot be changed. If there is no special requirement, it is recommended that you use the default "Auto selection"**

Add a Logger X

SN: 6374839384738

Please select sub-device: Auto-selection ▾

1. Automatically select the associated equipment. The default association method is "Auto selection". After using this method, the connected equipment under the collector will be automatically added to the power station, and the equipment data will be automatically synchronized to the power station.
2. Manually select the associated equipment If you select "Manual selection", you need to manually add the equipment that has been physically connected under the collector to the power station. If some equipment is still not connected to the collector or the collector communication is abnormal when adding, you can

## 1.2 My plant

manually add it again in the equipment information of the power station after the equipment works normally.

Add a Logger ×

SN: 6374839384738 Please select sub-device: Manual-selection ▾

0 item(s) selected | Please select the sub-device first before adding.

Device Type	SN	COM Status	Updated	Connection Status
No correlated devices found				

Back to modify Added

### Step 4: Complete adding Logger

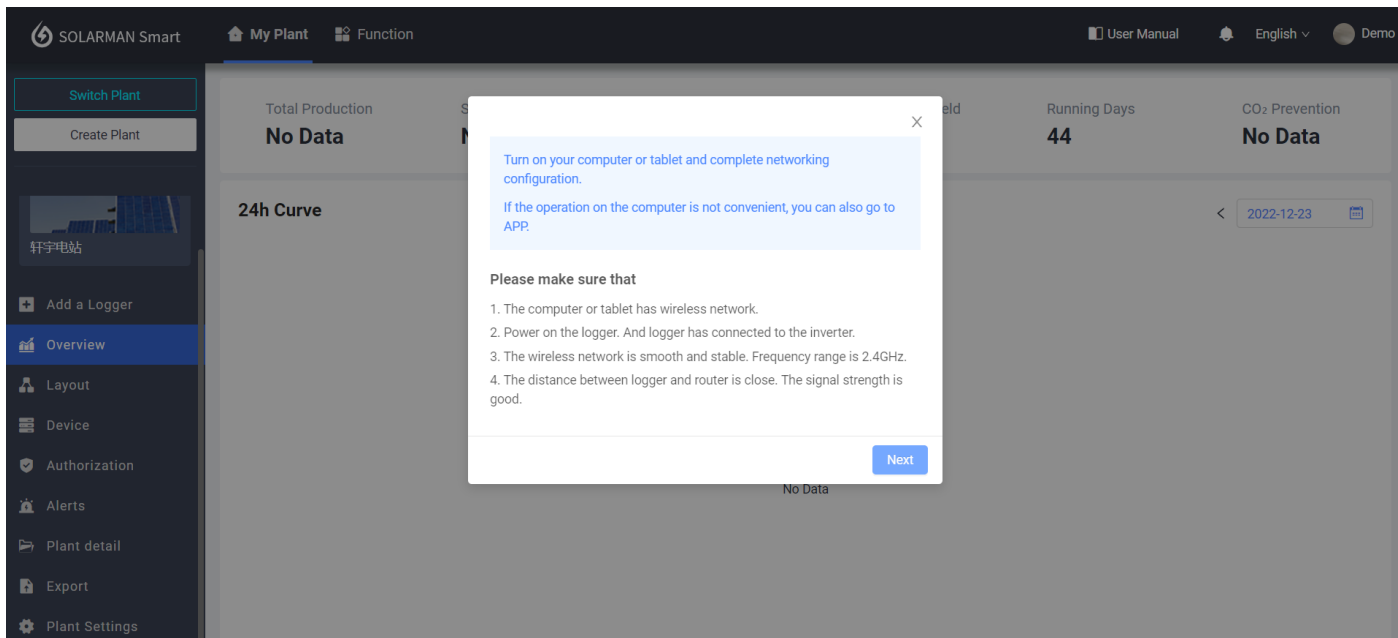
After the addition, you can see the data related to the gateway/collector in the **【Device】** module of the power station. If your device is not configured for collector networking or communication is abnormal, you can click **【Start】** to operate according to the guidance.

The screenshot displays the SOLARMAN Smart interface. A central dialog box titled "Device Added" with a green checkmark icon contains the following text: "Please follow the steps to complete the networking configuration." followed by a numbered list: "1. Your device requires networking configuration." and "2. If the networking configuration is not completed or the communication is not normal, please follow the steps here." A blue "Start" button is located at the bottom right of the dialog. The background interface shows the "My Plant" overview page with "No Data" for Total Production and CO<sub>2</sub> Prevention, and "44" for Running Days. The left sidebar includes options like "Switch Plant", "Create Plant", "Add a Logger", "Overview", "Layout", "Device", "Authorization", "Alerts", "Plant detail", "Export", "Plant Settings", and "Delete".

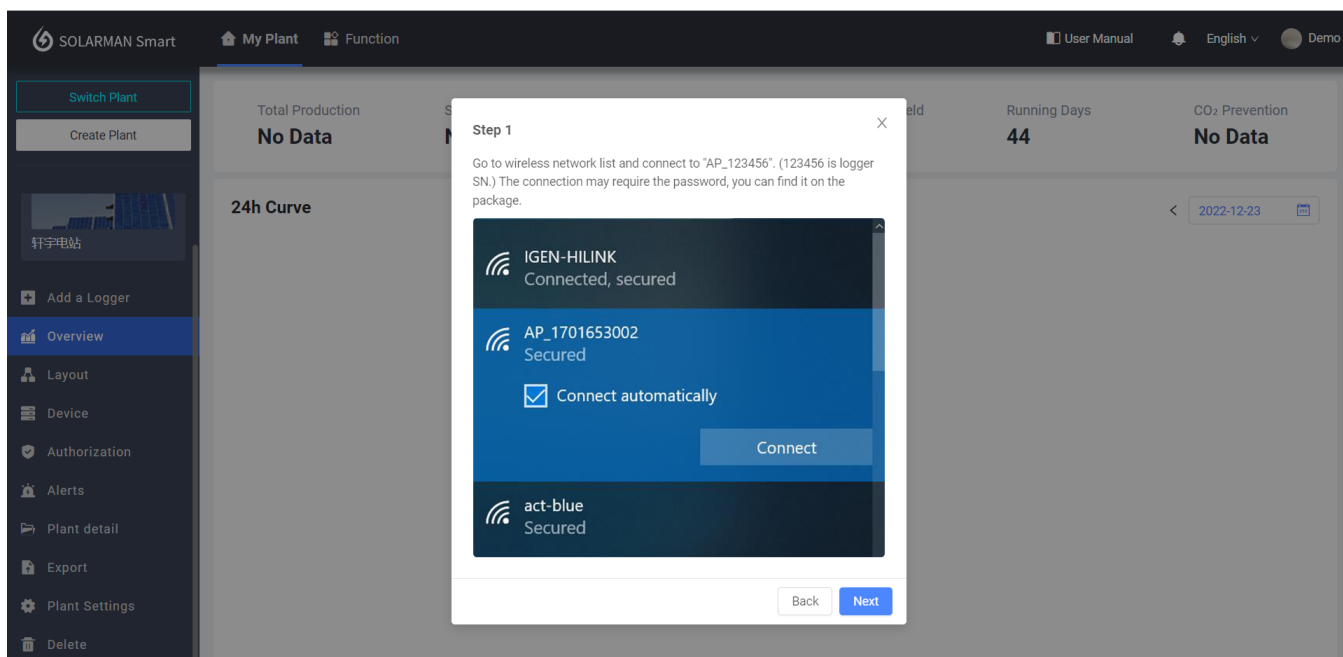
### Step 5: Logger networking configuration

Please check the following precautions for the collector networking configuration, click **【Next】** after confirmation, and complete the corresponding configuration according to the prompts.

## 1.2 My plant

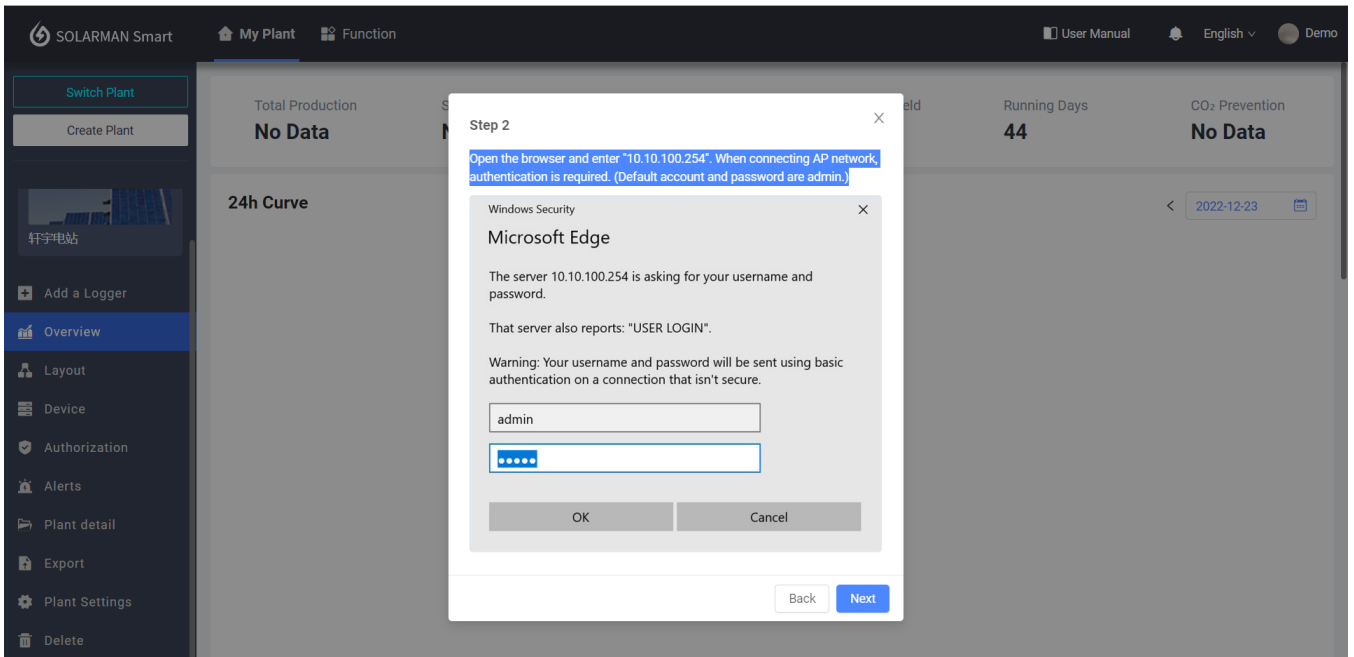


1. Step 1 : Go to wireless network list and connect to "AP\_123456". (123456 is logger SN.) The connection may require the password, you can find it on the package.

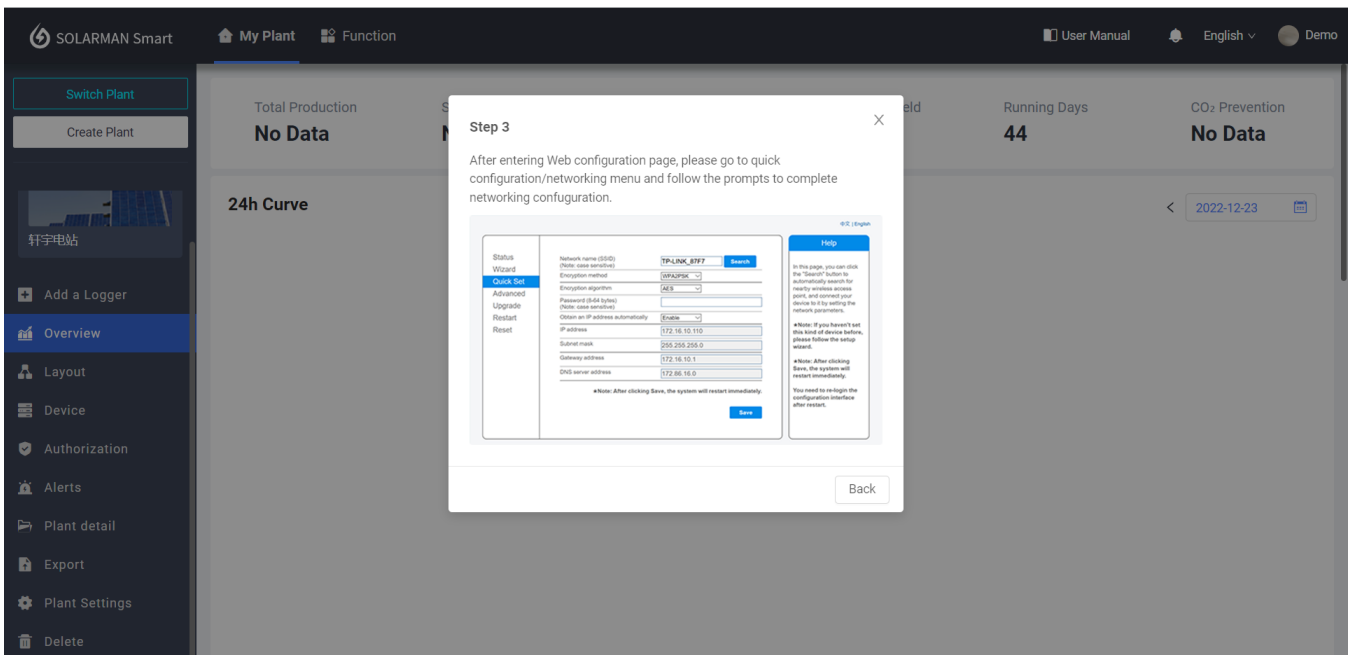


2. Step 2 : Open the browser and enter "10.10.100.254". When connecting AP network, authentication is required. (Default account and password are admin.)

## 1.2 My plant



3. Step 3 : After entering Web configuration page, please go to quick configuration/networking menu and follow the prompts to complete networking configuration.



4. After the online configuration of the collector is completed, it means that the collector has communication capability and can transmit the collected data of power station equipment to the server. At that time, you will be able to view the relevant data of the power station on the Web platform of Wheat Smart Power. Due to the network and server connection reasons, after the collector is configured, you need to wait 5-10 minutes to see the normal data display.

## Logger related

1. Device
2. Overview

## 1.2.2 Overview

After the photovoltaic power station is created and connected to the collector, Select the "Overview" module to view the rich statistical data of the power station, including statistical information (total power generation, total grid connection, estimated total revenue, proportion of self use, total emission reduction, number of days of operation), recent data, 24-hour power curve, local weather, historical data, etc. You can also support the "Switch Plant" to view the display of data of different power stations to meet your browsing and management of power stations from different perspectives.

### Matters needing attention

- According to the different photovoltaic power station equipment you use, we suggest that you select the grid connection type in 【Create a Plant】 :

#### ■ System Info

\* Plant Type:

Residential Rooftop

\* Installed Capacity (Unit: kWp):

Installed Capacity

\* System Type ⓘ:

Please select system type

Please select system type

All on Grid

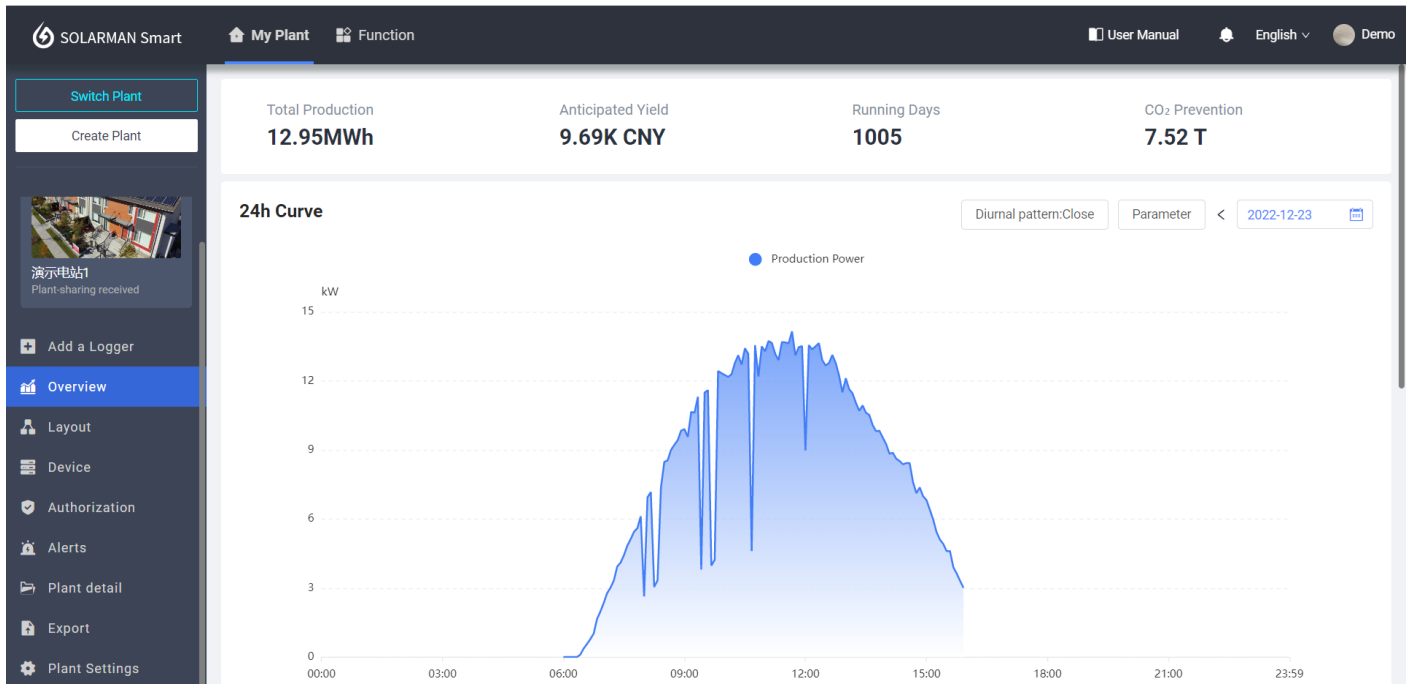
Self-consumption

Storage System

Centralized

1. If your device (e.g. inverter) only acquires production data and transmits data to grid, it is recommended that you choose "**All on Grid**" as your plant system type.
2. If your device (e.g. inverter) acquires production data and consumption data at the same time, it is recommended that you choose "**Self-consumption**" as your plant system type.
3. If your device (e.g. inverter) acquires production data, consumption data, battery data and grid data at the same time, it is recommended that you choose "**Storage System**" as your plant system type.

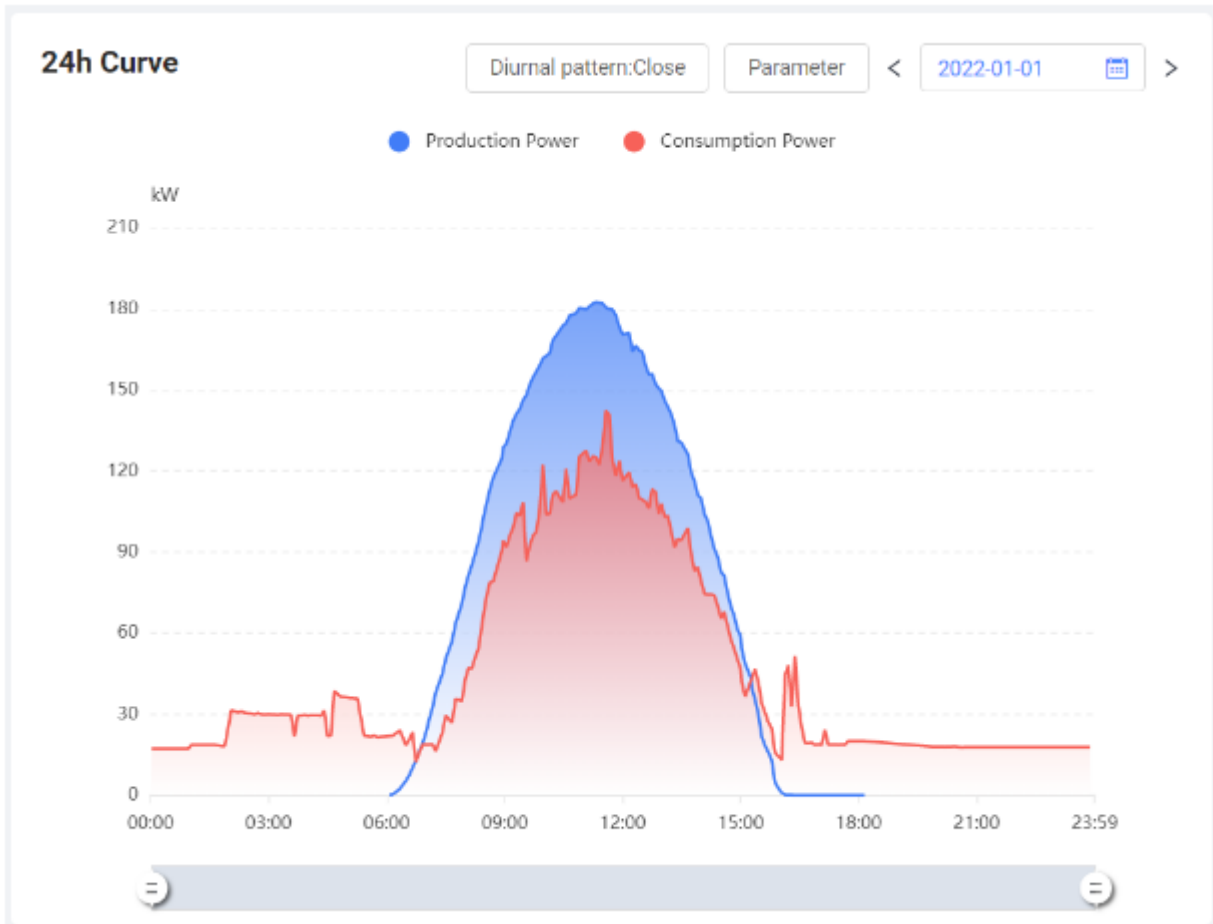
### Plant Data



- **Description of statistical terms :**

1. Total Production : Total production generated from devices under the current plant.
  2. Total Grid Feed-in : Total capacity fed into the grid.
  3. Self-used Ratio : Proportion of current power generation used for household consumption
  4. Anticipated Yield : Estimated income calculated based on current power generation or grid connection and current grid price and other information
  5. Running Days : Total serving days.
  6. CO<sub>2</sub> Prevention : Reduced CO<sub>2</sub> emission since current plant went into service.
- **24h Curve :** The system displays the data variables of the power station within 24 hours in the form of a curve, in which the statistical parameters include power generation, power consumption, grid connected power and power purchase power. It supports the selection of day night mode and historical date to view the

corresponding data records.

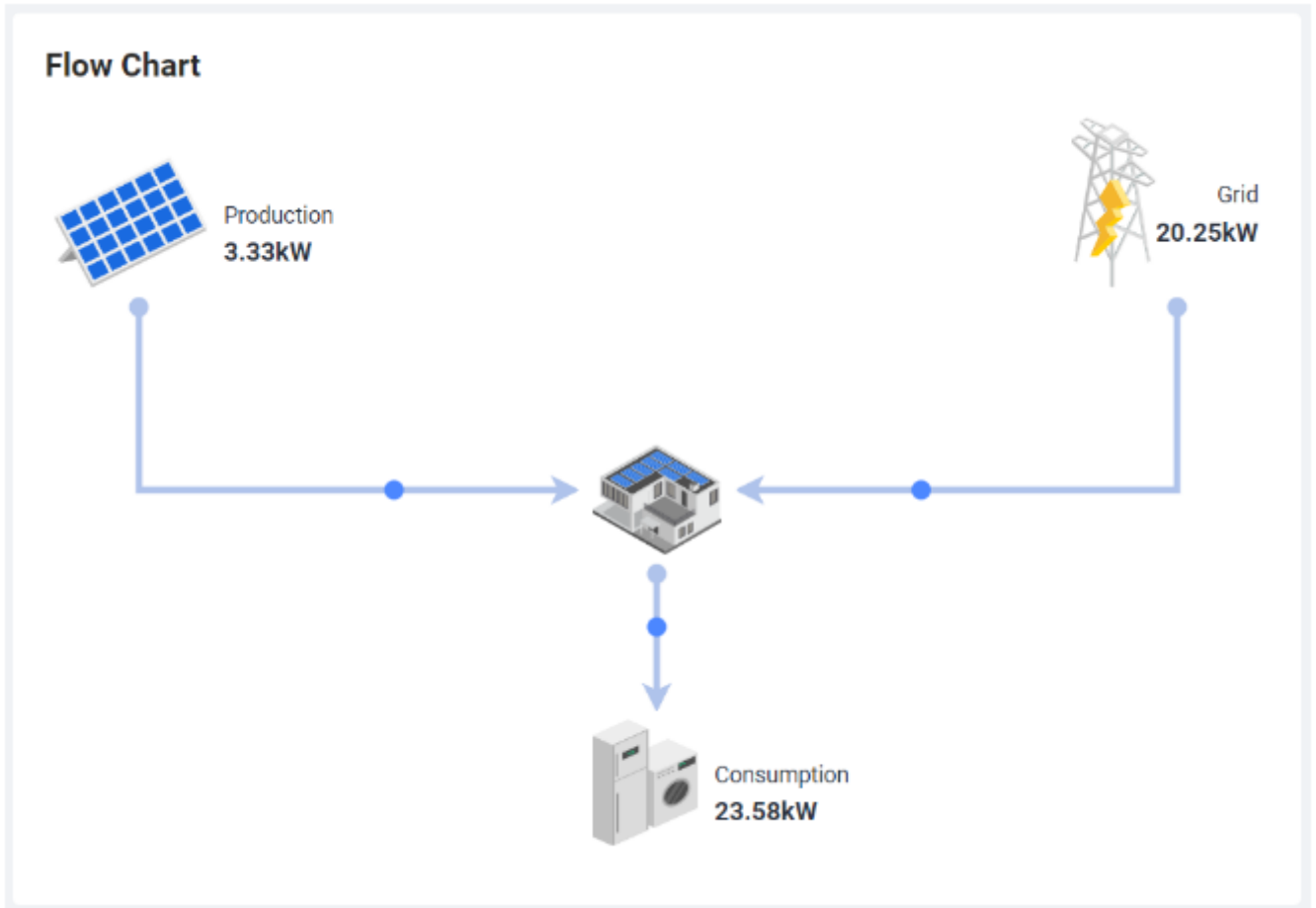


- **Data Overview** : The recent data changes of the power station are displayed through statistics of the power generation and power consumption data of the power station, so that users can more intuitively understand the summary and expected income of the power generation and power consumption of the photovoltaic power station, and support switching the data records of different dates 【today】 and 【this





- **Flow Chart** : The style of flow chart is used to show clear power generation flow chart of photovoltaic power station to users, so that they can quickly understand the power generation status of the power station.



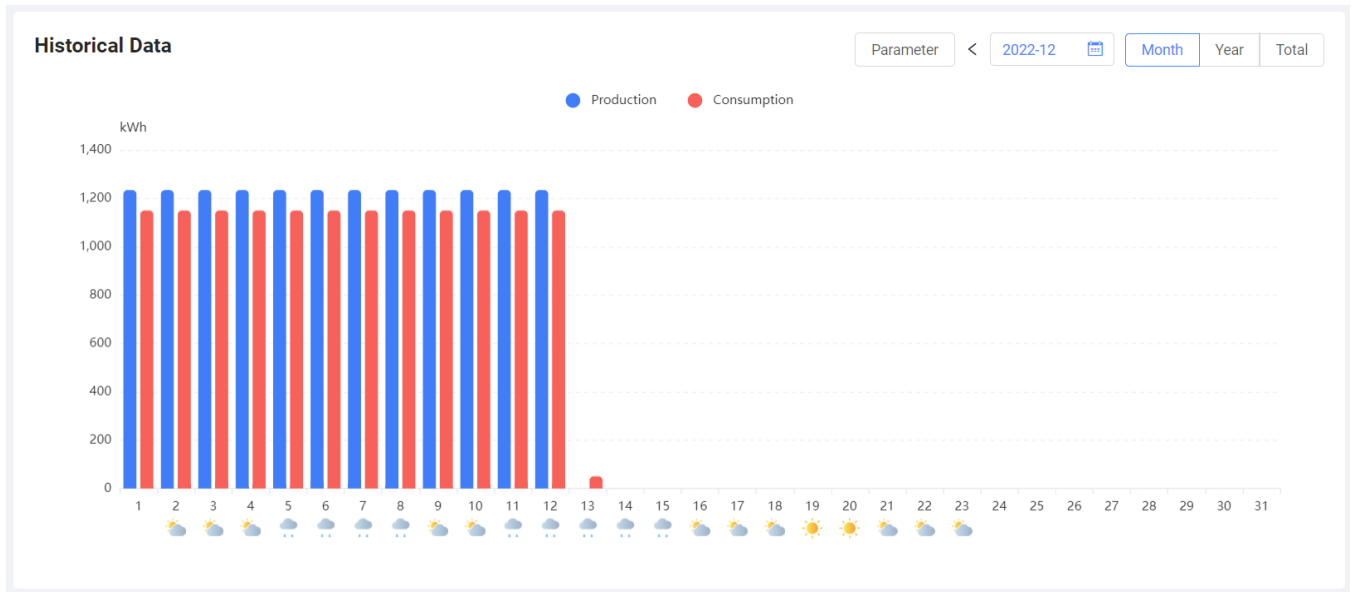
- **Weather** : The weather board today obtains the recent weather conditions of the region through the location of the photovoltaic power station and shows them to users for viewing and refreshing.



- **Historical Data** : The historical data is recorded and displayed according to the historical data of different periods of the photovoltaic power station. It is displayed in the form of data charts for your quick

## 1.2 My plant

understanding. It can support viewing the specific historical records of power generation data through month/year date filtering, and selecting different parameters for display.



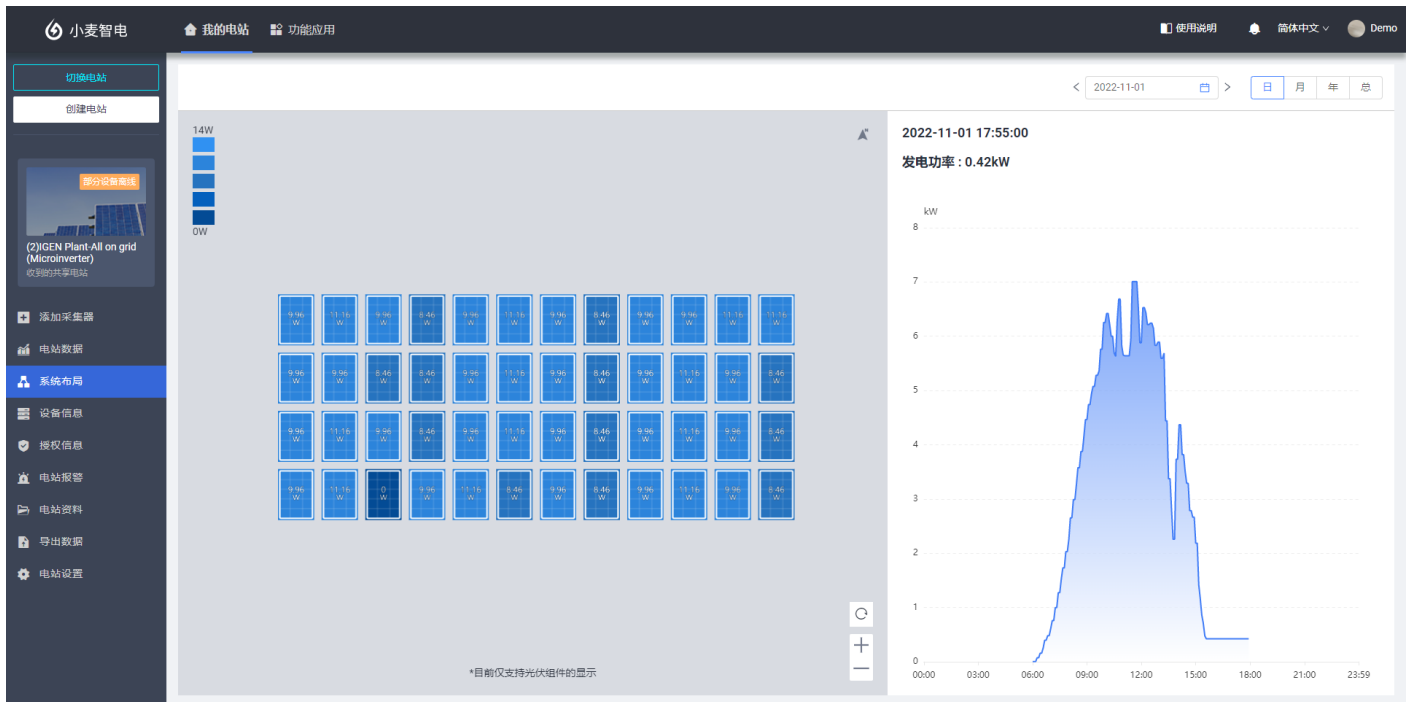
## Overview related

1. [Create a Plant](#)
2. [Add a Logger](#)

## 1.2.3 Layout

The Layout module is used to arrange and display the photovoltaic modules that have been connected to the system. The power generated by each photovoltaic module is displayed in different color values and line charts. The user can clearly and intuitively see the power generation status of the photovoltaic modules in the power station, and can support viewing the details of the modules and data records on different dates.

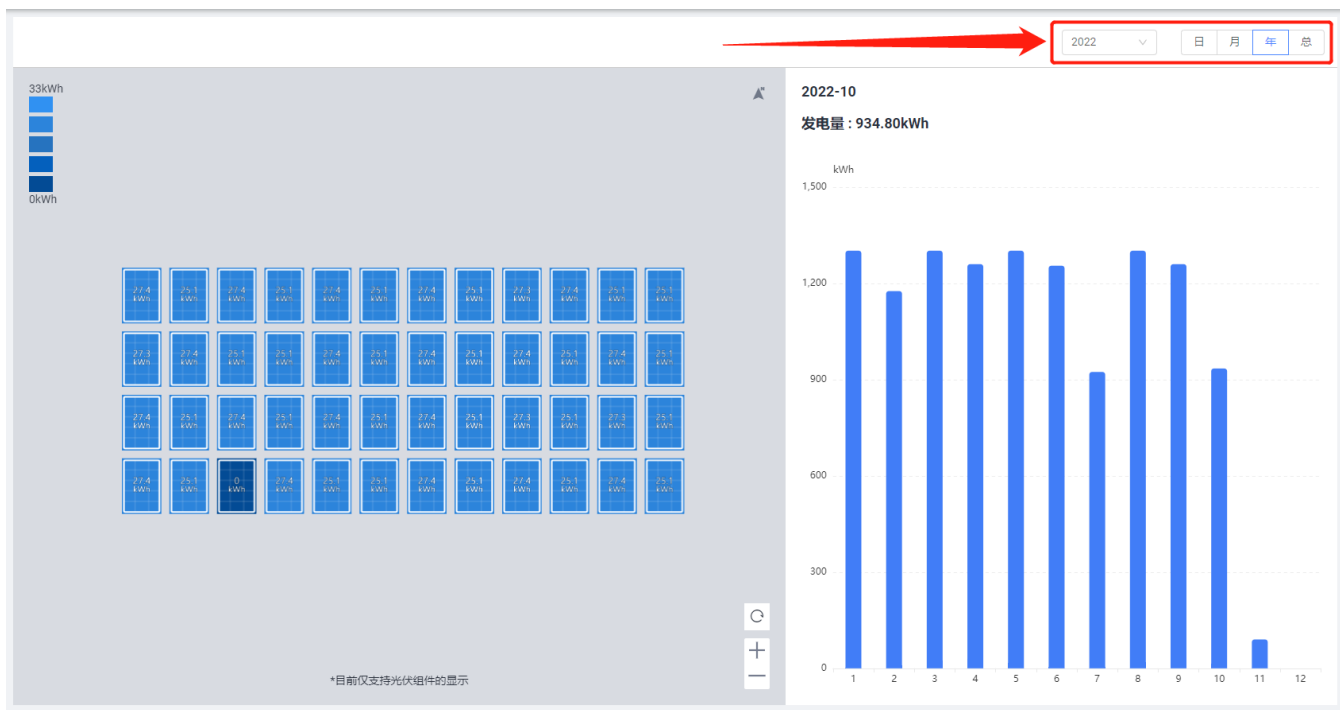
### Functional Overview



- Date selection** : When you need to view the generation power history records of different dates, you can select the date in the upper right corner, including day, month, year, total and specific dates. The system will display the generation power records of the corresponding PV modules according to your selection, as

## 1.2 My plant

shown in the figure:



- **Component Details** : Select and click the photovoltaic modules in the array to jump to the corresponding details page, which supports viewing device data and connection information, as shown in the figure:



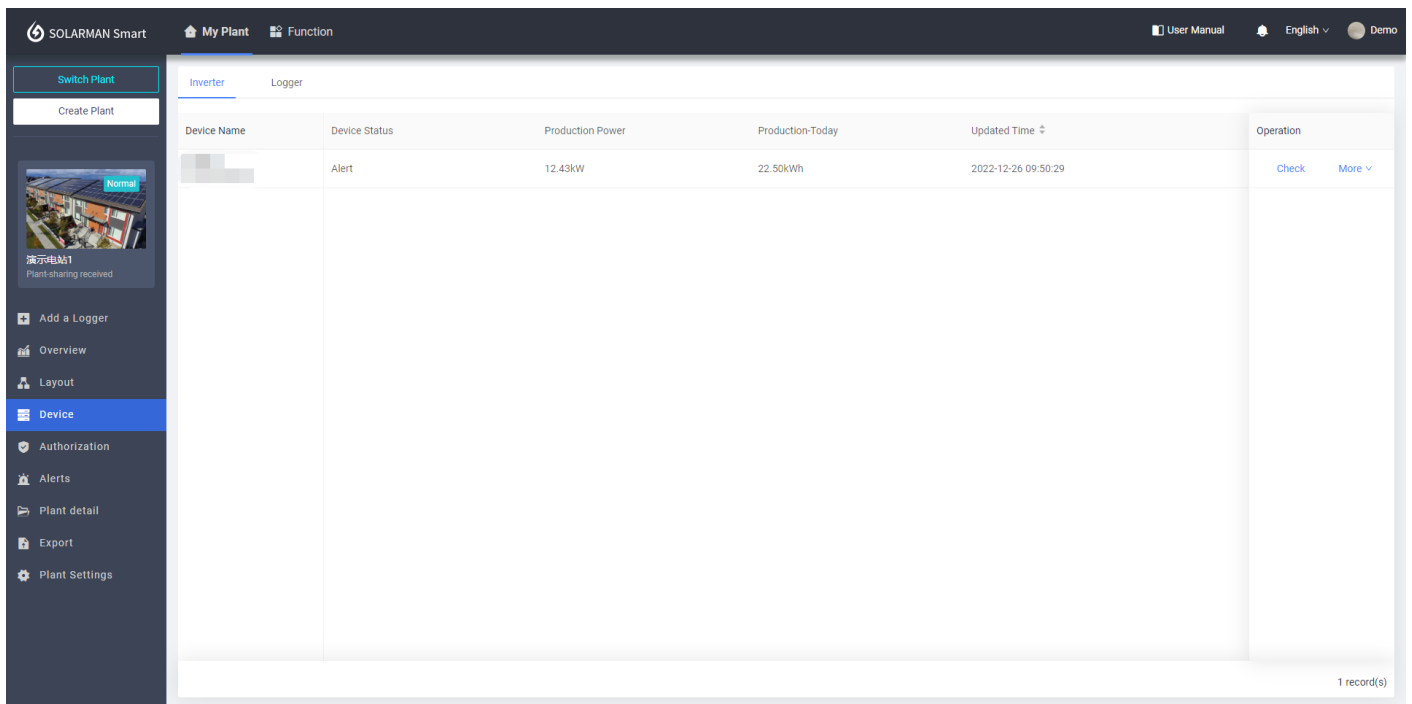
## Layout related

1. Device
2. Layout

## 1.2.4 Device

In the Device module, you can view the information of the equipment under the power station, and support viewing the specific information of the equipment, including real-time parameters and some statistical charts. Through these data, you can determine whether the equipment is in normal working state. In addition, on this page, you can configure the electricity meter, select the associated equipment from the collector, and unbind the equipment.

### Functional Overview



Device Name	Device Status	Production Power	Production-Today	Updated Time	Operation
	Alert	12.43kW	22.50kWh	2022-12-26 09:50:29	Check More

- **Check** : When you need to view the equipment information, you can select and click the **【Check】** button in the operation bar of the data list to jump to the details page of the corresponding equipment, including the equipment data and connection information, as shown in the figure:

## 1.2 My plant

Device Name	Device Status	Production Power	Production-Today	Updated Time	Operation
[Redacted]	Alert	12.43kW	22.50kWh	2022-12-26 09:50:29	<a href="#">Check</a> <a href="#">More</a>

InverterINVERTER4001 ● Alert 2022-12-26 09:55:29

**Basic Information**  
SN: [Redacted] Rated Power: 597.8kW

**Version Information**  
Software Master Version: V2.41.76 Software Vice Version: V2.41.76 HMI Version: V1.15  
Upgrade Flag Bit: 0

**Electricity Generation**

DC	Voltage	Current	Power
PV1	483.30V	5.90A	2.85147kW
PV2	490.40V	5.20A	2.55008kW
PV3	483.30V	5.90A	2.85147kW
PV4	490.40V	5.20A	2.55008kW

Total DC Input Power: 10.80kW Total AC Output Power (Active): 12.34kW Peak Active Power: 12.43kW  
Cumulative Production (Active): 13.15MWh Daily Production (Active): 23.40kWh

**Power Grid**

AC	Voltage	Current	Frequency
R	235.30V	7.30A	49.95Hz
S	234.20V	7.30A	--
T	234.90V	7.20A	--

- **More** : Select different device types, which are different in more operations. To perform more operations on the device data, you can select and click the **More** button in the data list operation bar. You can select **Edit** , **Unbind** , **Sub device Adding** , **Meter configuration** and other functional operations, as shown in the figure:

Device Name	Device Status	Updated Time	Operation
[Redacted]	Online	2022-12-26 09:55:29	<a href="#">Check</a> <a href="#">More</a> <a href="#">Edit</a> <a href="#">Unbind</a> <a href="#">Sub-device Adding</a>

1. **Edit** : Select and click the **Edit** button to edit and modify the device name

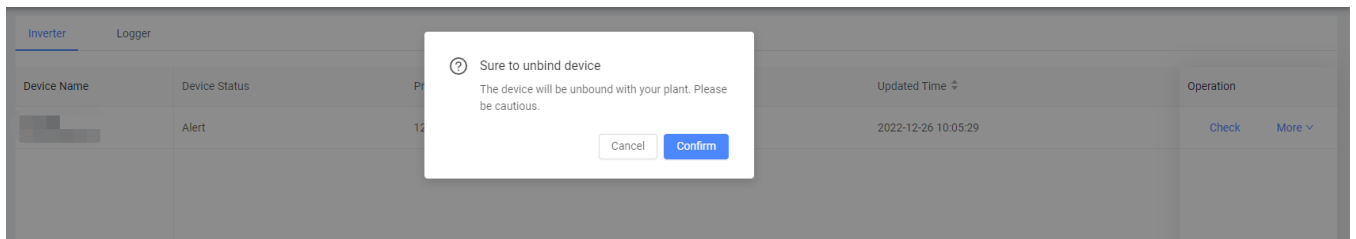
Device Name

Device Name :

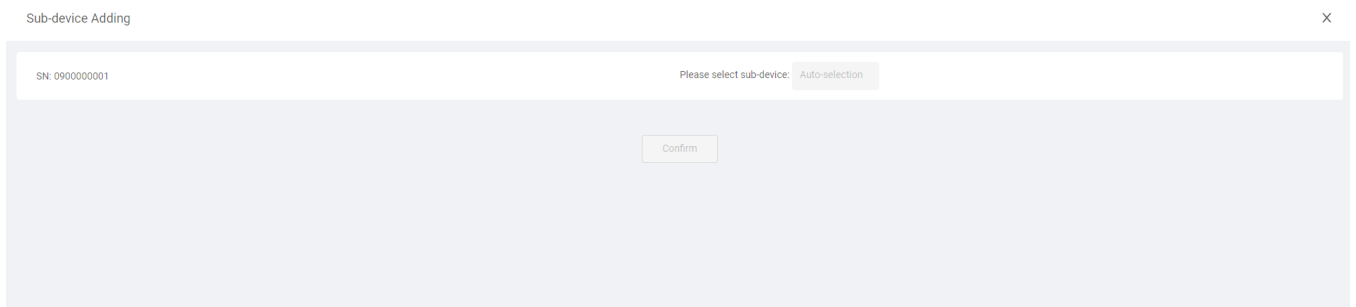
[Cancel](#) [Confirm](#)

## 1.2 My plant

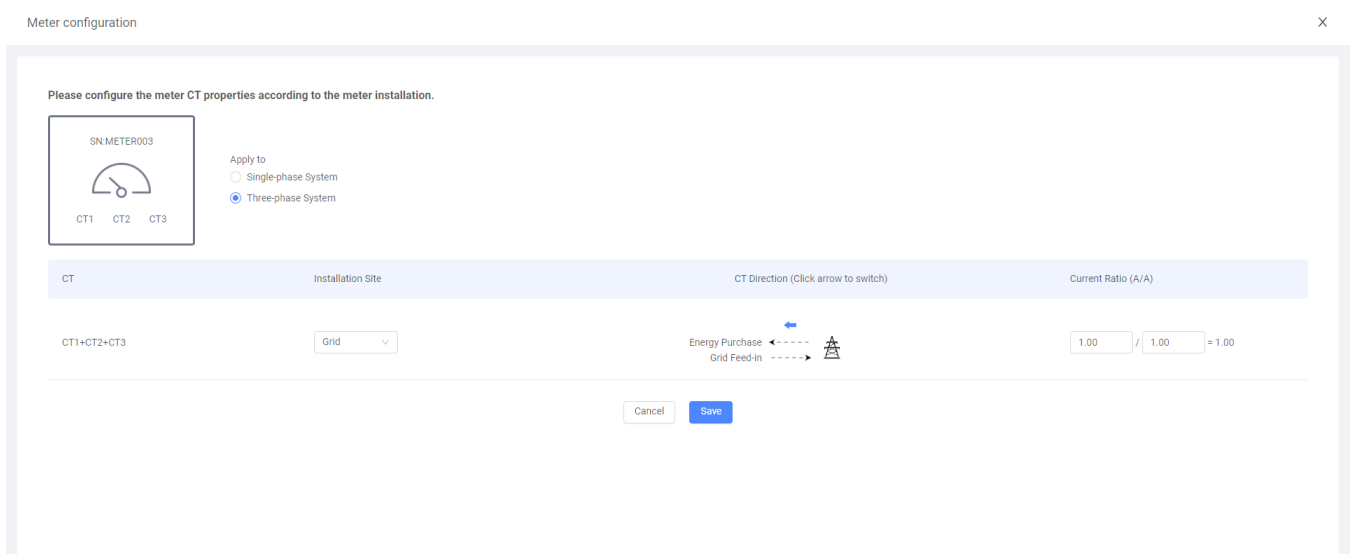
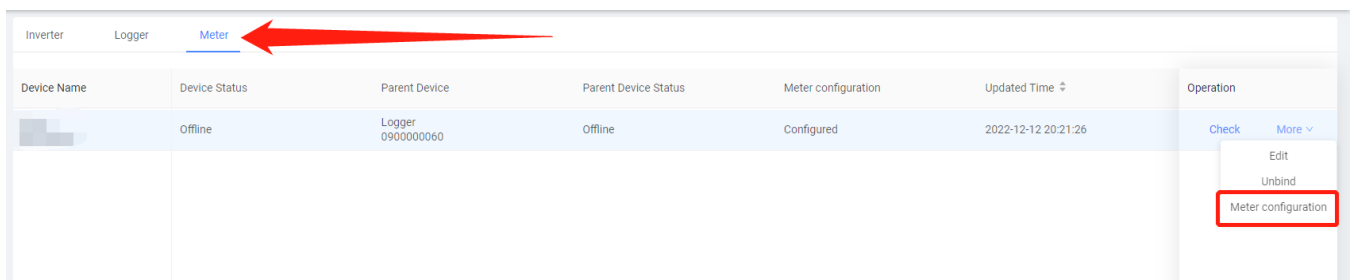
### 2. Unbind : Select and click the **【Unbind】** button to unbind the device



### 3. Sub-device Adding : At present, **【Sub device Adding】** only supports the operation of collector devices, and supports viewing the device information associated with the collector



### 4. Meter configuration : When the selected device type is "Meter", click the "More" operation to display the **【Meter configuration】** button, which supports adjustment and viewing of the configuration information of the electricity meter.



## Device related

### 1. Add a Logger



1.2 My plant

2. Authorization

## 1.2.5 Authorization

In the Authorization module, you can see the authorization information of the current power station, and support such functional operations as adding authorization, revoking authorization, and switching identities. Then, according to the classification of power station permissions, it can be roughly divided into two categories: power stations created by yourself and power stations authorized by others.

### Authorization Classification

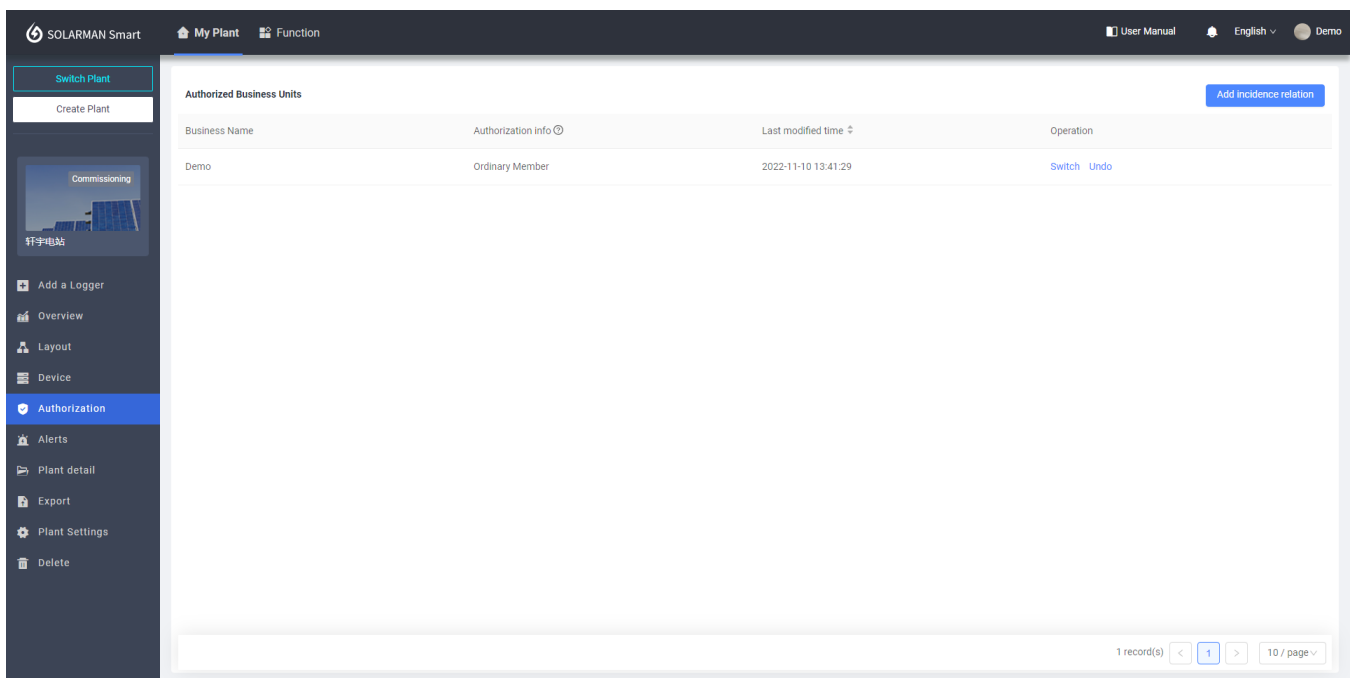
- **1、 Self created plant**

Through the authorization steps on the following page, you can authorize the power station to some merchants who serve you, and the authorized merchants can view the data and operate the equipment of your power station.

The scope of authorization of the merchant depends on your identity:

( 1 ) Give the merchant the identity of "Organizational Member", and the merchant can view all data of the power station

( 2 ) The identity of the merchant is "Admin", and the merchant can view all data of the power station and operate the power station and its equipment



- **Add incidence relation** : When your power station needs collaborative management, you can select the **【Add incident relationship】** button at the upper right corner to jump to the corresponding Plant

## 1.2 My plant

Authorization page. Please complete the authorization operation according to the process.

Authorized Business Units				<a href="#">Add incidence relation</a>
Business Name	Authorization info ⓘ	Last modified time ↕	Operation	
Demo	Ordinary Member	2022-11-10 13:41:29	<a href="#">Switch</a> <a href="#">Undo</a>	

### 1. Please enter the name or keyword of the merchant

Plant Authorization ×

1 ————— 2 ————— 3

Please enter business name or key word first:

Search

### 2. Select authorized merchants

Plant Authorization ×

1 ————— 2 ————— 3

LOGO

LOGO

LOGO

LOGO

LOGO

LOGO

LOGO

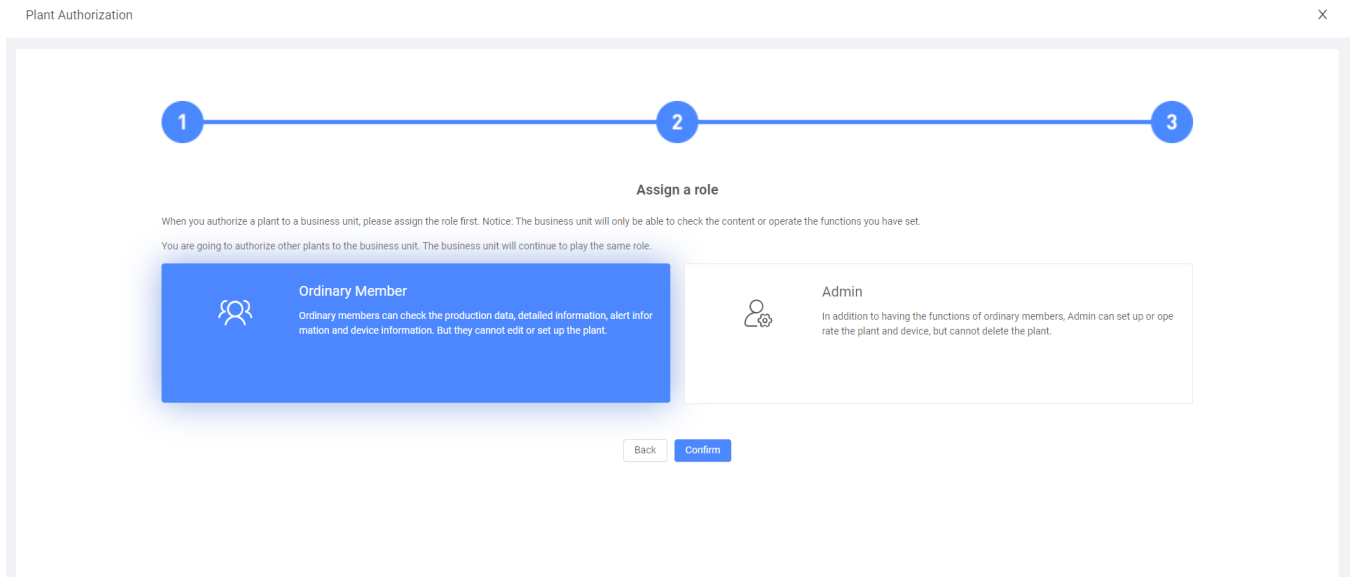
LOGO

LOGO

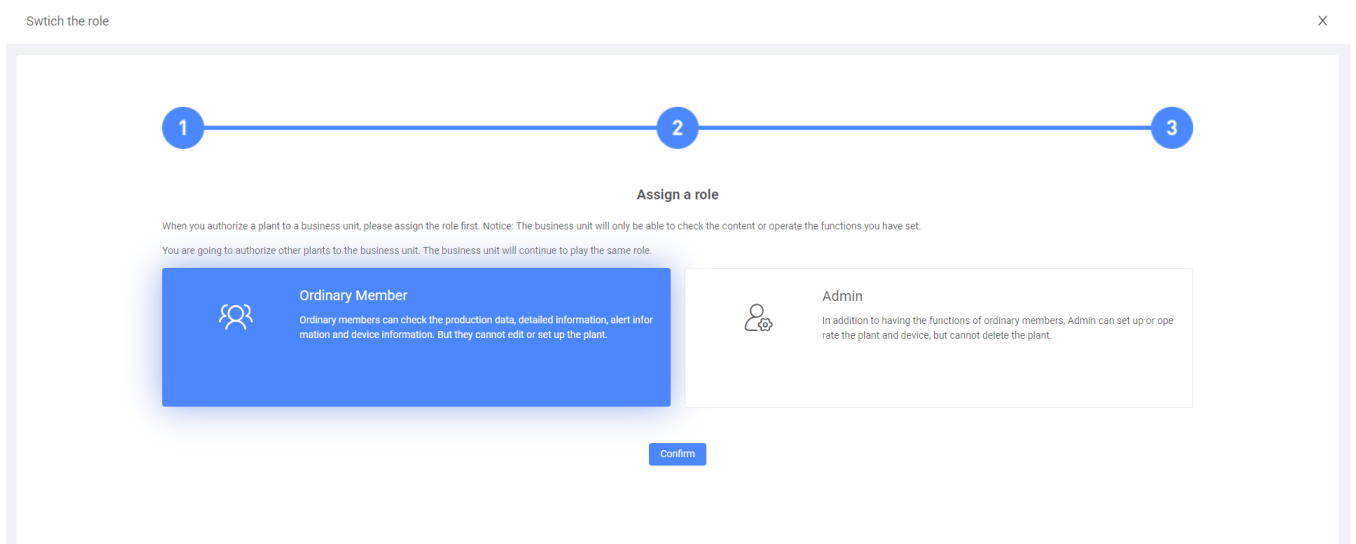
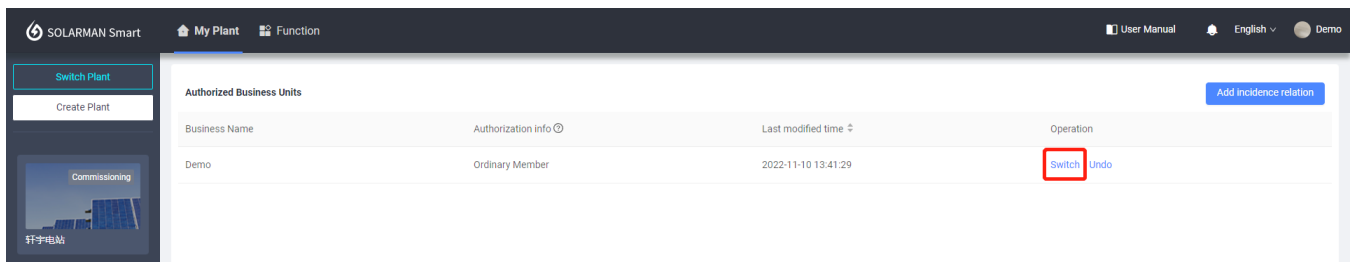
25914 record(s) < 1 2 3 4 5 ... 2880 >

Back Confirm

## 3. Please assign the merchant authorization identity

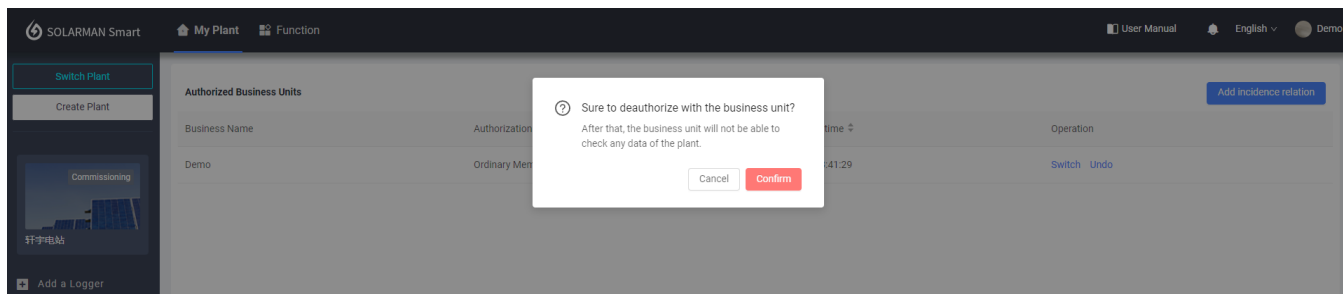
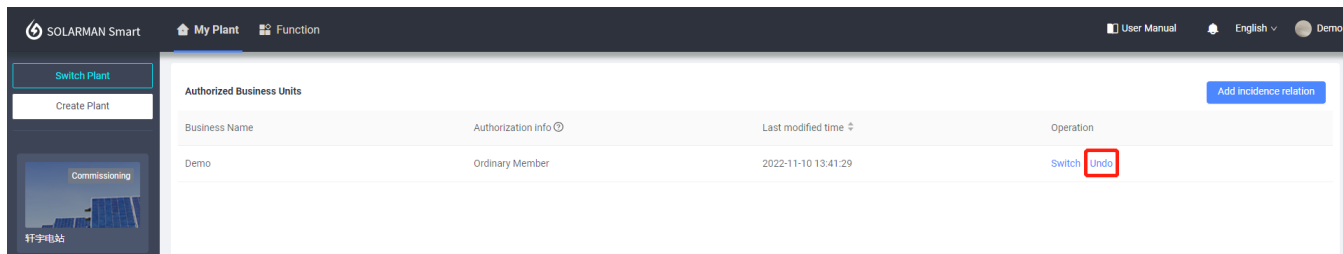


- **Switch** : When you are the admin of the power station and want to adjust the identity of the authorized merchant, you can select the **【Switch】** button in the operation bar to jump to the identity switching page and support identity switching, as shown in the figure:



- **Undo** : If you need to cancel the authorized merchant, you can select the **【Undo】** button in the operation bar, and a prompt pop-up window will appear on the page. Select Confirm to cancel the authorization of the merchant, as shown in the figure:

## 1.2 My plant

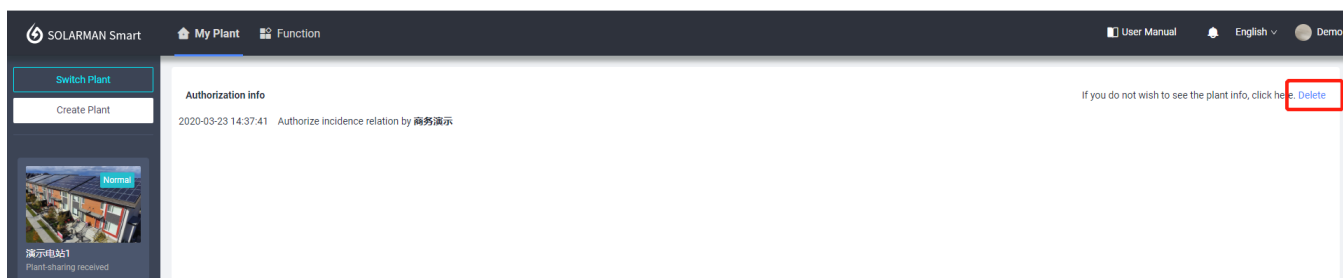


### • 2、 Merchant authorized plant

Currently, businesses are supported to authorize power stations to users, and users can view data and operate functions of power stations authorized by businesses, but only within the scope of permissions allowed by businesses.

If you don't want to pay attention to this power station, you can click **【Delete】** as shown in the figure below.

**Note: For the power station authorized by the merchant, the user can no longer authorize the power station to others**



## Authorization related

1. Alerts
2. Plant Details

## 1.2.6 Alerts

Select the Alerts module, and you can view all alarm information under the power station. The alarm information will distinguish the corresponding alarm level and influence range, so that you can quickly understand the importance of the alarm. Through these alarm messages, you can quickly locate whether the current power station is in a fault state, and help you deal with it in a timely manner to avoid property loss.

### Functional Overview

Alert Name	Device	Importance	Range of Influence	Push Approach	Last Alert Time	Operation
Grid OF		Warning	Influence Production		2022-12-26 13:10:32	Check
off-line		Warning	No influence		2022-12-25 18:19:27	Check
Grid OF		Warning	Influence Production		2022-12-01 07:17:29	Check
off-line		Warning	No influence		2022-11-30 18:26:44	Check
Grid OF		Warning	Influence Production		2022-11-01 07:21:24	Check
off-line		Warning	No influence		2022-10-31 18:19:50	Check
Grid OF		Warning	Influence Production		2022-10-01 07:43:54	Check
off-line		Warning	No influence		2022-09-30 18:27:30	Check
Grid OF		Warning	Influence Production		2022-09-01 07:47:50	Check
Grid OF		Warning	Influence Production		2022-08-01 07:43:03	Check
off-line		Warning	No influence		2022-07-09 11:50:18	Check
Grid OF		Warning	Influence Production		2022-07-01 07:57:58	Check
off-line		Warning	No influence		2022-06-17 14:21:21	Check
Grid OF		Warning	Influence Production		2022-06-01 07:57:33	Check

- **Alerts Filter** : On the Alerts page, you can filter the data through the device type, alarm level and alarm time options, so that you can quickly query the corresponding alarm data information, as shown in the figure:

Alert Name	Device	Importance	Range of Influence	Push Approach	Last Alert Time	Operation
Grid OF		Warning	Influence Production		2022-12-26 13:10:32	Check
off-line		Warning	No influence		2022-12-25 18:19:27	Check
Grid OF		Warning	Influence Production		2022-12-01 07:17:29	Check
off-line		Warning	No influence		2022-11-30 18:26:44	Check

- **Check** : When you need to view the details of alarm information, you can select and click the **【Check】** button in the data list operation bar to jump to the corresponding alarm information details page, including alarm overview, problem description, causes and measures, time distribution, etc., as shown in the figure:

## 1.2 My plant

Device Type: All Importance: All Time: All

Alert Name	Device	Importance	Range of Influence	Push Approach	Last Alert Time	Operation
Grid OF		Warning	Influence Production		2022-12-26 13:10:32	<a href="#">Check</a>
off-line		Warning	No influence		2022-12-25 18:19:27	<a href="#">Check</a>
Grid OF		Warning	Influence Production		2022-12-01 07:17:29	<a href="#">Check</a>
off-line		Warning	No influence		2022-11-30 18:26:44	<a href="#">Check</a>

Grid OF

### Alert Overview

Plant Name: 演示电站1 Device Name: Inverter SN: INVERTER4001  
Range of Influence: Influence Production Importance: Warning Last Alert Time: 2022-12-26 13:45:33

Problem Description	Reasons&Solutions
-	-

### Time Distribution

Grid OF

00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 23:59

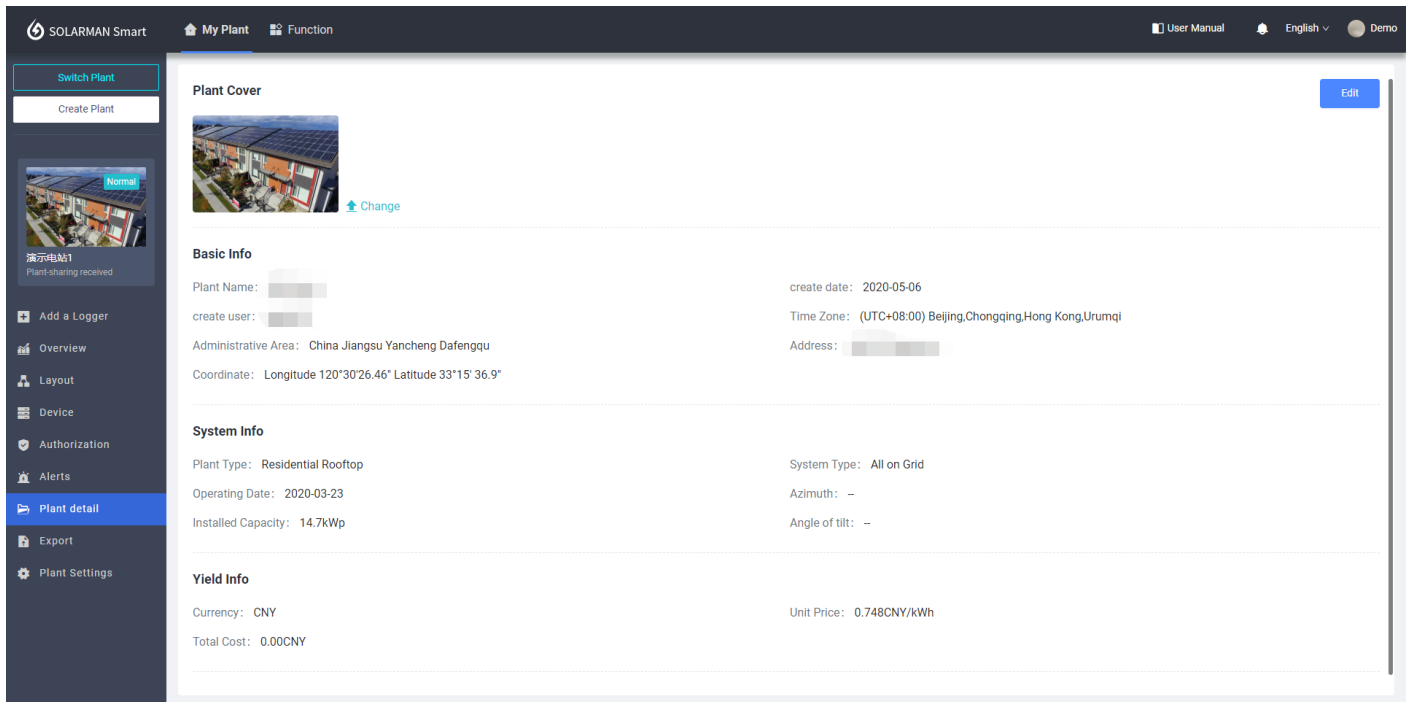
## Alerts related

1. [Plant Details](#)
2. [Device](#)

## 1.2.7 Plant Details

The Plant Details module is used to display the cover, basic information, system information and revenue information of the power station, so that users can quickly understand the information and management of the power station, and support the functional operation of replacing the cover picture of the power station and editing the information of the power station.

### Functional Overview



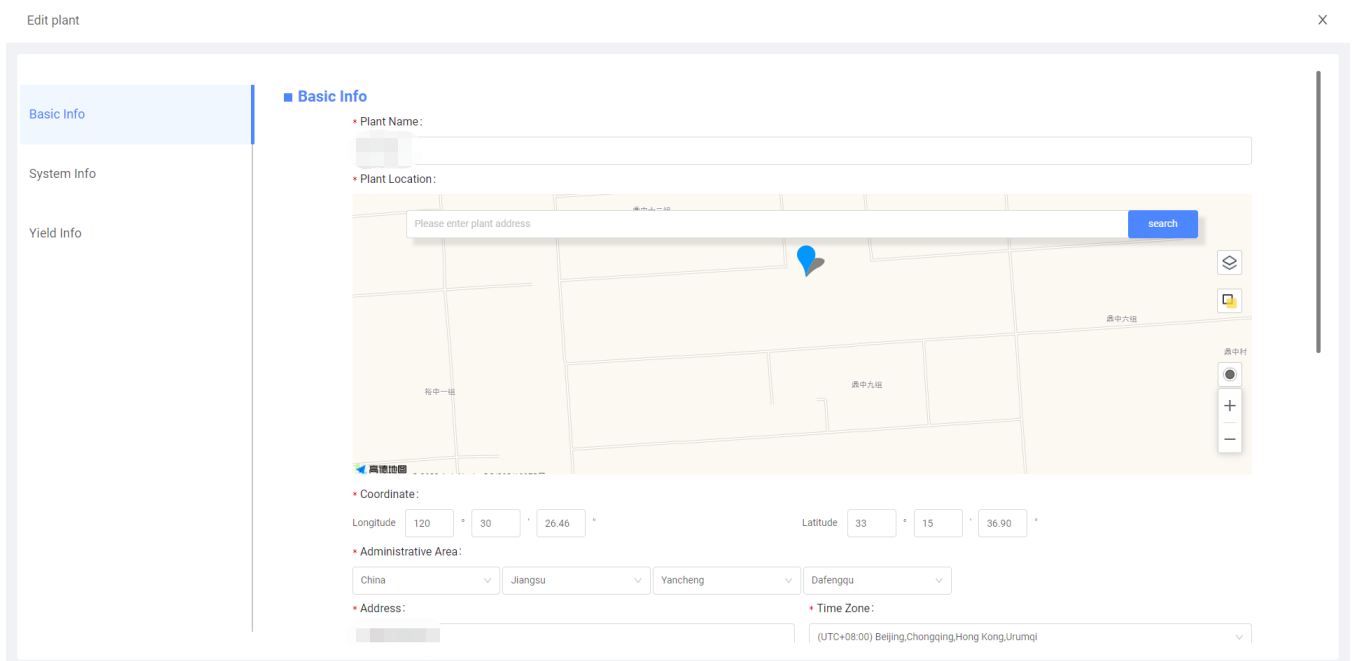
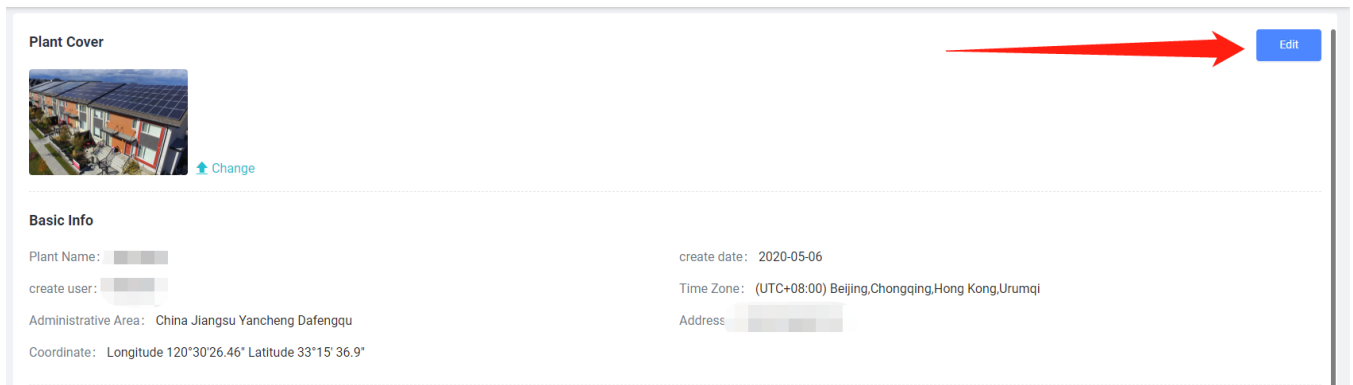
- **Change** : When you need to replace the cover photo of the power station, you can choose to click the **[Change]** button, and the page will display the operation window. You can upload the corresponding picture to replace the cover photo of the power station, as shown in the figure:





## 1.2 My plant

- **Edit** : If you want to adjust and maintain the information of the power station, you can click the **【Edit】** button at the upper right corner to jump to the editing power station page, which supports the modification of power station data, as shown in the figure:



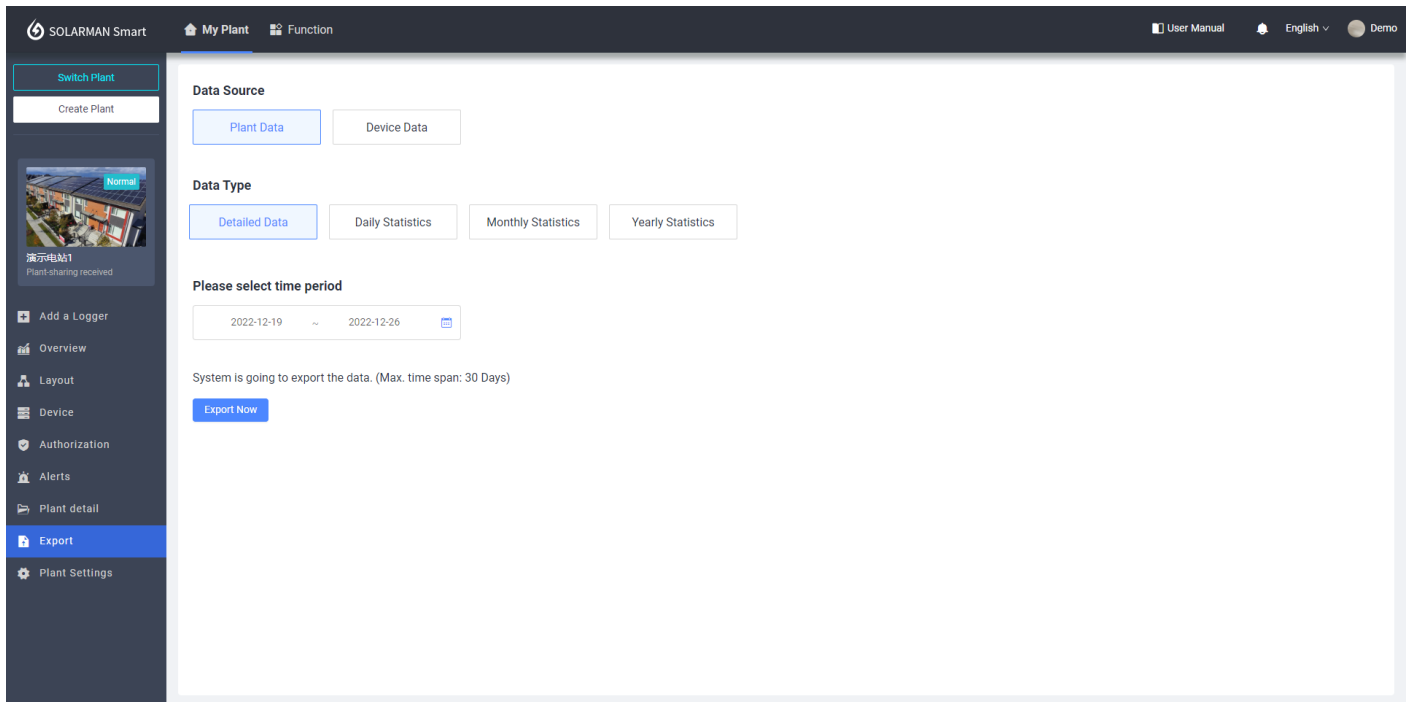
## Plant Details

1. [Export](#)
2. [Plant Settings](#)
3. [Overview](#)

## 1.2.8 Export

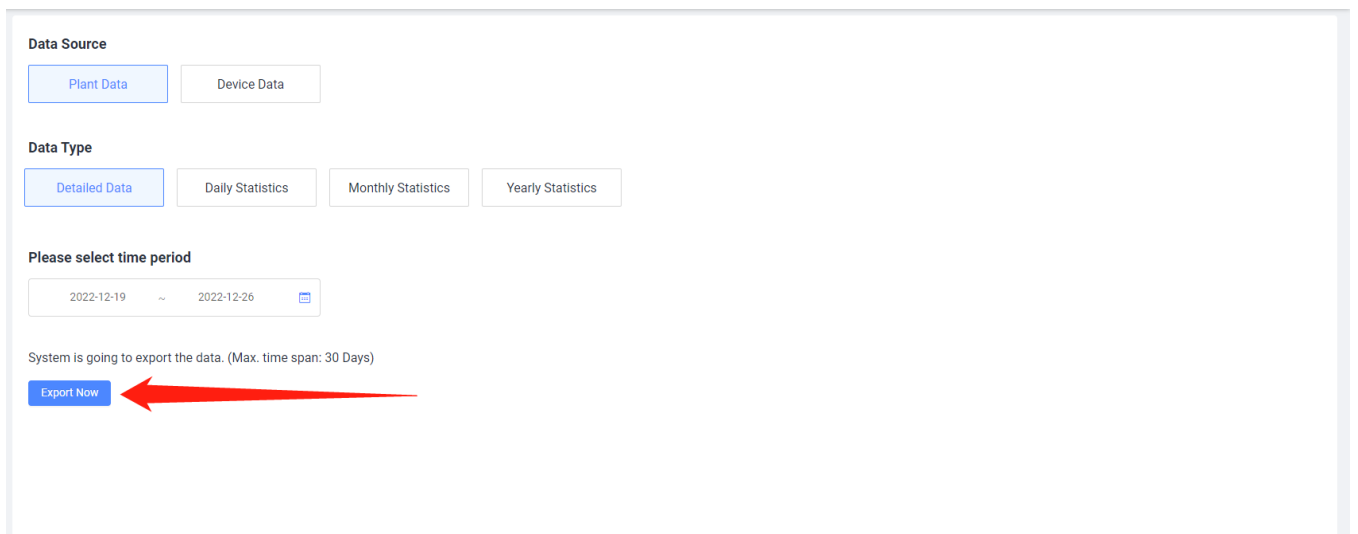
In the Export module, you can export the summary data statistics of the power station, including "Plant Data" and "Device Data", and then select the export data type and time period to export the data statistics within the above time range for you, which is conducive to the analysis and management of power station data.

### Functional Overview



- **Export Now** : After selecting the export data, export type and time period, you can select the **Export Now** button to export the selected parameters. The exported files can be downloaded, as shown in the figure:

**Note:** The export time period can export data for up to 30 days at a time



### Export related

## 1.2 My plant

1. [Plant Settings](#)
2. [Overview](#)

## 1.2.9 Plant Settings

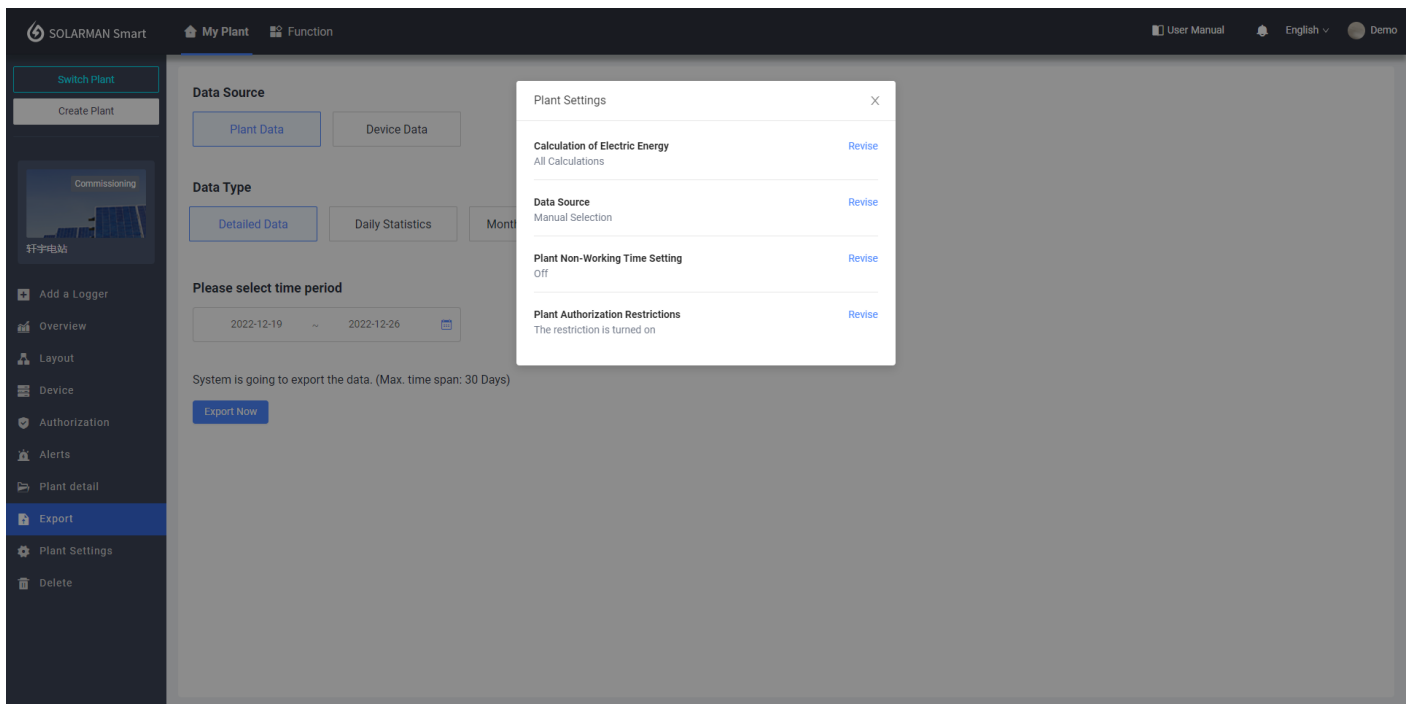
In Plant Settings, you can modify and adjust the basic settings of the power station, including Calculation of Electric Energy, Data Source, Plant Authorization Restrictions, and Plant Non Working Time Setting. When you meet the preconditions for setting the power station, you can set the corresponding functions.

### Prerequisite

Plant Settings can be performed when you meet any of the following conditions:

- ( 1 ) Plant is created through your current login account
- ( 2 ) The plant is obtained through the authorization of the vendor, and includes the authority to set the plant

### Functional Overview

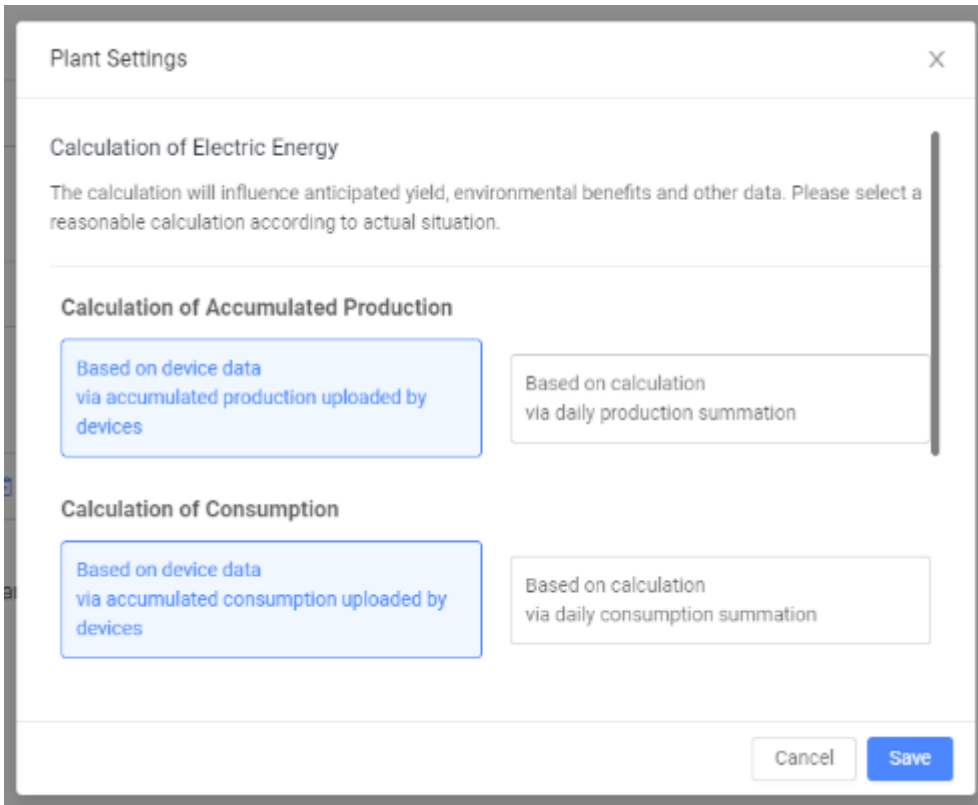


- **Calculation of Electric Energy** : Select the **【Revise】** button of the electricity calculation method, you can set the value rules of the production, consumption, grid feed in, energy purchased, charging energy, and discharging energy of the power station. The default value rules selected by the system are "via accumulated production uploaded by devices", and you can manually change them to "via daily production summary", The system will no longer use the accumulated data uploaded by the equipment as the benchmark, but use the data calculated by the platform instead.

**Data calculated by the platform=sum of daily data uploaded by the device within the selected time period**

For example, the cumulative power generation in the last 30 days=the power generation on June 1+the

power generation on June 2+...+the power generation on June 30



- **Data Source** : Select the **【Revise】** button of the Data Source, you can set the data sources of the current power station in four aspects: power generation, power grid, power consumption, and battery, so that the results of the system in the statistics of power station data can be more accurate and conform to the actual use of your system.

The setting mode of power station data source is Intelligent Selection by default. The system will select each data source according to the actual situation of your plant, and you can also make reasonable manual adjustment according to your actual situation.

Plant Settings X

**Data Source**  
Intelligent Selection

Intelligent Selection  
System will select data source intelligently during the normal communication.

Manual Selection  
Users can select data source of relative devices manually

---

Current Settings

Production	None
Grid	None
Consumption	None

Plant Settings X

**Manual Selection**

Intelligent Selection  
System will select data source intelligently during the normal communication.

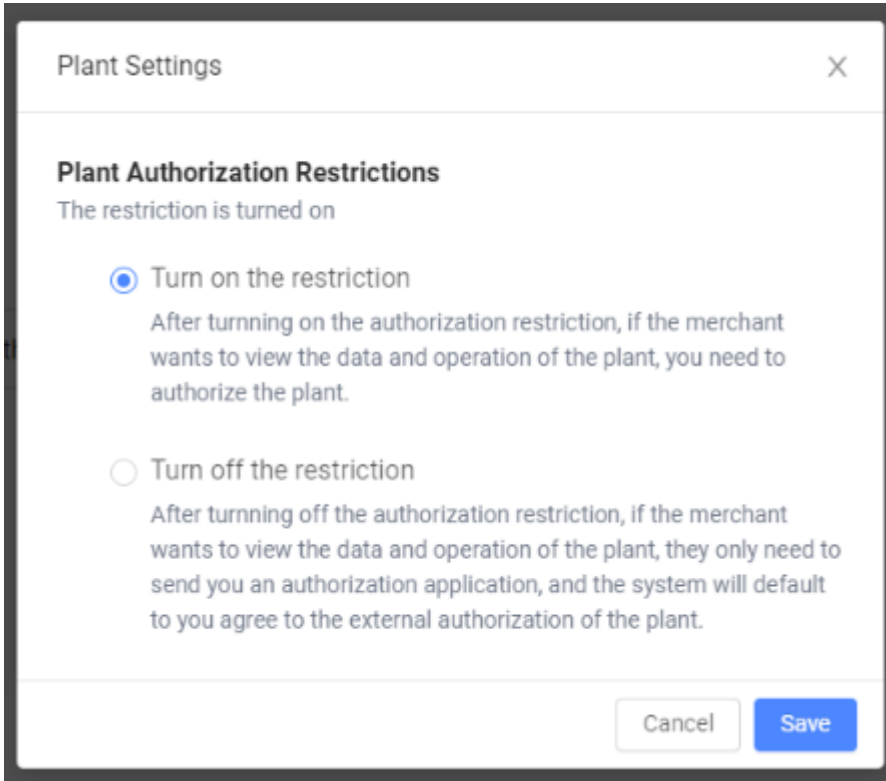
Manual Selection  
Users can select data source of relative devices manually

---

Current Settings

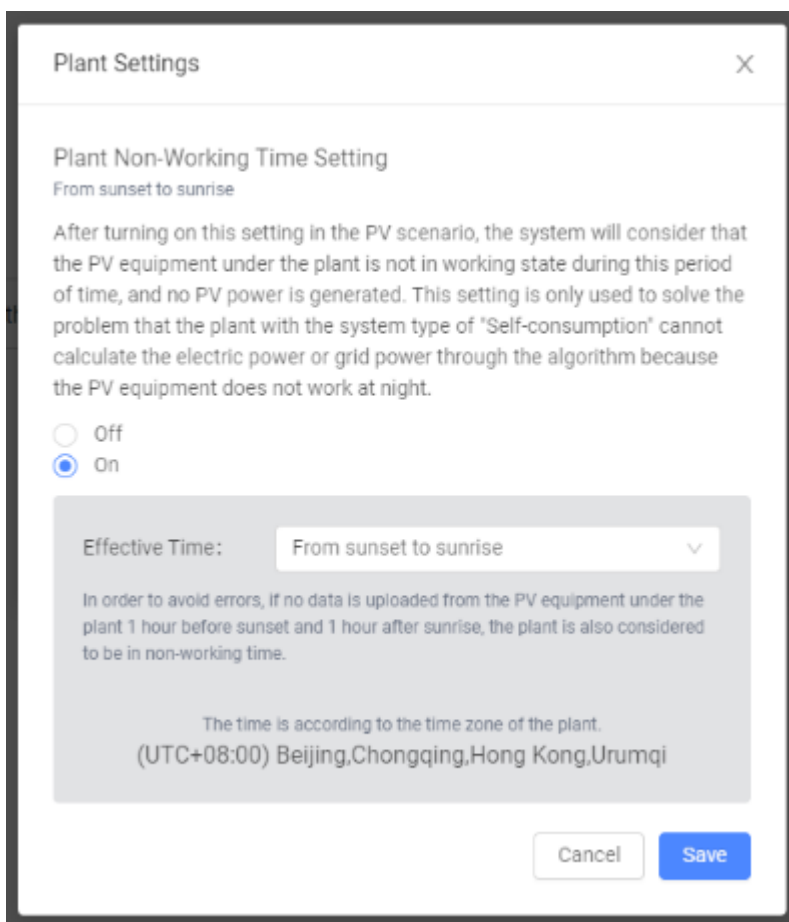
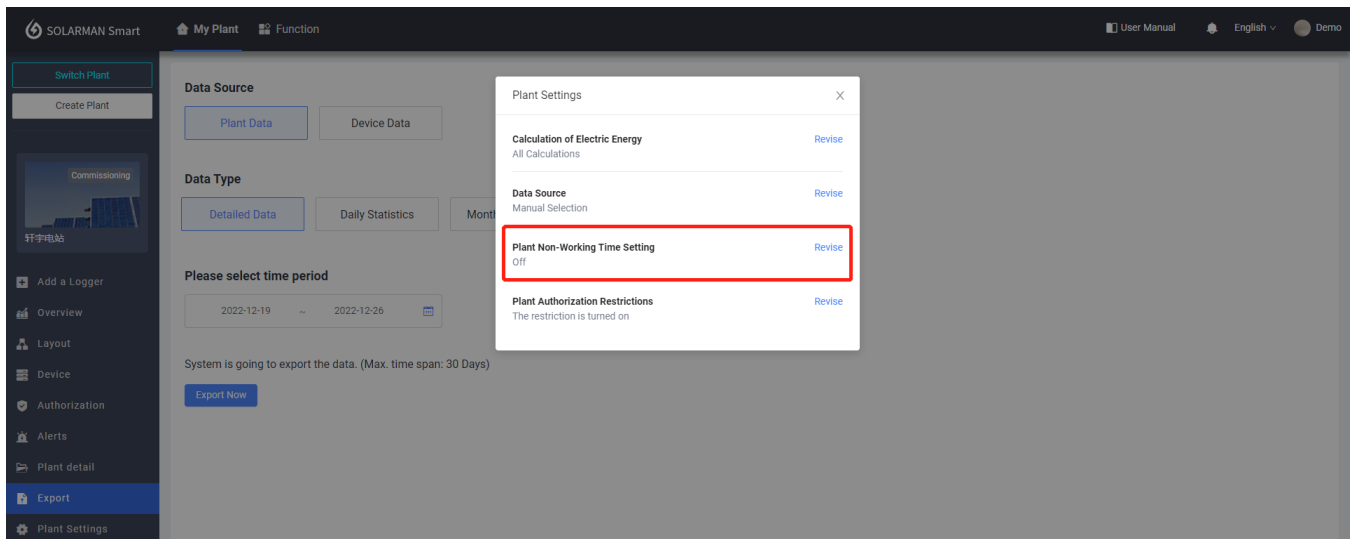
- **Plant Authorization Restrictions** : Select the **【Revise】** button of the power station authorization limit, you can limit the authority of the authorized merchants, support the "Turn on the restriction" and "Turn off the restriction" function operations, and you can select whether to restrict the authorization of the power station

as required.



- **Plant Non-Working Time Setting** : In Plant Settings, when the system type of the plant is selected as "Self consumption", the option of "Plant Non Working Time Setting" will be displayed. Click the **【Revise】** button to set the Plant Non Working Time to ensure the accuracy of data analysis and calculation of photovoltaic plant power consumption and grid power rate, as shown in the figure:

## 1.2 My plant

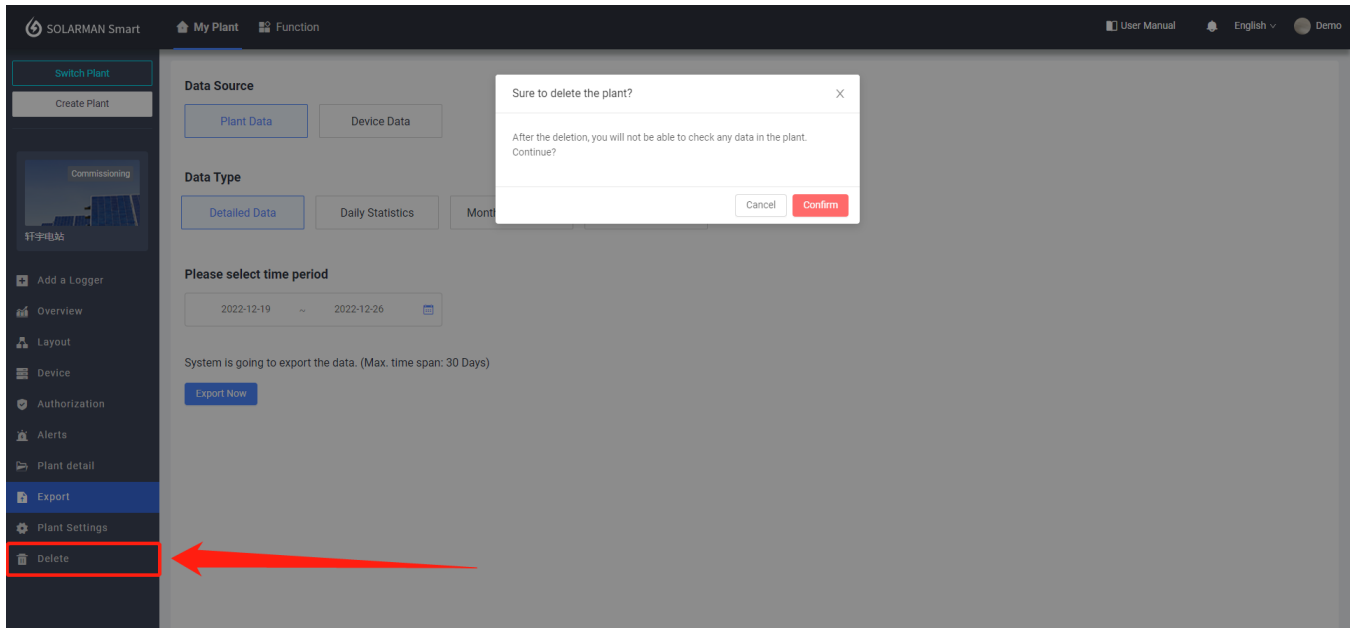


- **Delete** : If the power station is created through your currently logged in account, you can select the **[Delete]** function, and the page will display a prompt pop-up window. Select confirm to delete the power



## 1.2 My plant

station.



### Plant Settings related

1. [Overview](#)
2. [Alerts](#)
3. [Plant Details](#)

# 1.3 Function

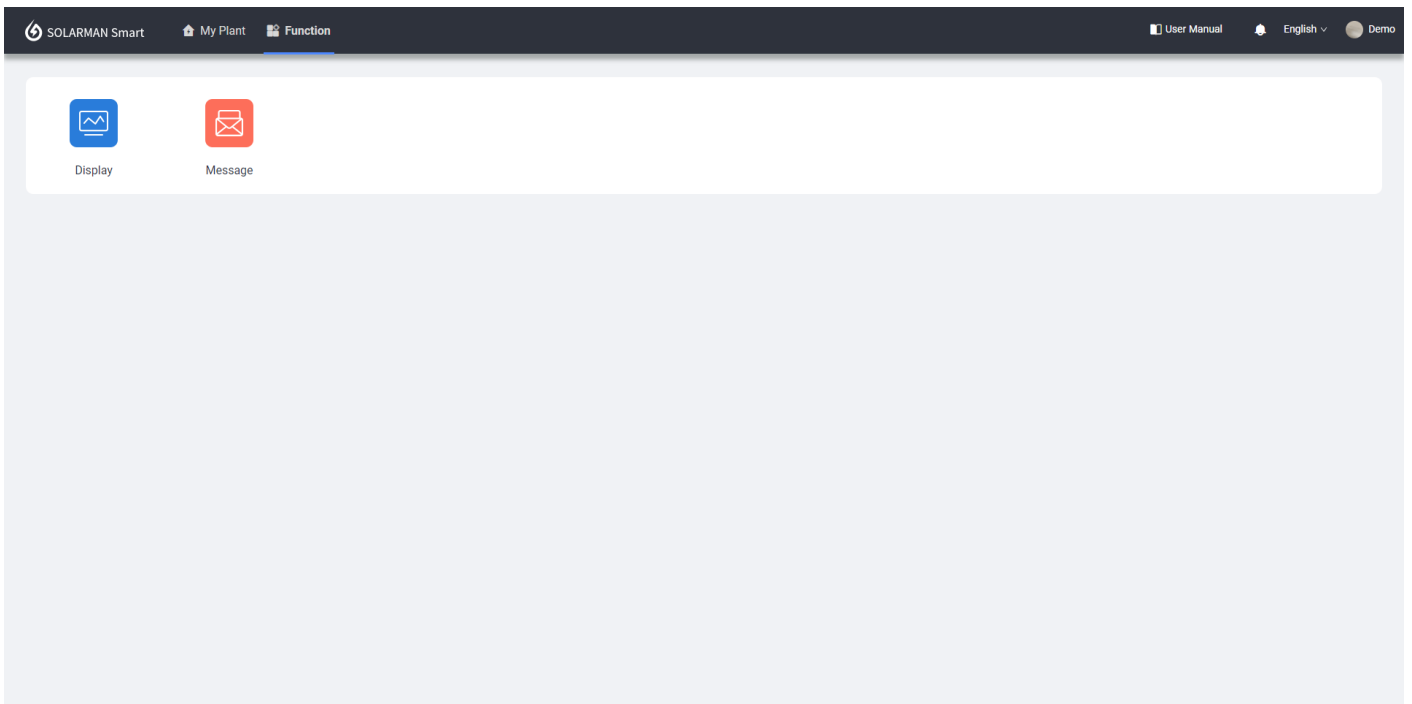
## Understanding Function

The functional application section is based on the entrance of summarizing relevant functional applications of SOLARMAN Smart, providing optimized application solutions for operators and terminal owners. In this section, application services associated with the power station can be quickly used, including viewing and using applications such as large screen demonstration and message services, so that users can complete corresponding operations without jumping to other platforms, Ensure the application of functional services under various scenarios in the daily operation and maintenance management of the power station.

## Business Scenario Description

In the process of using SOLARMAN Smart to manage the photovoltaic power station, the operator needs to understand or display the data of the power station owned by the enterprise more clearly and quickly. Therefore, the data can be analyzed and displayed with the help of the large screen demonstration service in the functional application section. The message service is based on the third-party service support needed in the daily operation and maintenance of the photovoltaic power station, and the convenient application of the terminal users can be realized through the functional application.

## Functional Overview



- **Application** : The currently supported application portals are shown in the figure. You can click to view the corresponding details as required.

[Display](#) | [Message](#)

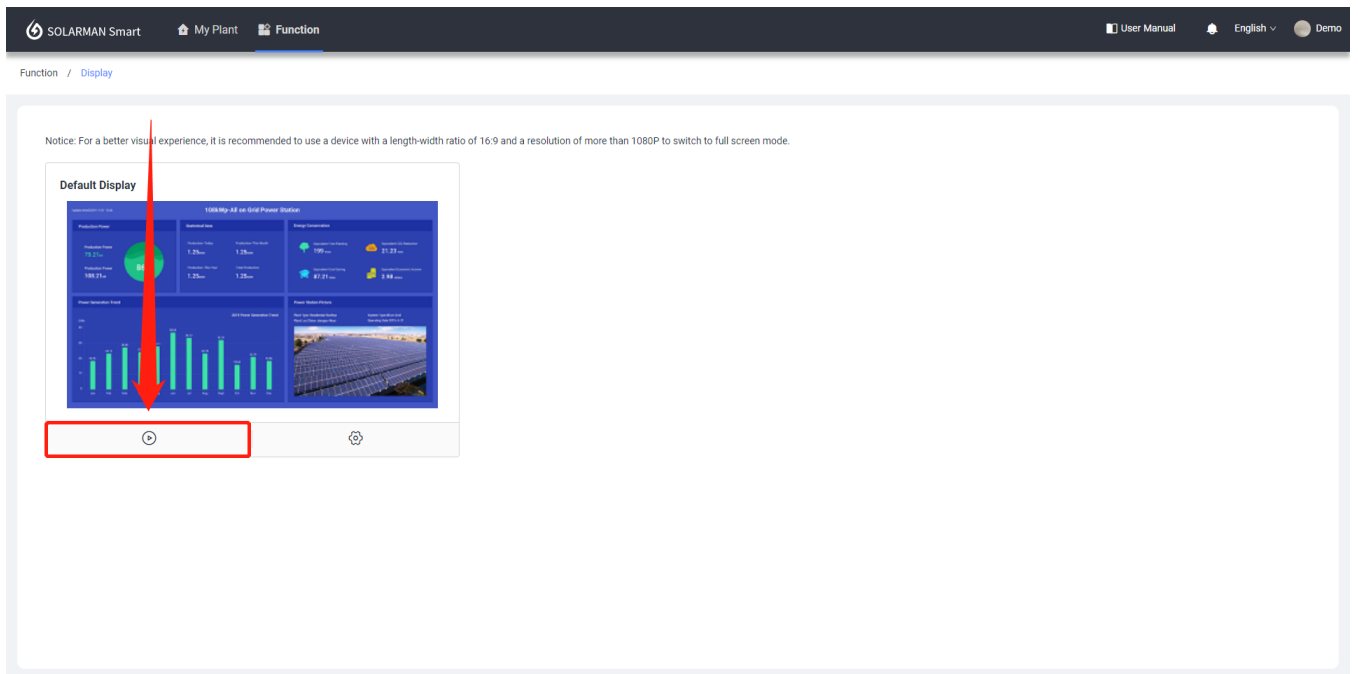
## 1.3.1 Display

The Display application is mainly used to help users quickly count and summarize the data of the power station, so as to facilitate viewing and use. At present, SOLARMAN Smart presets different types of large data screens for selection, and can also modify and adjust the name and logo of the display screen, which is convenient for external display and explanation while meeting the requirements of data statistics viewing.

### Display Preview

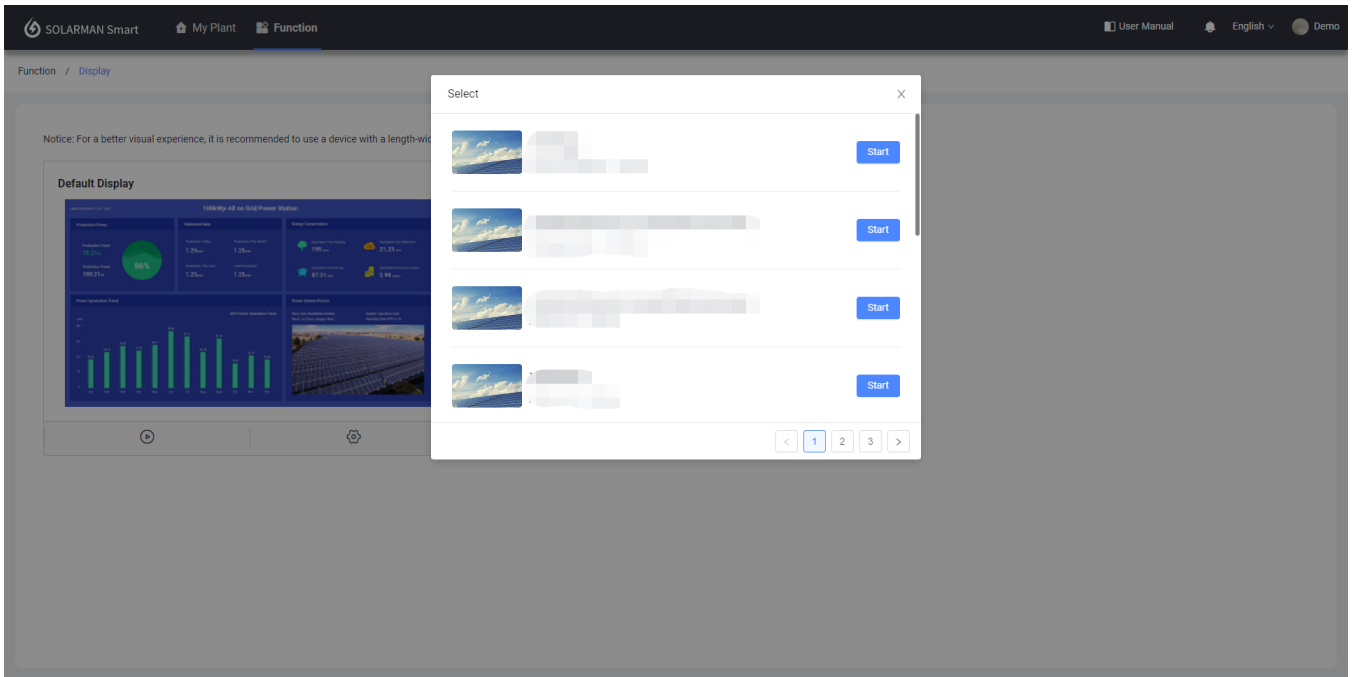
1. On the large screen demo page, select and click the **【Demo】** button of the system preset large screen

**Note: In order to ensure a better visual experience, it is recommended that you use a device with an aspect ratio of 16:9 and a resolution above 1080P to view the large screen.**



2. Select the power station you want to demonstrate in the pop-up window, and click **【Start】** of the corresponding power station

## 1.3 Function



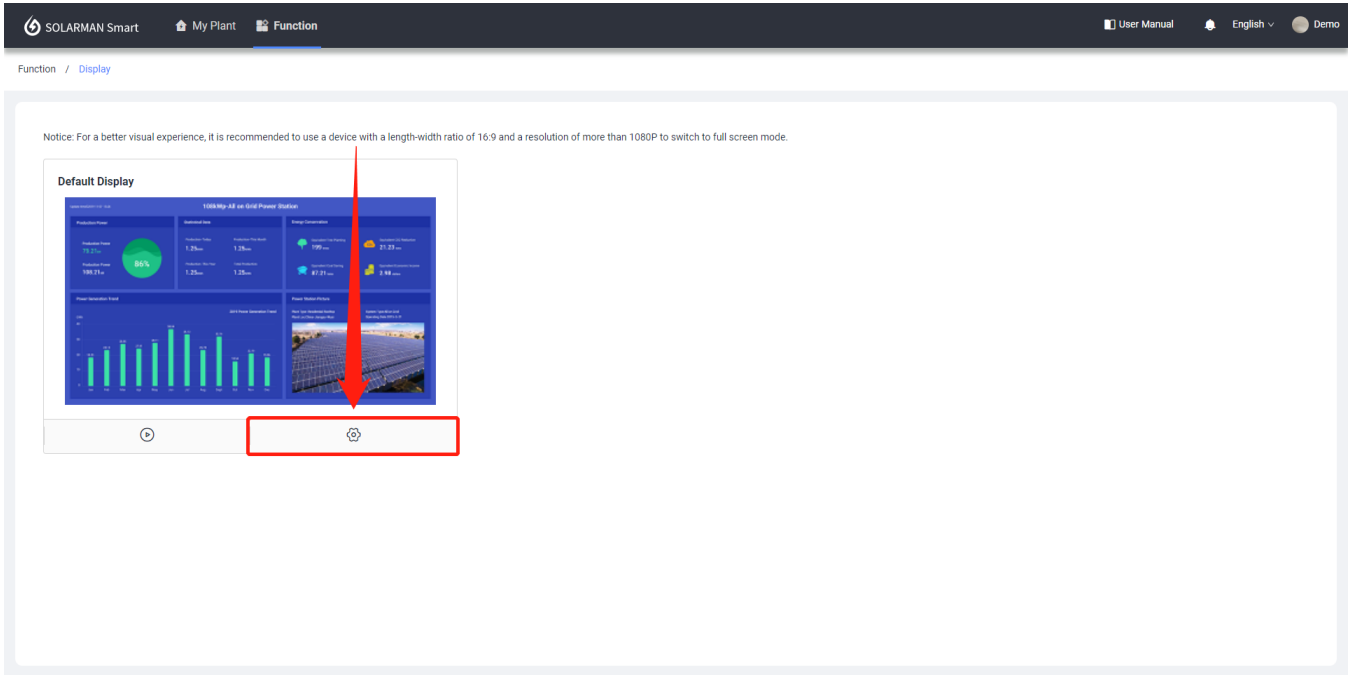
3. Start the large screen demonstration. You can display your power station data in full screen on the computer screen, LED large screen and other intelligent terminals through the large screen system preset by the system.



## Display Settings

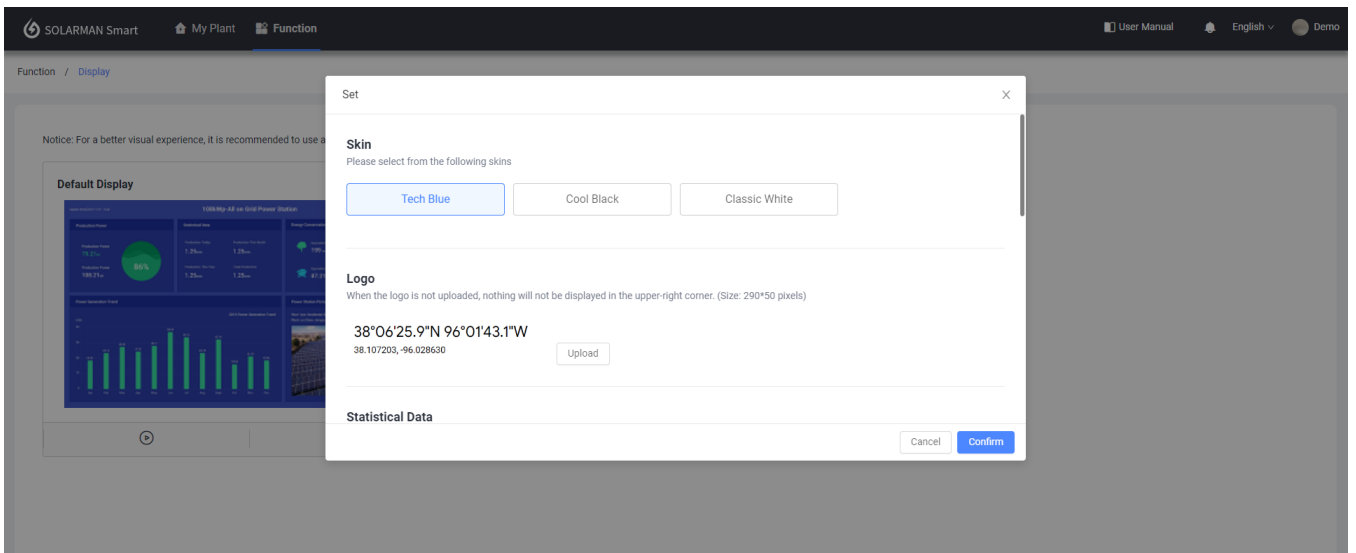
## 1.3 Function

1. On the large screen demo page, select and click the **【Settings】** button of the system preset large screen



2. At present, we support you to set the following content

- The skin color of the display is divided into "Tech Blue", "Cool Black" and "Classic White"
- Display Logo: supports you to upload customized logos for display
- Display fields of the data statistics module: freely selectable from the fields provided by the system
- Display fields of energy conservation and emission reduction module: freely selectable from the fields provided by the system
- Display fields of the trend chart module: freely selectable from the fields provided by the system



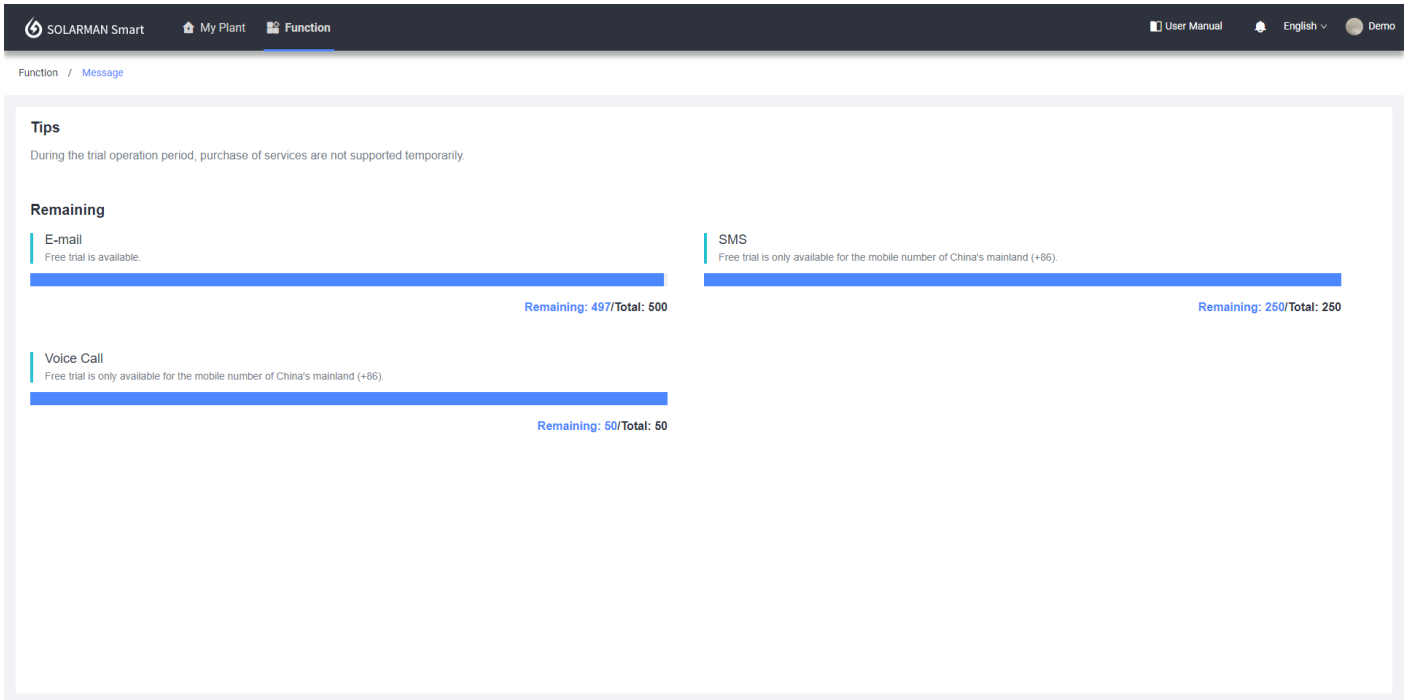
## Display related

1. Message

## 1.3.2 Message

The Message application is used to manage the message push service information of the photovoltaic power station. SOLARMAN Smart platform supports the push service of the alarm message of the power station. You can receive the alarm of the power station or equipment in a timely manner through email, mobile phone SMS, and telephone voice, so as to avoid the risk of damage or failure of photovoltaic property as much as possible.

### Functional Overview



#### • Message Service Description :

1. The three message receiving methods of email, SMS and voice call belong to charging service
2. At present, the platform is in the trial operation stage, and each account can enjoy a certain number of free message services, specifically 500 emails, 250 SMS messages (only mobile phone numbers in Chinese Mainland are supported), and 50 voice calls (only mobile phone numbers in Chinese Mainland are supported), until they are used up
3. In the future, we will gradually open the purchase function of the message service package and support the global mobile phone number. Please wait

### Message related

1. [Display](#)

# 1.4 Basic functions

## Understanding Basic functions

Basic functions are the introduction and description of the basic function operations of SOLARMAN Smart platform, which is convenient for users to monitor the operation and maintenance business in daily life, including common operations and personal centers. Please check the corresponding function operation instructions according to the prompts to deepen the understanding and use of SOLARMAN Smart platform.

## Business Scenario Description

1. When you are using SOLARMAN Smart platform for the first time, you may have doubts about some functions and business operations. You can view the "instructions" in the basic function service. You can select Chinese and English versions of the instructions to view, so as to meet the user's operation in different scenarios.
2. If you need to view or adjust the personal login account information, you can select "Personal Center" to view the corresponding operating instructions of relevant functions, so that you can maintain and manage your personal information and basic settings.

## Functional Overview

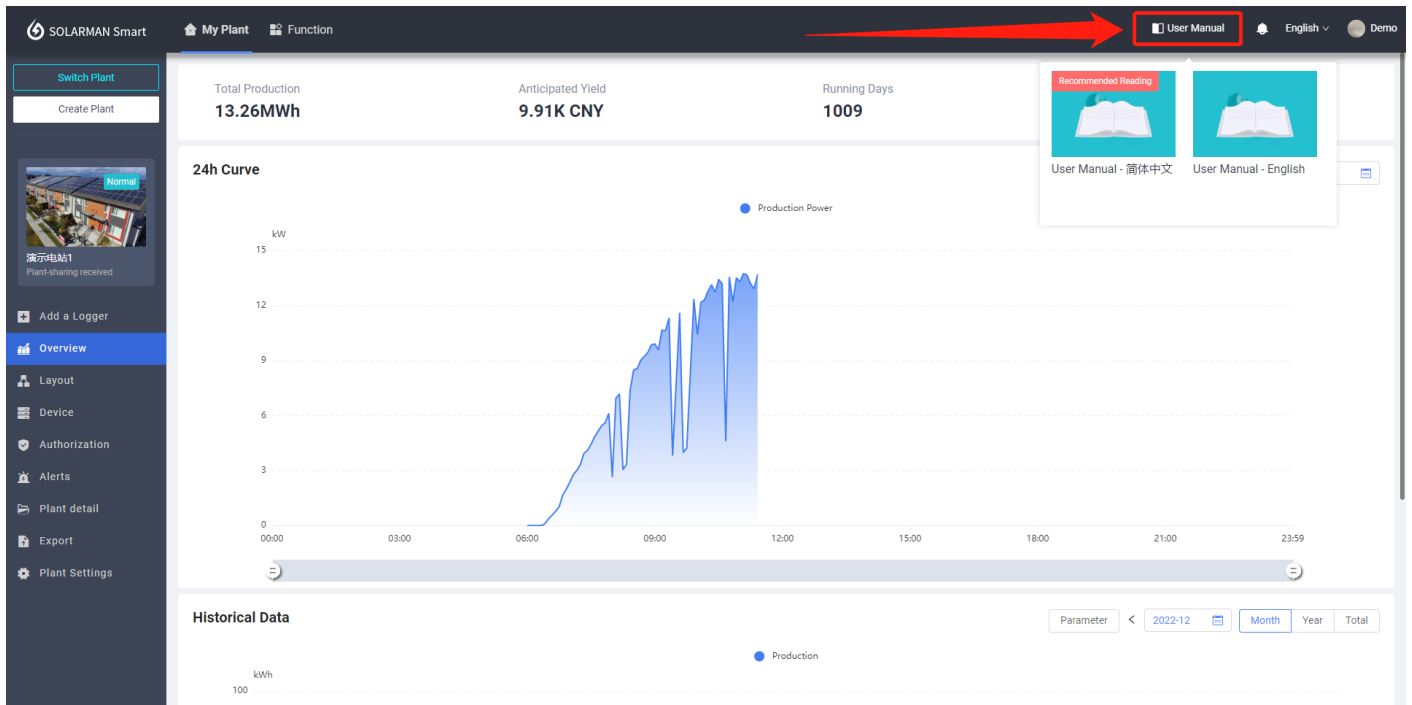


- [Common Operations](#) | [Personal Center](#)

# 1.4.1 Common Operations

## 1、 User Manual

When users use SOLARMAN Smart for the first time, they can select **【User Manual】** on the login page to display the corresponding Chinese and English function instructions. The system will recommend reading according to the region visited, view the corresponding documents as needed, and get familiar with and understand the functions and applications of SOLARMAN Smart.



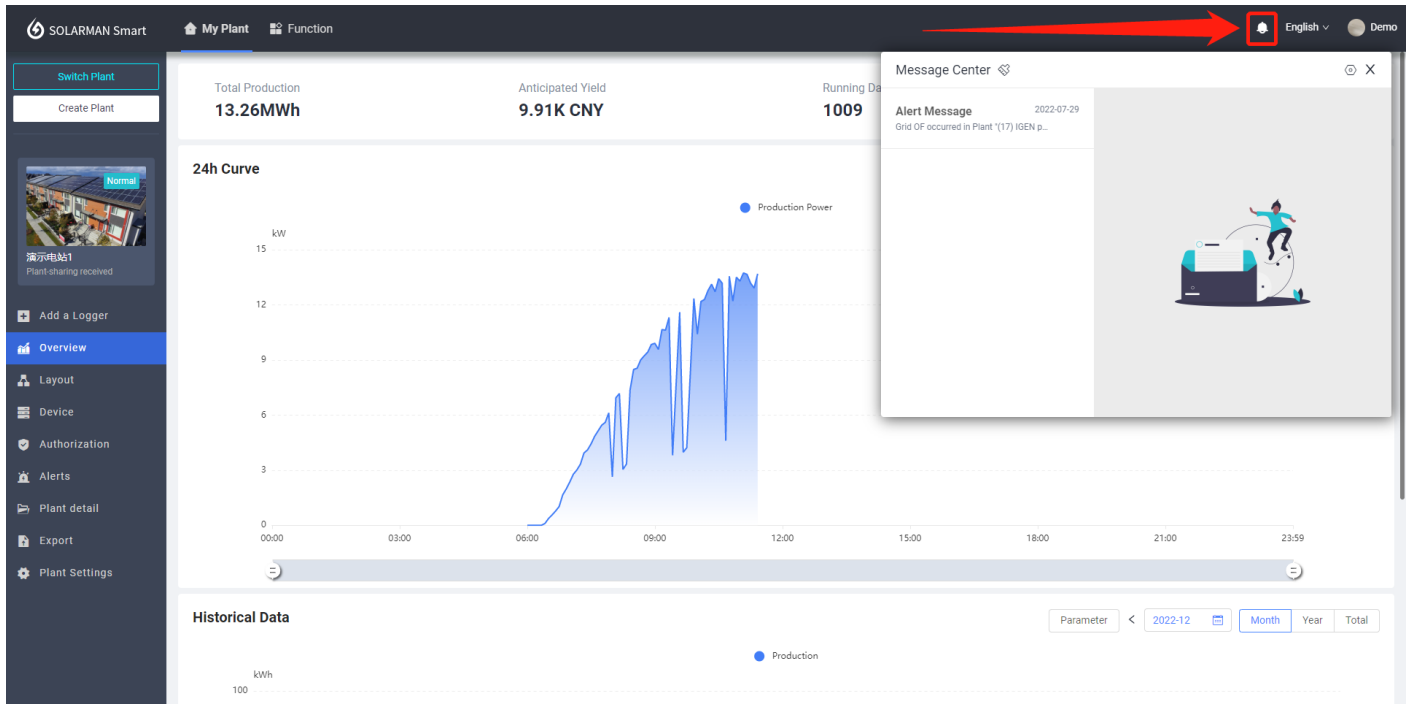
## 2、 Message Center

The icon of the message center is located at the top right of the overall page. The system will send a series of power station messages, alarm messages and system notifications to the message center. You can get the current message content by clicking the icon.

**Note: At present, you will only receive alerts messages from the power station**



## 1.4 Basic functions

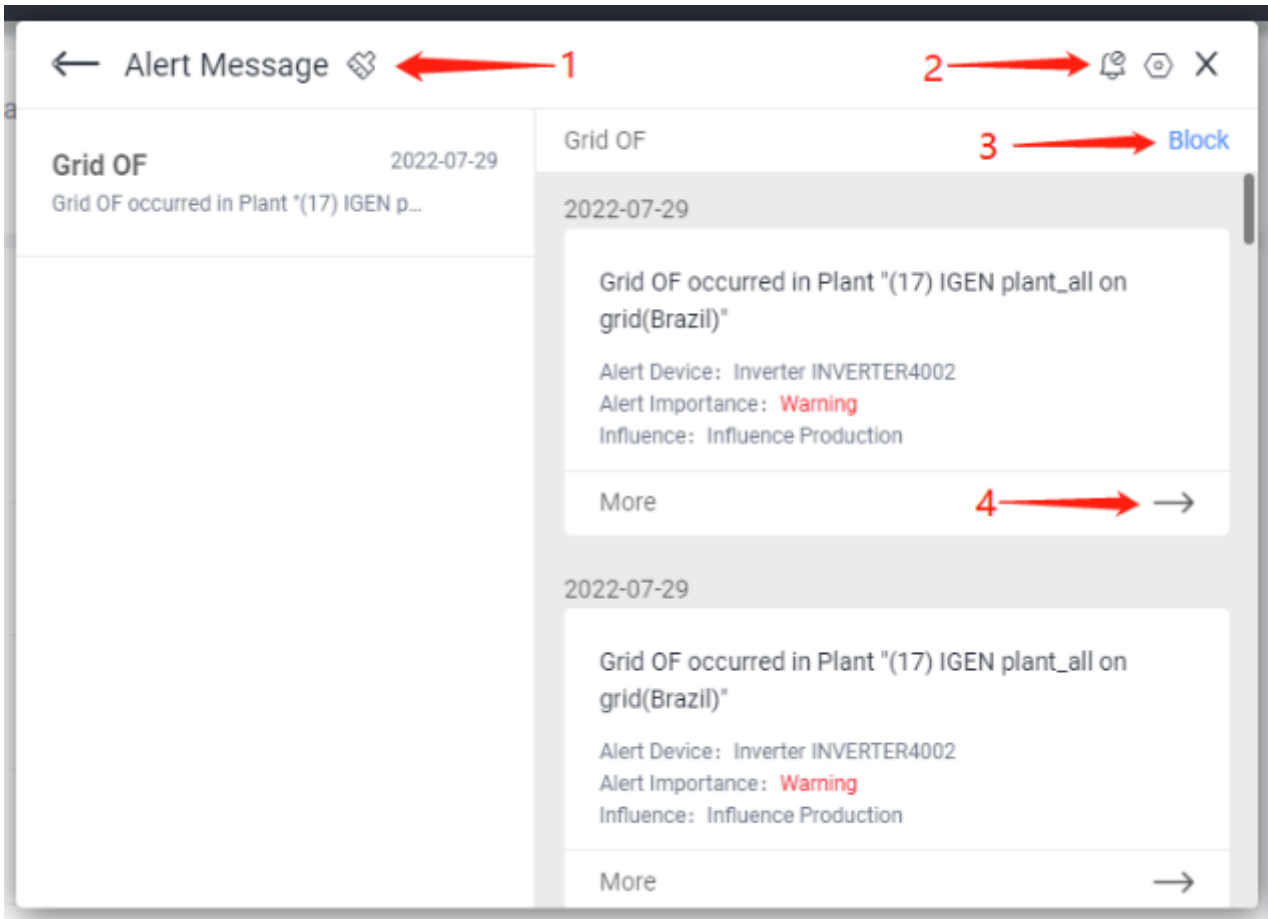


As shown in the figure below, after opening the alerts message in the message center, you can see the following interface:

1. Click icon 1 to clear all unread messages and hide unread marks
2. Click icon 2 to enter the alarm shielding list, and you can recover the shielded alarm
3. Click icon 3, the alarm currently viewed will be masked or restored, and the masked alarm will not be pushed to you when it occurs again

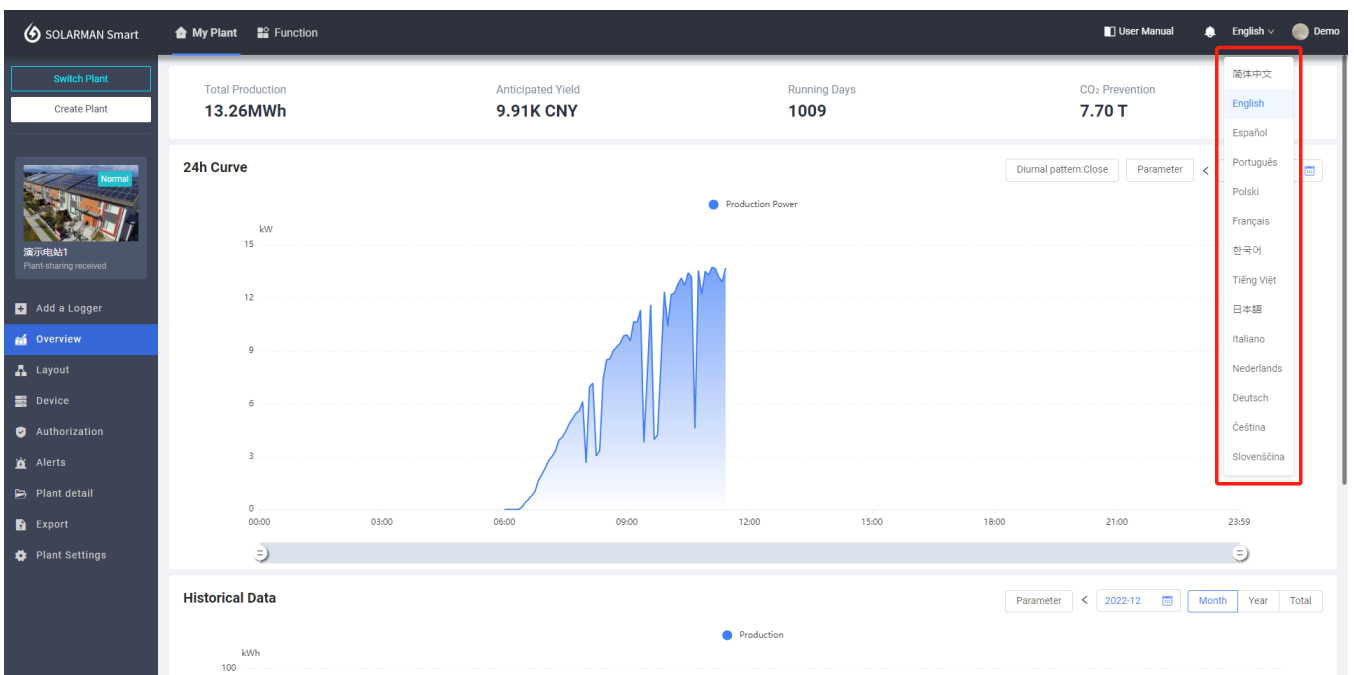
## 1.4 Basic functions

4. Click icon 4 to enter the alarm details interface



### 3、 Software language

To meet the needs of international users, SOLARMAN Smart supports a total of 13 languages, including simplified Chinese, English, Spanish, Portuguese, Polish, French, Korean, Vietnamese, Dutch, German, Swedish, Japanese and Czech. You can click the function in the upper right corner to select a language switch to meet the needs of users in different regions.



## 1.4 Basic functions

### 4、 Log out

When the mouse hovers over the account name in the upper right corner, the logout button will be displayed.

Click to exit the currently logged in account.

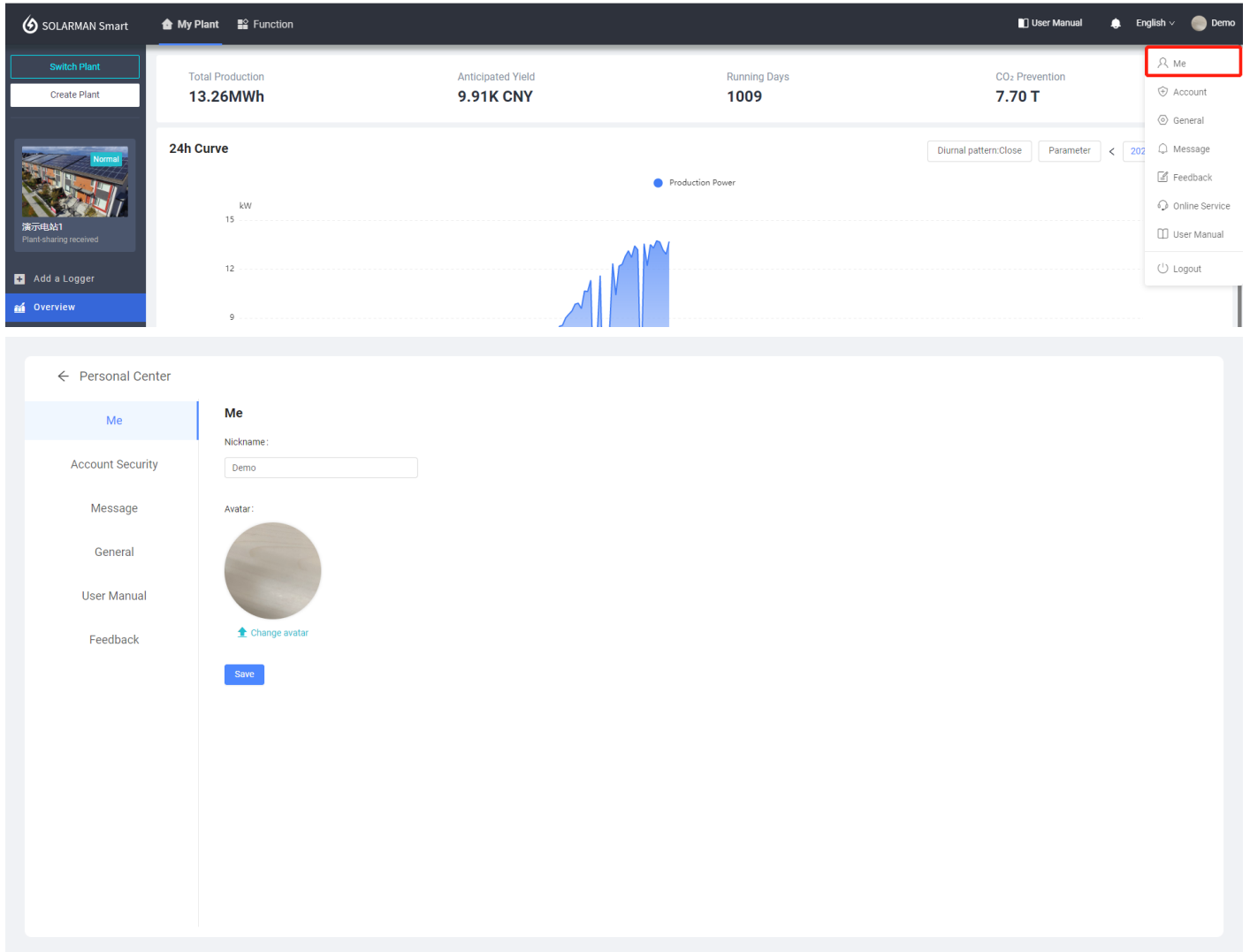


## 1.4.2 Personal Center

### 1、 Me

When the mouse hovers over the account name in the upper right corner, the Me button can be displayed. Click Enter to view the account information settings.

You can edit nicknames and avatars in this interface.

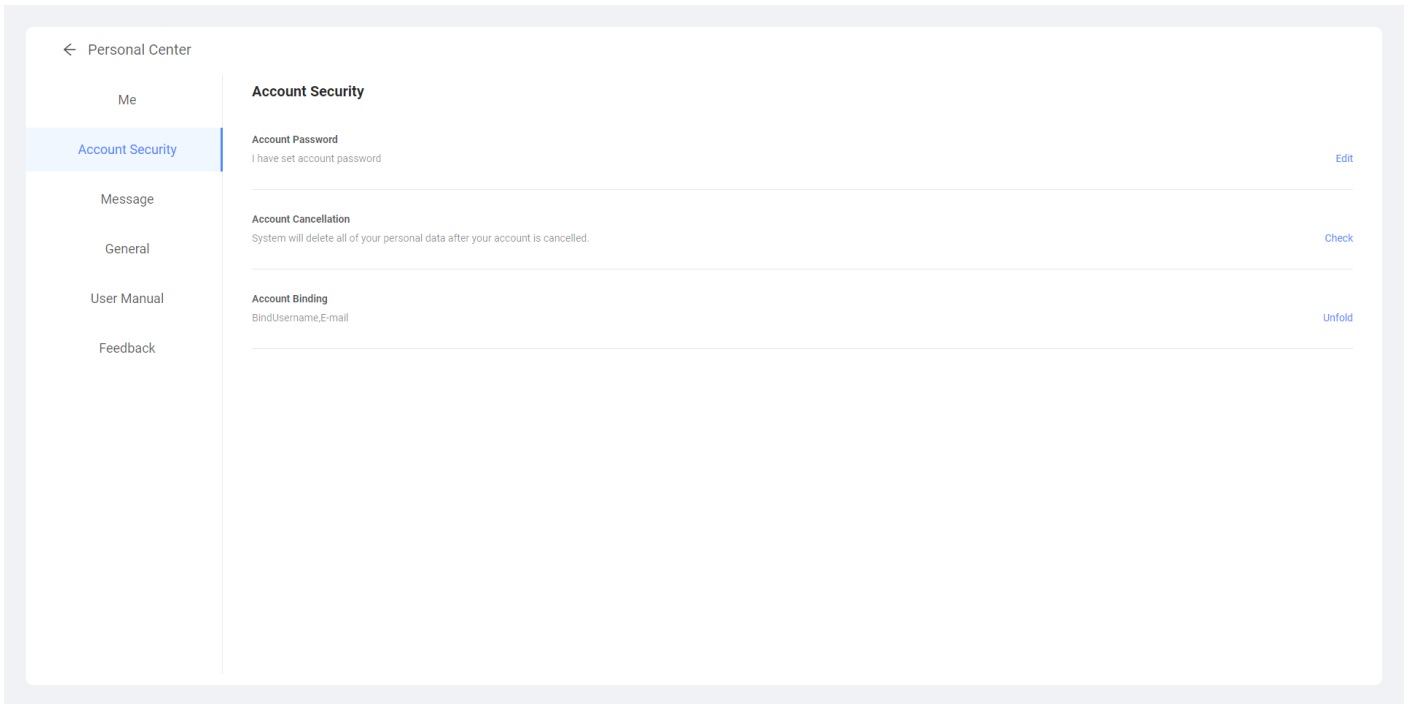


### 2、 Account Security

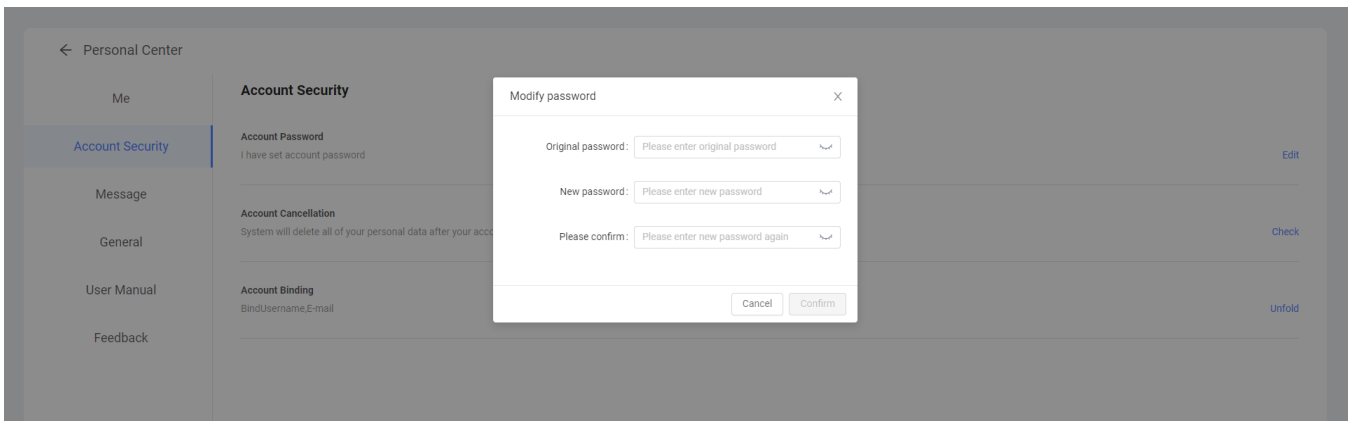
Select and click the **【Account Security】** interface to support such functional operations as account password modification, account cancellation and account binding view, so that users can adjust and maintain account

## 1.4 Basic functions

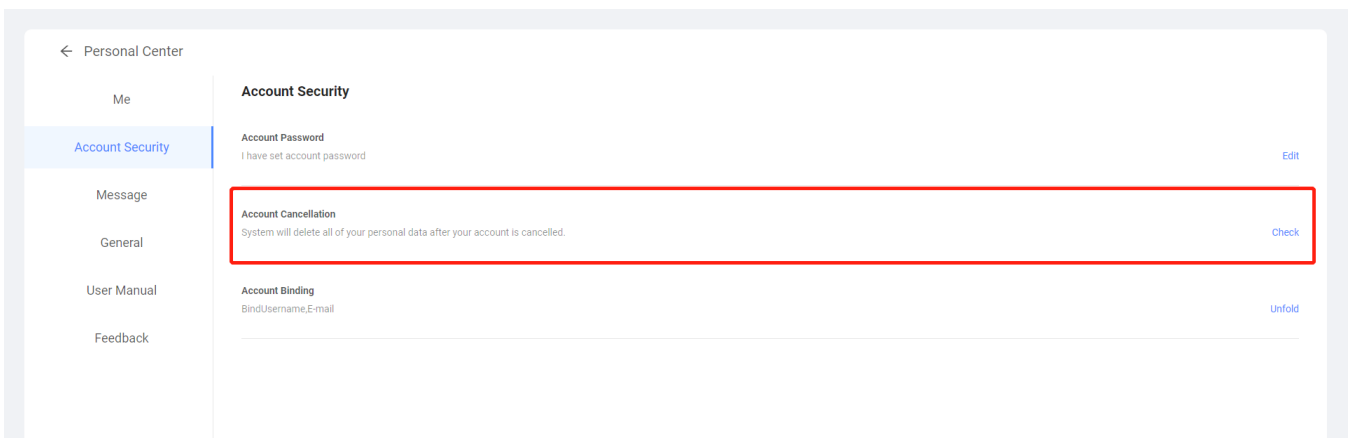
information.



- **Account Password** : If you need to modify the login password of your account, you can click the **【Edit】** button in the figure below to operate.



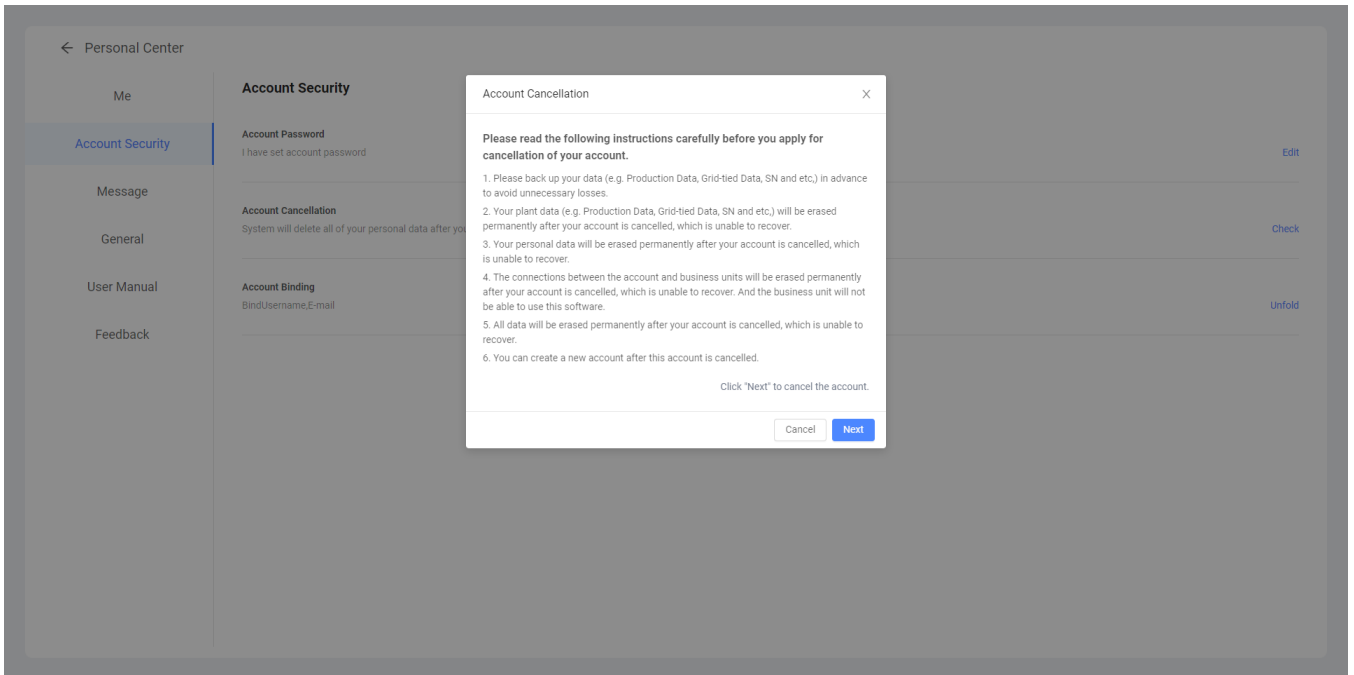
- **Account Cancellation** : If you need to cancel your account, you can click the **【Check】** button in the figure below to operate. Please complete the account cancellation process according to the prompts..



### Step 1: Read the logout instructions

## 1.4 Basic functions

Please read the contents on the page carefully, confirm that you meet the conditions and agree to the Notice on Logout. If you confirm that the above Notice on Logout is correct, please click the **【Next】** button.

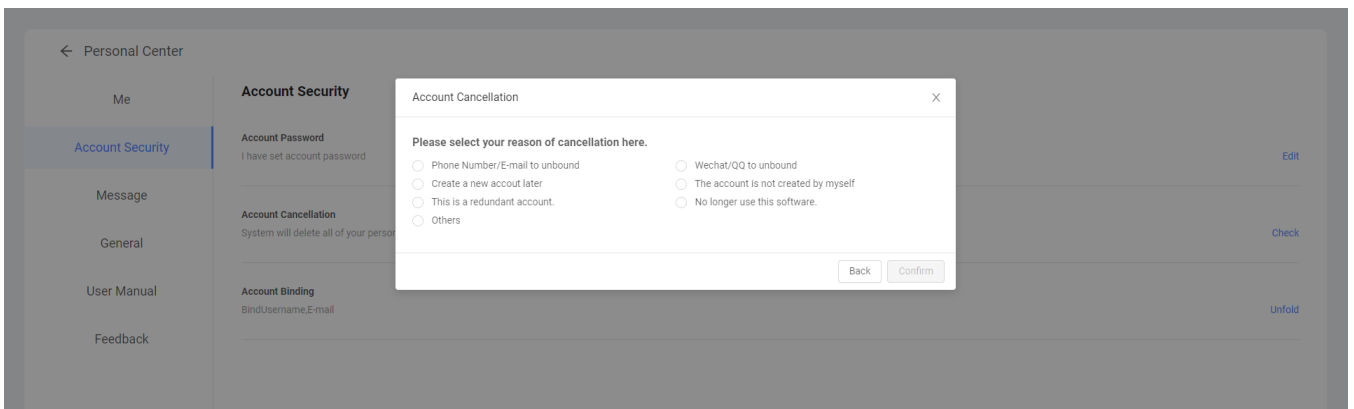


### Step 2: Select the reason for logout

Please select the content matching you from the logout reasons given on the page according to your own situation and consideration.

If the reasons given do not match, you can manually enter the content after selecting **【Others】**

**Note: If your account belongs to any company or enterprise in the merchant version, you cannot cancel it temporarily!**



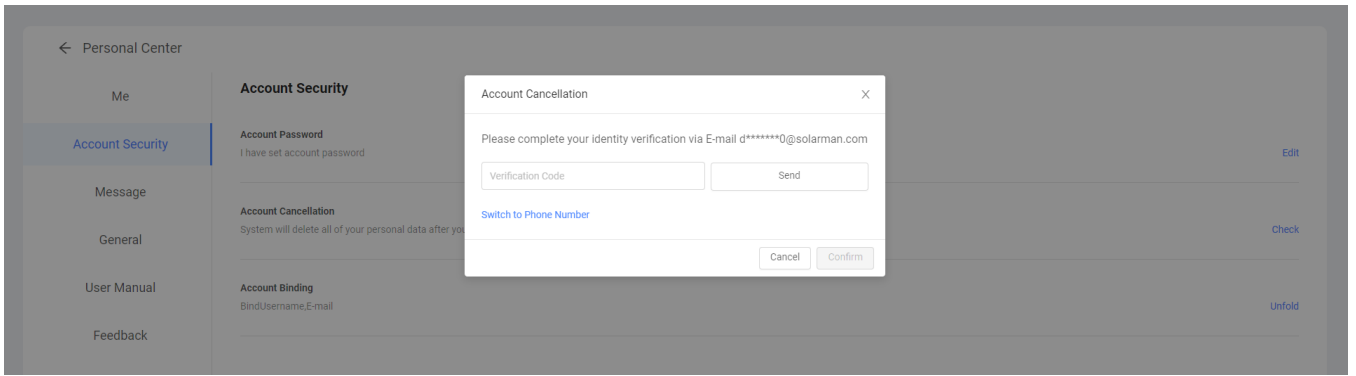
### Step 3: Verify mobile phone number/email

If your account has been bound to a mobile phone number or email address, you need to verify the verification code.

You can select any method to verify on the page. After successfully entering the verification code, please click the **【Confirm】** button.

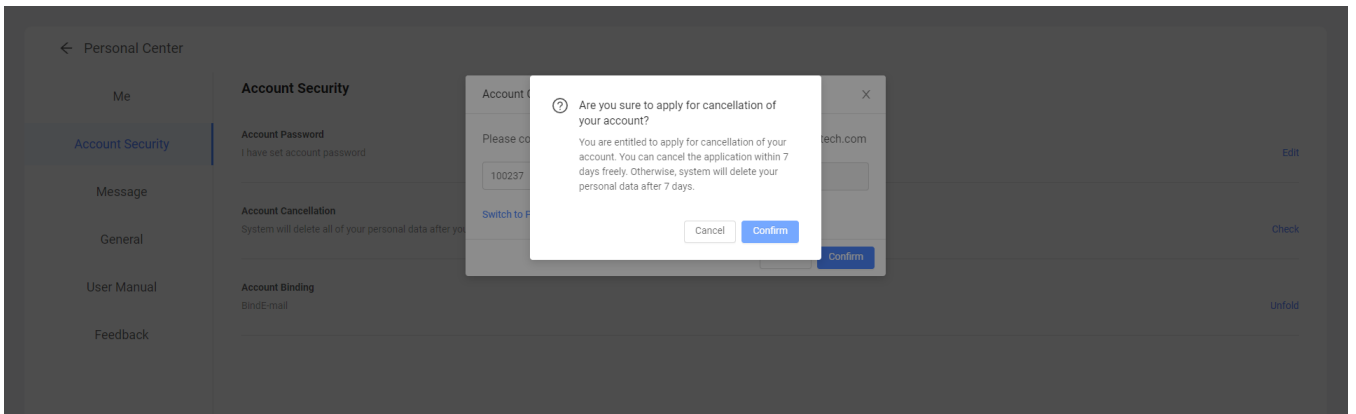
**Note: If your account is not bound to a mobile number or email address, skip this step.**

## 1.4 Basic functions

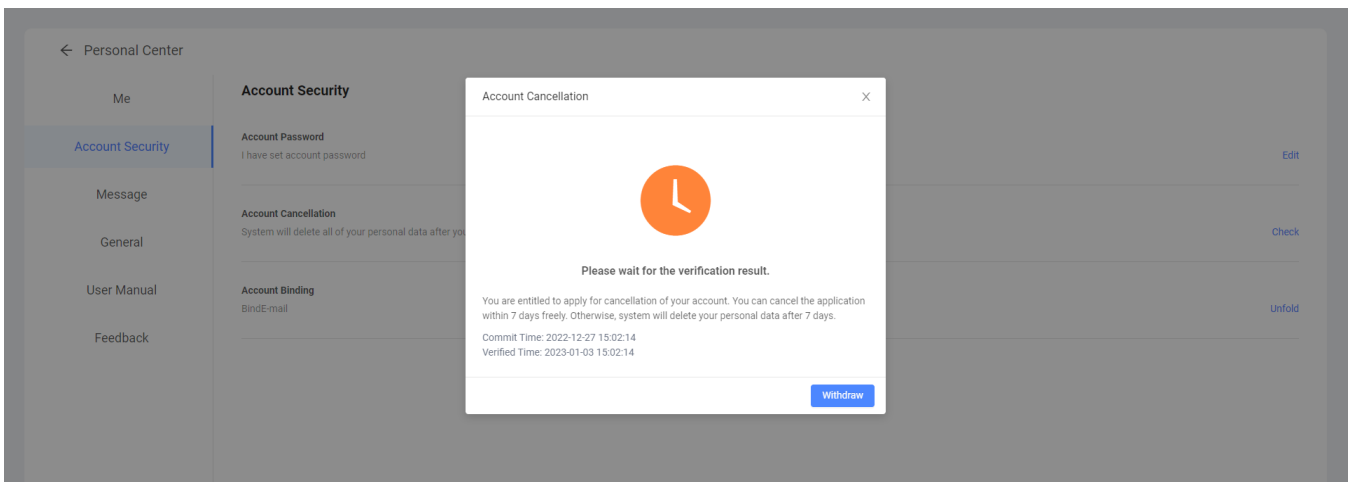


### Step 4: Final confirmation

Please carefully read the contents in the final confirmation pop-up window and carry out the final confirmation operation.

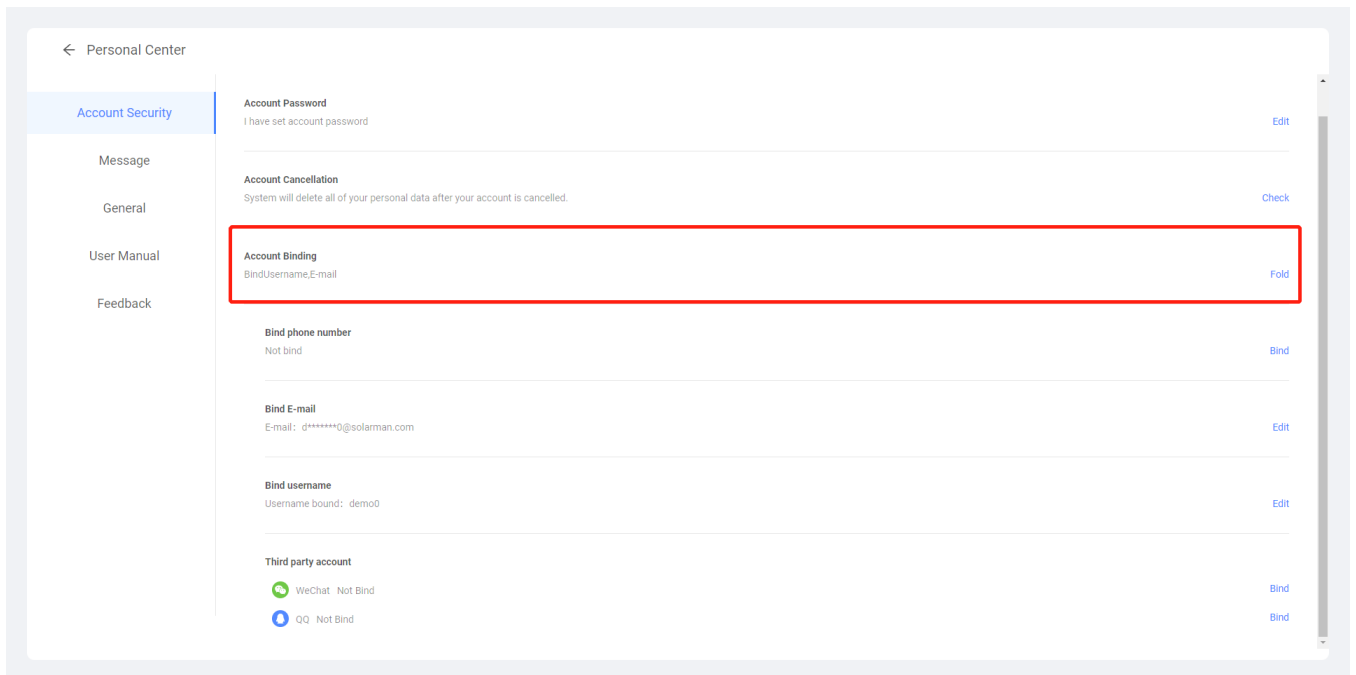


After submitting the cancellation application, the system review period is 7 days. During this period, you can go to this page again to withdraw your application within 7 days. If you do not withdraw your cancellation application within 7 days and there are no other exceptions to your account, the system will erase all data from the system by canceling your application and your account.



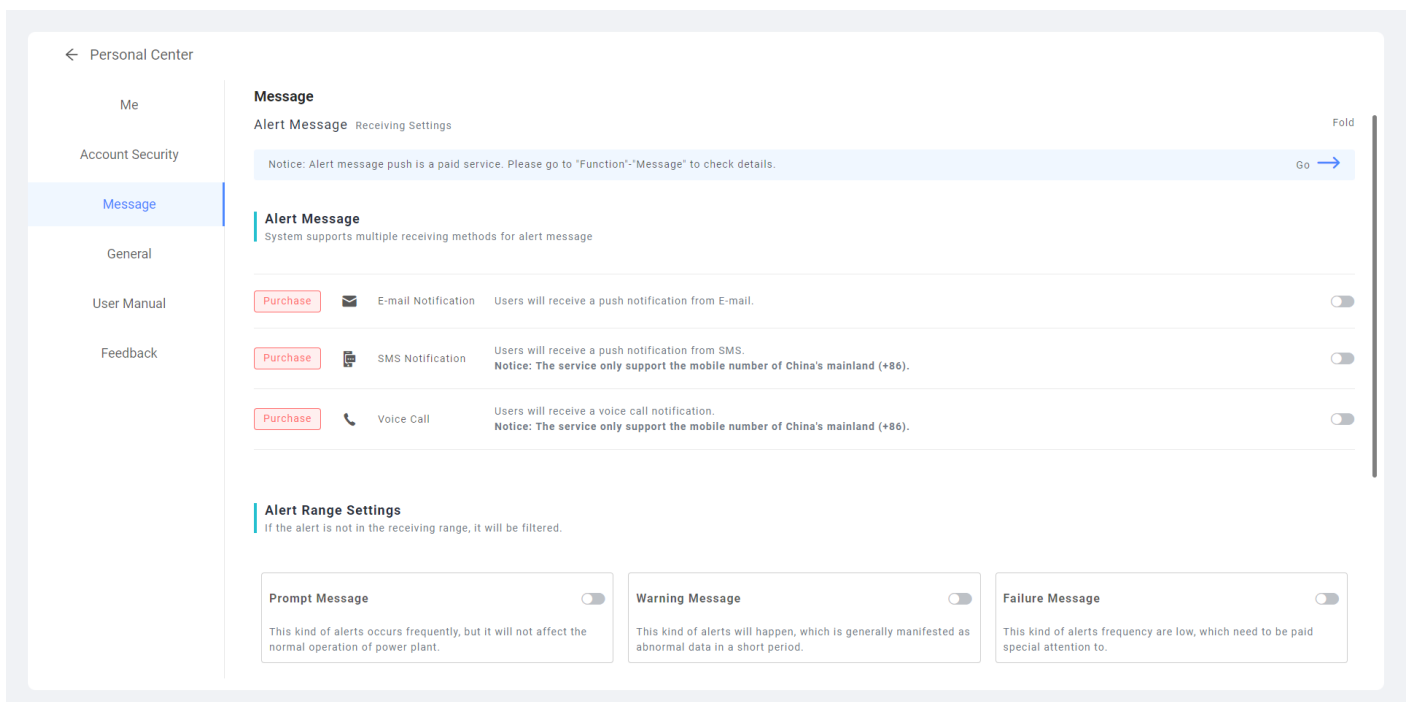
- **Account Binding** : If you want to view the binding information of the current account, you can click the **【Unfold】** button, and the page will display the binding information of the account.

## 1.4 Basic functions



## 3、 Message

Through the Message interface, you can set the alarm messages of the current account.






- **Alert Message** : At present, SOLARMAN Smart Web can receive all alerts in the message box for free. The system also supports three other charging methods



## 1.4 Basic functions

**Alert Message**  
System supports multiple receiving methods for alert message

<a href="#">Purchase</a>	 E-mail Notification	Users will receive a push notification from E-mail.	<input checked="" type="checkbox"/>
<a href="#">Purchase</a>	 SMS Notification	Users will receive a push notification from SMS. <b>Notice: The service only support the mobile number of China's mainland (+86).</b>	<input checked="" type="checkbox"/>
<a href="#">Purchase</a>	 Voice Call	Users will receive a voice call notification. <b>Notice: The service only support the mobile number of China's mainland (+86).</b>	<input checked="" type="checkbox"/>

- **Alert Range Settings** : SOLARMAN platform will grade all device alarms. You can reasonably select the alarm receiving range according to the actual scenario. When an alarm outside the receiving range occurs, the system will not send you a notification. You can avoid frequently receiving unimportant alarm messages through this device.

**Alert Range Settings**  
If the alert is not in the receiving range, it will be filtered.

<b>Prompt Message</b> <input type="checkbox"/>	<b>Warning Message</b> <input type="checkbox"/>	<b>Failure Message</b> <input type="checkbox"/>
This kind of alerts occurs frequently, but it will not affect the normal operation of power plant.	This kind of alerts will happen, which is generally manifested as abnormal data in a short period.	This kind of alerts frequency are low, which need to be paid special attention to.

- **Alert Frequency Settings** : When the photovoltaic equipment works normally, the working data will periodically send data to the server of the SOLARMAN platform according to a certain frequency. After receiving the data, the SOLARMAN platform will display it to you in different forms on various pages. Here, the "Alert Frequency Settings" will affect the alarm messages you receive through certain rules. The purpose is to support you to appropriately reduce the disturbance caused by equipment false alarm through reasonable alarm frequency setting.

**Alert Frequency Settings**  
Reasonable alert frequency settings can properly reduce the disturbance caused by false alert.

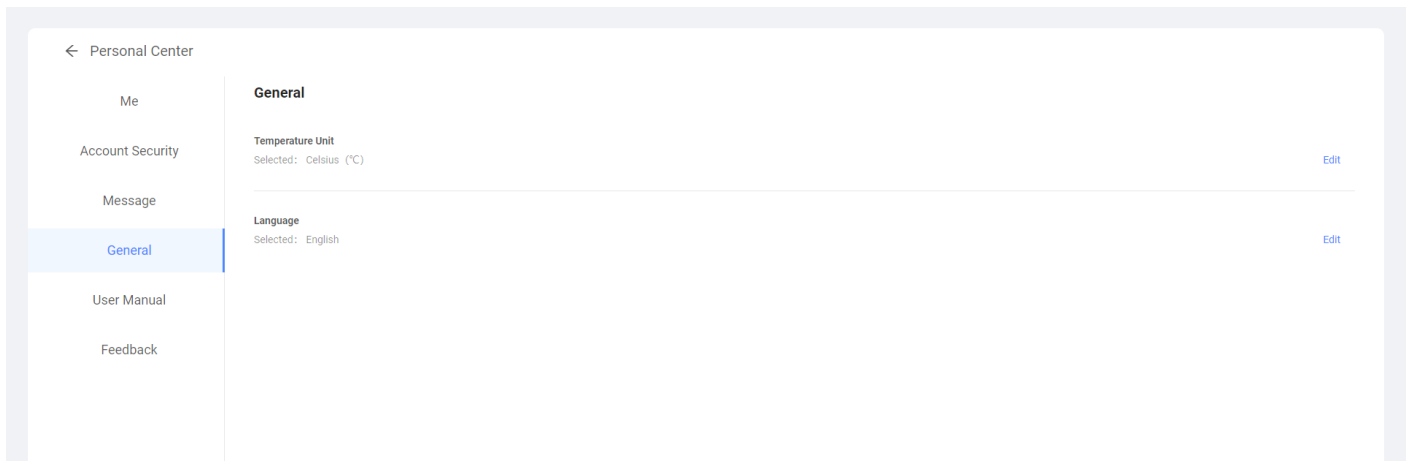
Current Setting: Alerts will be received after 1 trigger times Note: The acquisition period of alert information is about 5-10 minutes.

<a href="#">Trigger Times: 1</a>	<a href="#">Trigger Times: 2</a>	<a href="#">Trigger Times: 3</a>
<a href="#">Trigger Times: 4</a>	<a href="#">Trigger Times: 5</a>	

## 4、General

When you select to click the **【General】** interface, you can set the temperature unit and multi language in this interface.

## 1.4 Basic functions



## 5、 Online Service

When the mouse hovers over the account name in the upper right corner, the online customer service button can be displayed. Click to enter and directly contact SOLARMAN online customer service.

Customer service online time: 09:00-11:30 a.m., 12:30-18:00 p.m. If the customer service is not online, you can leave a message directly, and the customer service will reply to you as soon as it is online.

