

# User Manual-CSI Cloud (App)

## 1. Preface

Dear Users,

Thank you very much for using online PV monitoring system-CSI Cloud. We sincerely hope our design meets your requirements. If you have any comments, please feel free to send us a note and let us know how we are doing.

This manual is to introduce product information and detailed operation procedures, which aims to a quick grasp of the system and a better monitoring of PV data.

## 2. Instruction

### 2.1 Download CSI Cloud App

Scan QR code below to download and install CSI Cloud App. (Both android and IOS systems are supported.)

( 1 ) Android: Scan QR code and open with browser, download APK and install.

( 2 ) IOS: Scan QR code, open with browser, jump to App Store and download.



## 2.2 Language

( 1 ) System supports Chinese(Simplified), English, Português and español.

( 2 ) When you enter CSI Cloud App for the first time, system will match the suitable language for you based on your mobile phone system. Go to *"Me"->"Settings"->"General"->"Language"* for language selection.

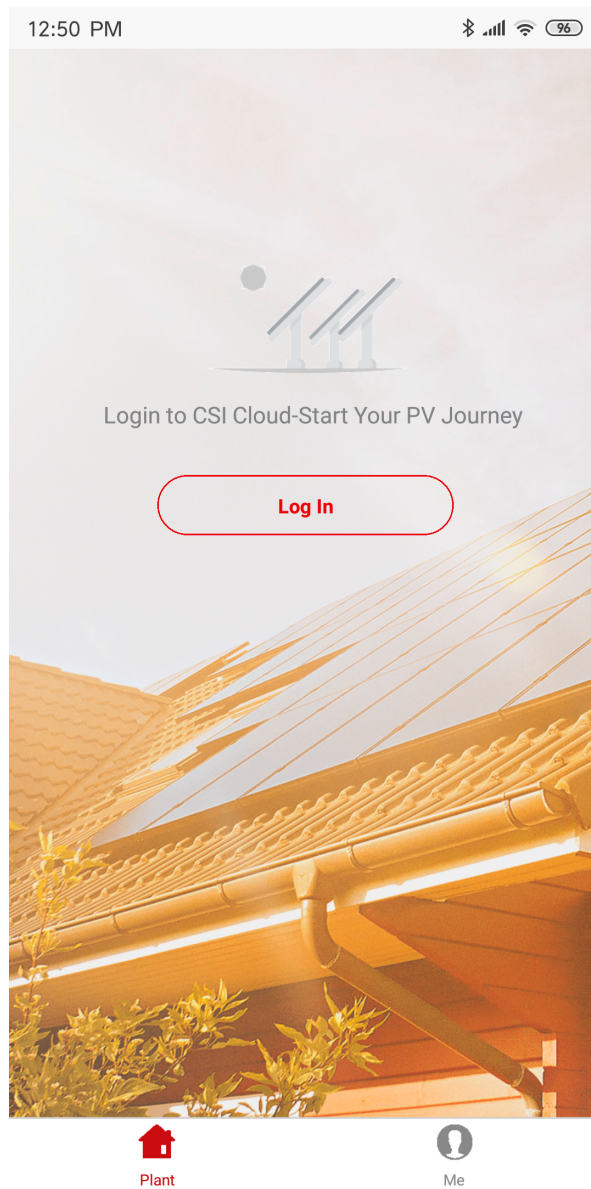
## 2.3 Login&Register

### 2.3.1 Register

After entering CSI Cloud, please register at CSI Cloud Platform to ensure the normal function.

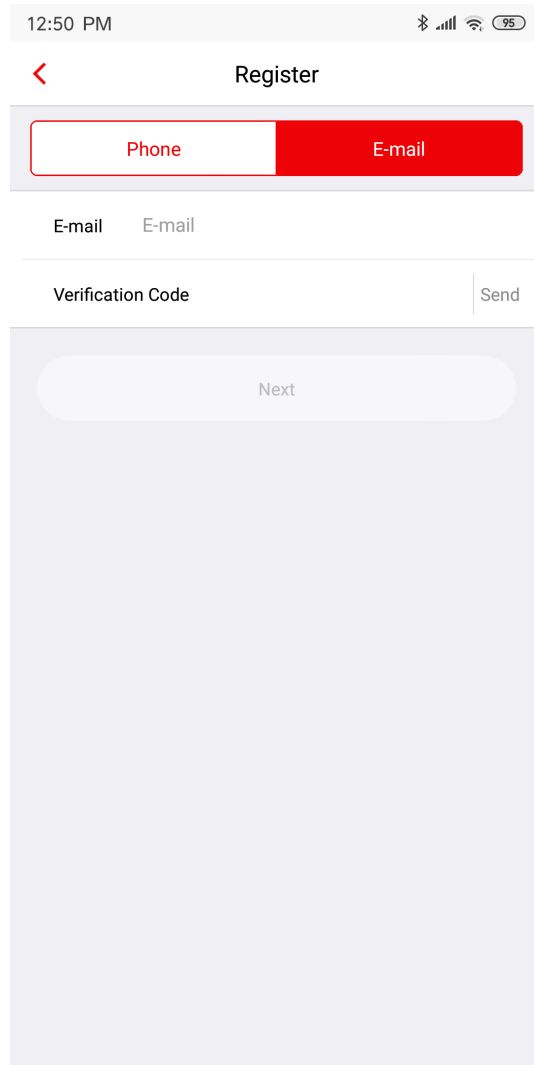
Click "Log In" and go to "Register".

Notice: If you are an old user at CSI Cloud Platform, you can login directly. See 2.3.2 (Login) for detailed information.



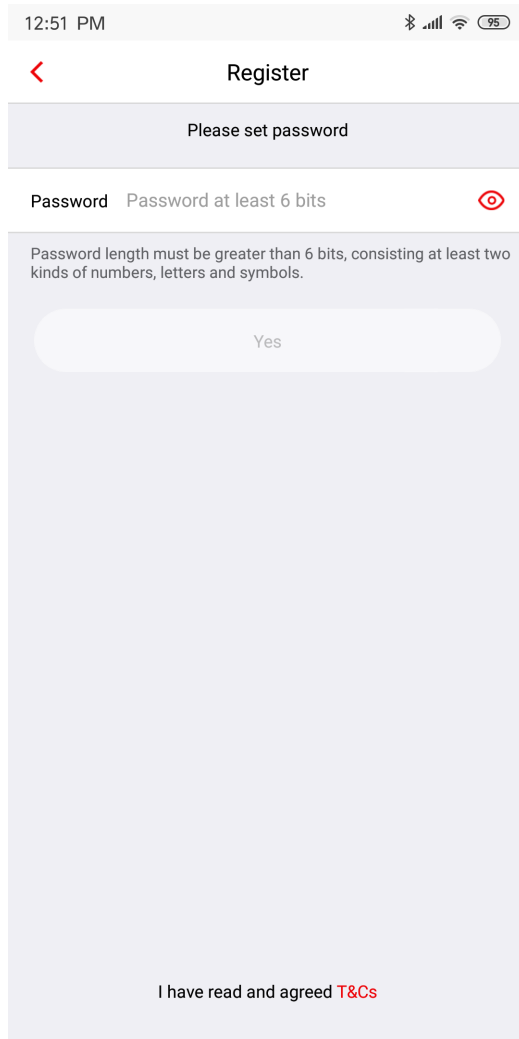
System supports E-mail or phone registration. Please follow:

( 1 ) Create your account via E-mail or phone.



( 2 ) For security reasons, please set your password.

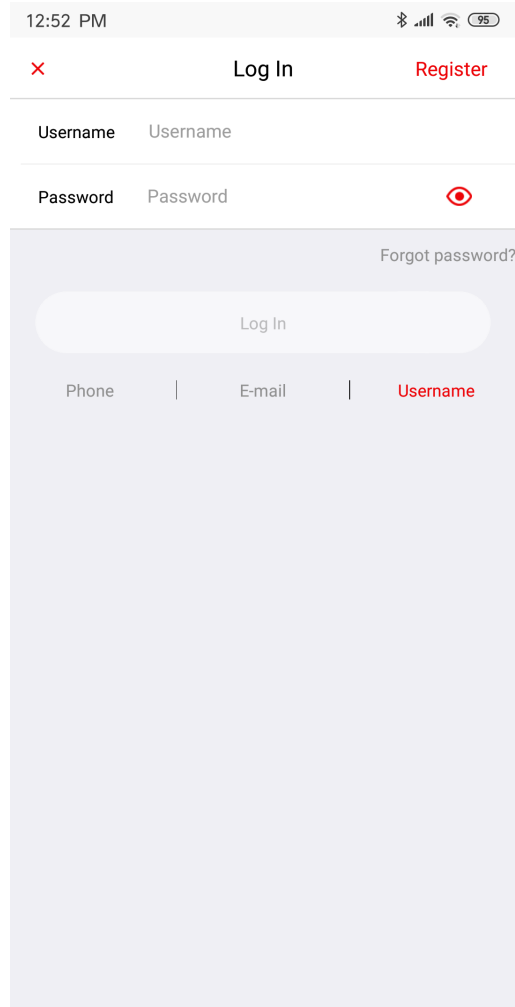
Notice: Password length must be greater than 6 bits, consisting at least two kinds of numbers, letters and symbols.



## 2.3.2 Login

If you have an account at CSI Cloud Platform, you can login directly.

Log in to CSI Cloud Platform via your account. Default password: 123456.



### 2.3.3 Forgot Password?

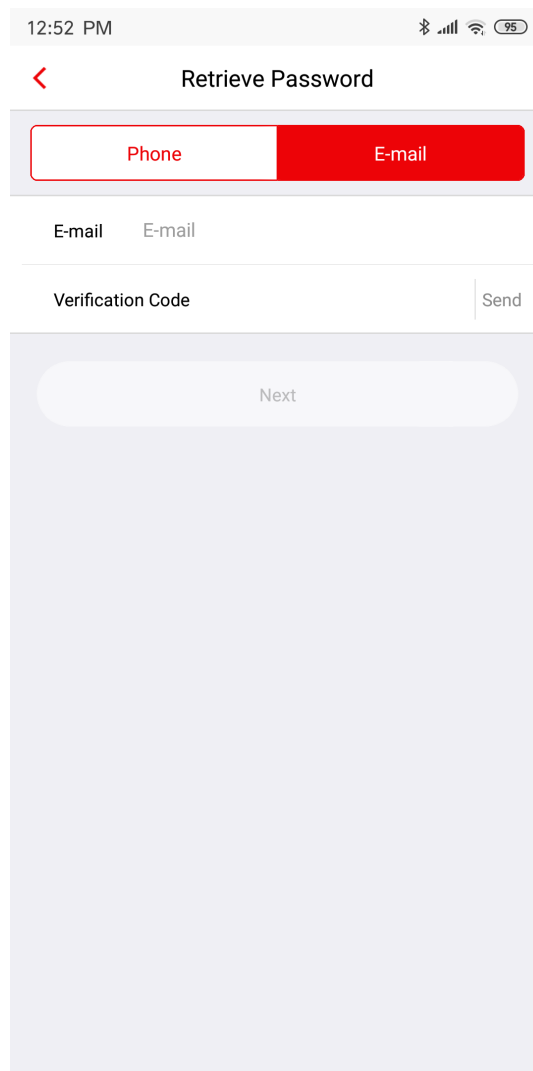
If you forget your password, please click "*Forgot Password?*" to find your password back.

( 1 ) If you try to find your password via your phone, please enter your phone number first, then click "*Send*". System will send a verification code message to your phone. Please enter the right verification code, then reset your password.

( 2 ) If you try to find your password via E-mail, please enter your E-mail address first, then click "*Send*". System will send a verification code E-mail to your mailbox. Please enter the right verification code, then reset your password.

Notice: If you encounter the following problems, please contact Customer Service.

- (1) You have not received a verification code.
- (2) Your phone or E-mail has been deactivated.
- (3) You enter your username to log in to CSI Cloud Platform. And your account have not bound your phone or E-mail.



## 2.4 Create a Plant

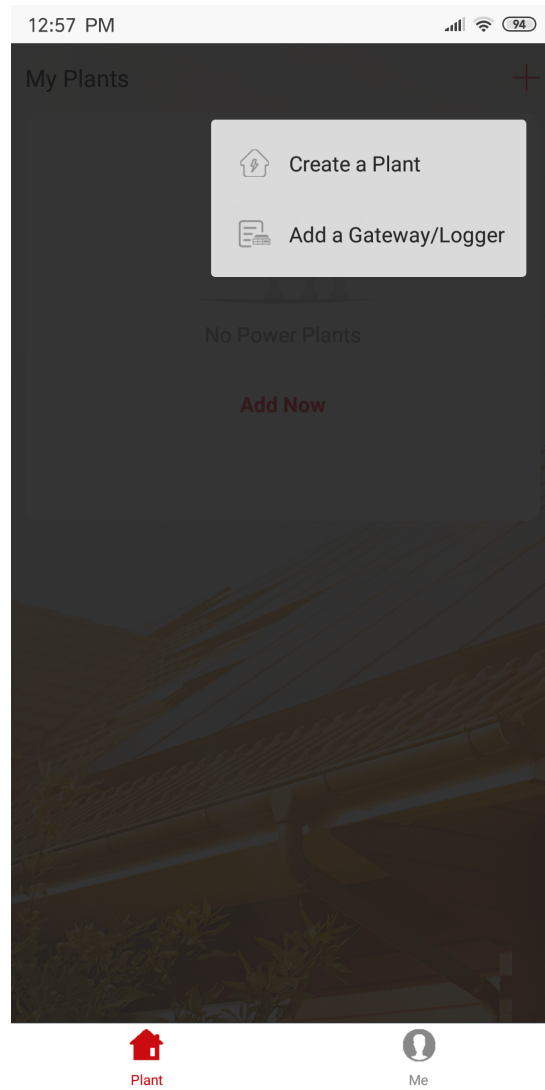
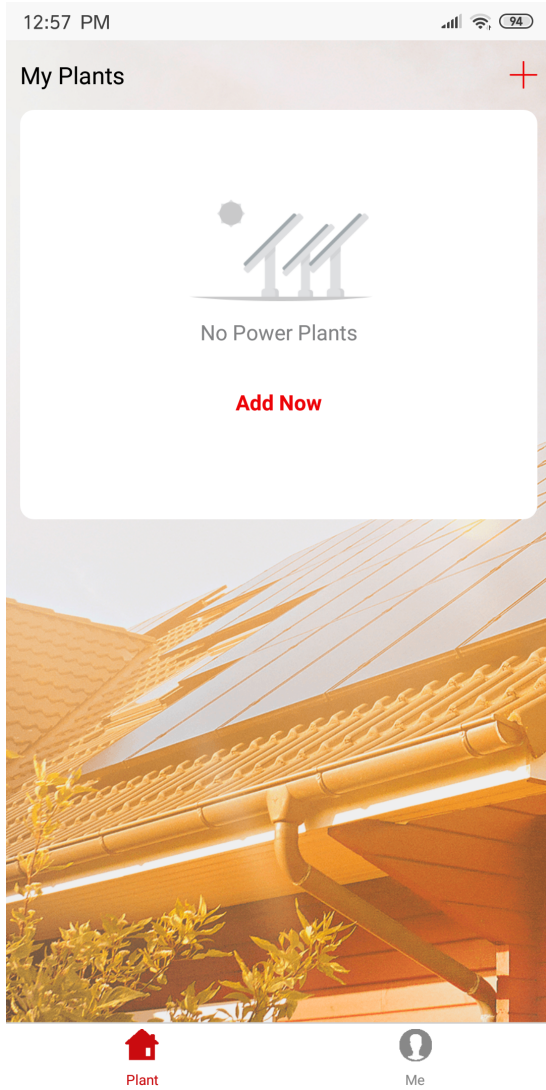
Owners can create your own plant at CSI Cloud Platform to run a real-time monitoring. System will collect the data from associated devices, which enables a full understanding of PV plant running status.

### 2.4.1 Step 1: Add Now

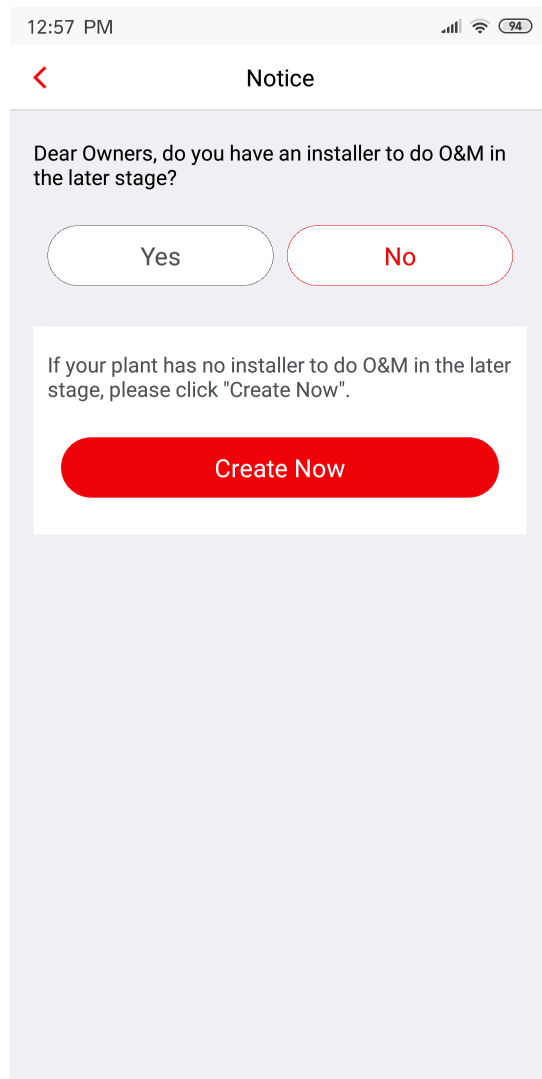
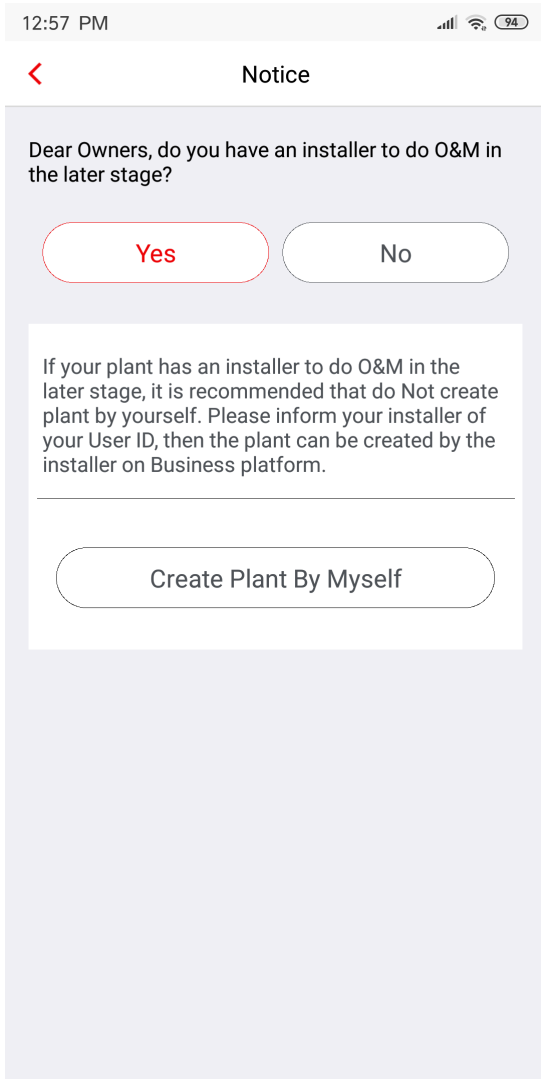
Click "*Add Now*" to create your plant at CSI Cloud Platform.

Notice: If you have already created a plant, you will not see this page. And if you wish to create another plant, please click "+" in the upper-right corner and select "*Create a Plant*".





When you enter the following page, please select according to your own situation. If your plant has an installer to do O&M in the later stage, it is recommended that do Not create plant by yourself.



## 2.4.2 Step 2: Enter Plant Details

Please enter detailed plant information according to your actual situation. System will create an unique plant for you. In order to calculate plant data precisely, please enter

- (1) *Plant Name,*
- (2) *Plant Type,*
- (3) *Grid Type,*
- (4) *Plant Location,*
- (5) *Installed Capacity,*

(6) *Time Zone,*

(7) *Other information.*

12:58 PM

< Confirm Plant Location

Plant location is required.

Enter Address to Search Plant

Latitude: -16.734958 Longitude: -49.258820

Plant Address Brazil, Goiás >

BrazilGoiásGoiâniaVila BrasíliaAvenida Ruda54 - Vila Brasília, Goiânia - GO, 74905-180, Brazil

Next

12:58 PM

< Plant Details

Please enter detailed plant data

Basic Info

Plant Name Name your plant

Time Zone (UTC-03:00) Brasília >

System Info

Plant Type Please select >

Grid Type Please select >

Installed Capacity(kWp) Please select

Commissioning Date ⓘ 2019-04-25 >

Revenue Info

Currency BRL >

Feed-in Tariff((BRL/kWh)) ⓘ Please enter (Optional)

Total Cost(BRL) Please enter (Optional)

Finish

Notice: If your plant has no data after you click "*Finish*", which means there is no device in your plant.

## 2.5 Add a Gateway/Logger

After the plant is created, you can add a gateway/logger. Gateway/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, system will determine whether the plant is running normally, which avoid property losses caused by device failure and other reasons.

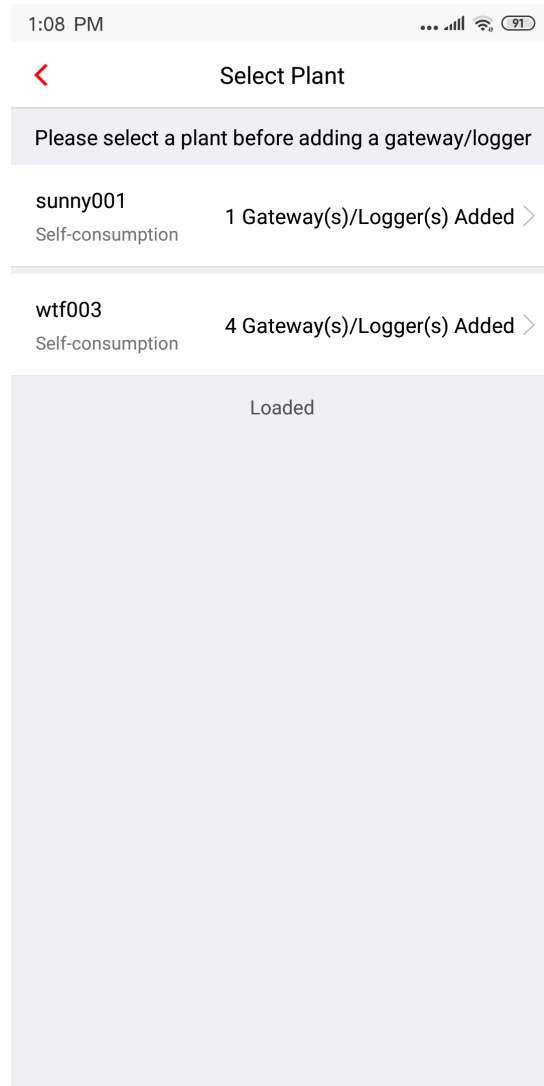
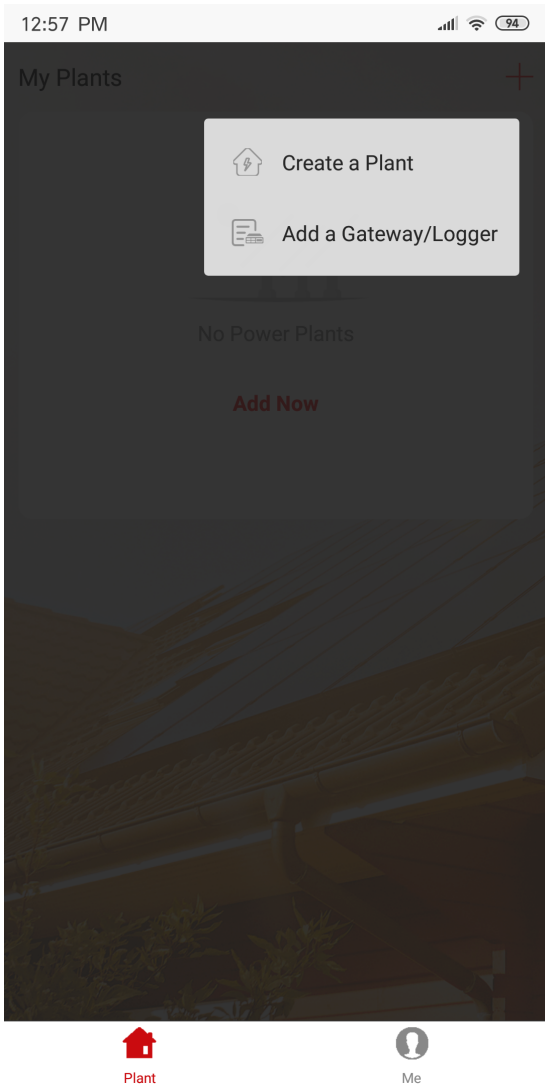
## **2.5.1 Step 1: Select a Plant**

In case you have various power plants, which might cause data corruption, it is recommended to select a plant first before adding a gateway/logger.

Ways to add a gateway/logger:

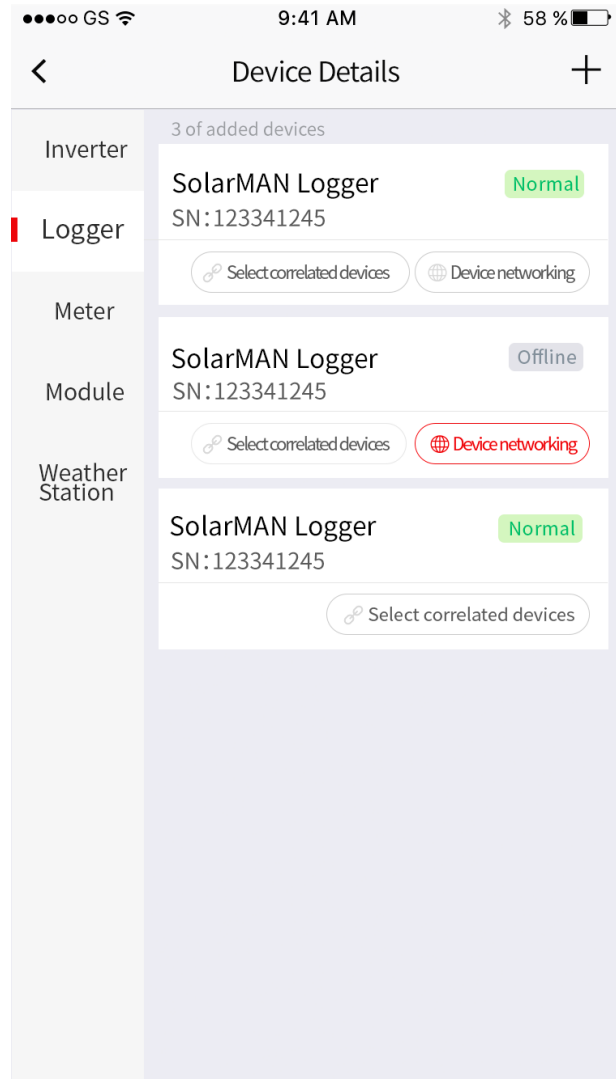
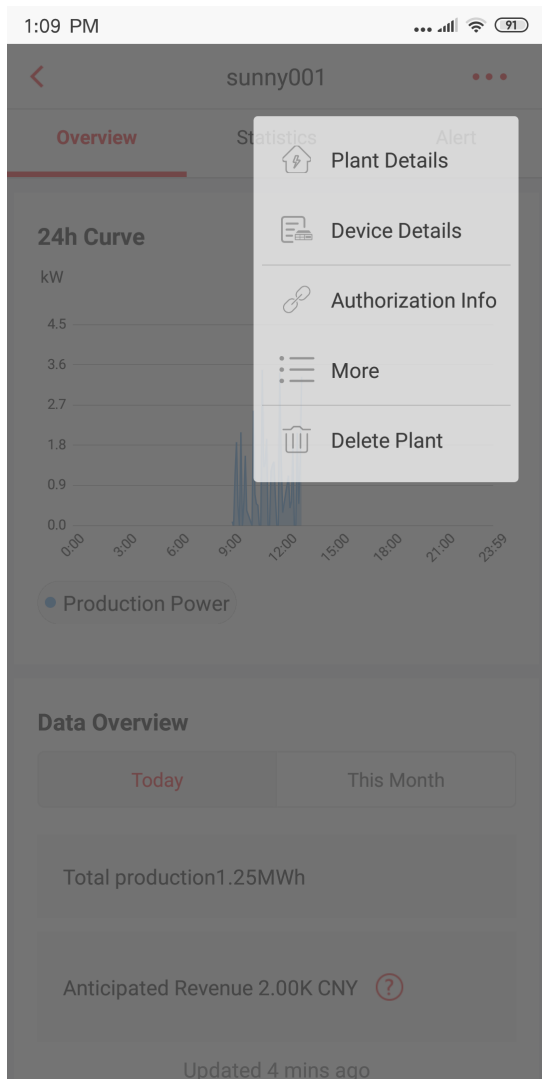
( 1 ) Add a gateway/logger at Plant Homepage.

Click "+" in the upper-right corner, and select *"Add a Gateway/Logger"*, then select plant according to your actual situation.



( 2 ) Add a gateway/logger at Device Details.

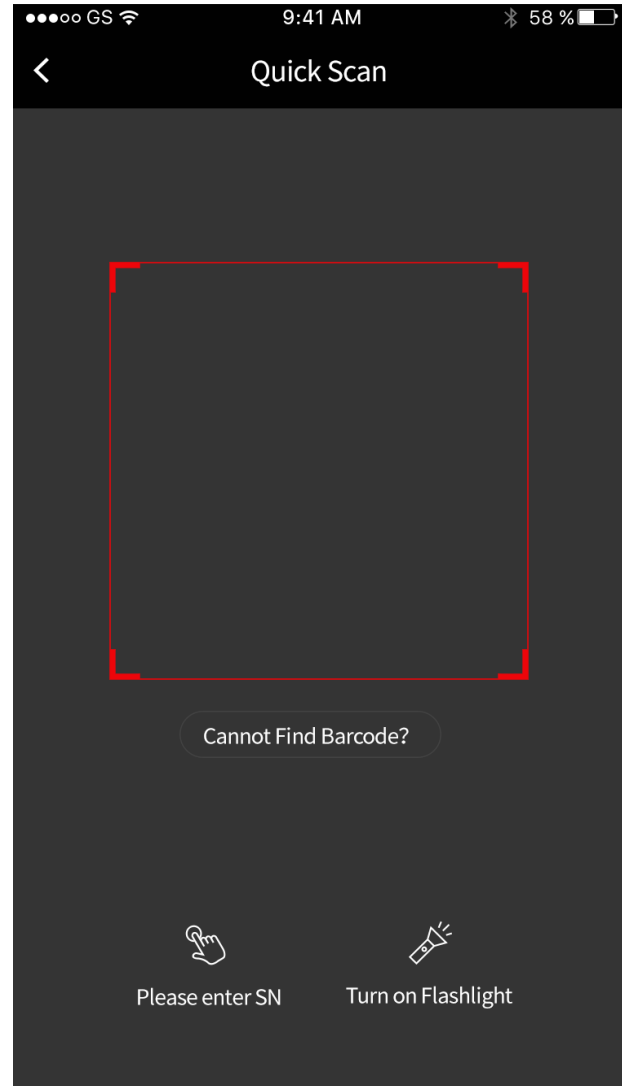
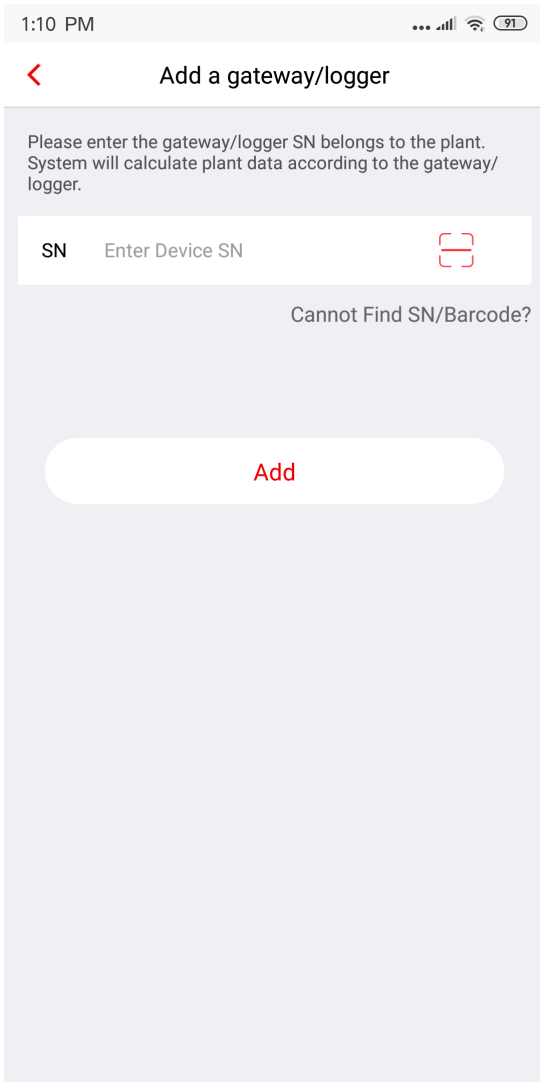
Select a plant you wish to add a gateway/logger to. Click "... " in the upper-right corner, and select "*Device Details*". Then click "+" in the upper-right corner to add a gateway/logger to the target plant.



## 2.5.2 Step 2: Enter Gateway/Logger SN

You can enter gateway/logger SN manually or click icon in the right to scan SN.

You can find SN on the product box. If the product box has been lost, you can find SN on product body.



### 2.5.3 Step 3: Select Authorization Mode

When you add a gateway/logger, it is required to select authorization mode. System will add devices to your plant according to your authorization mode.

( 1 ) Select authorized device automatically

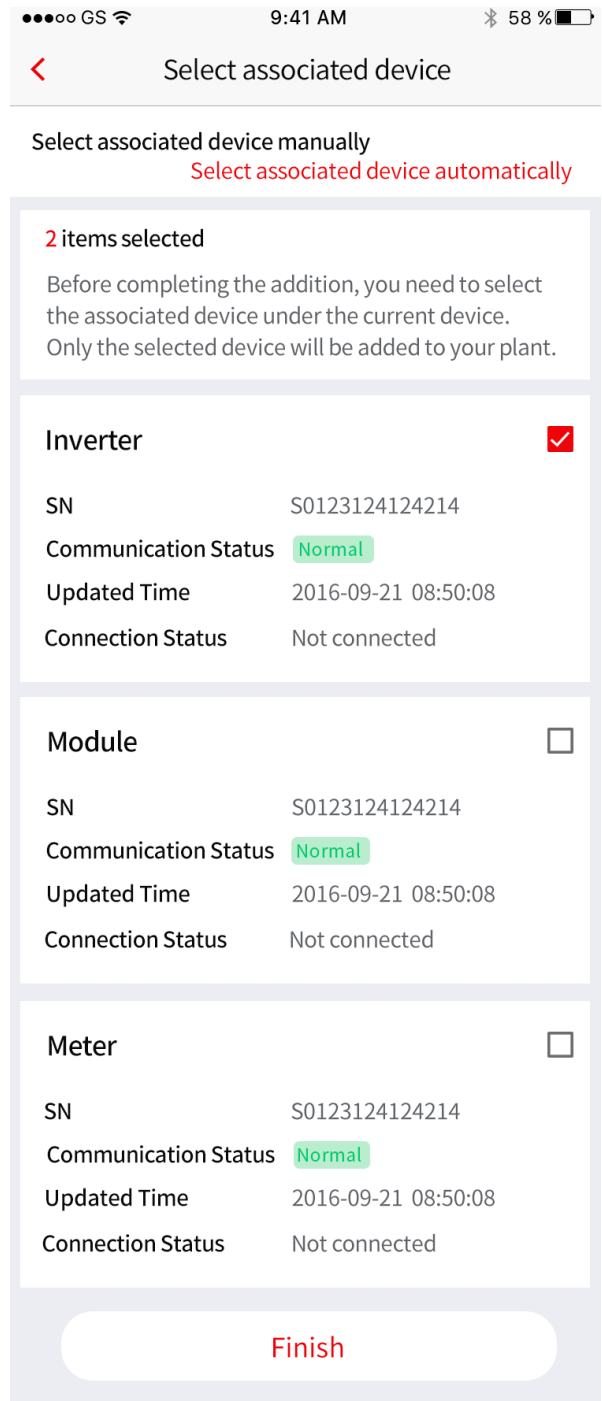
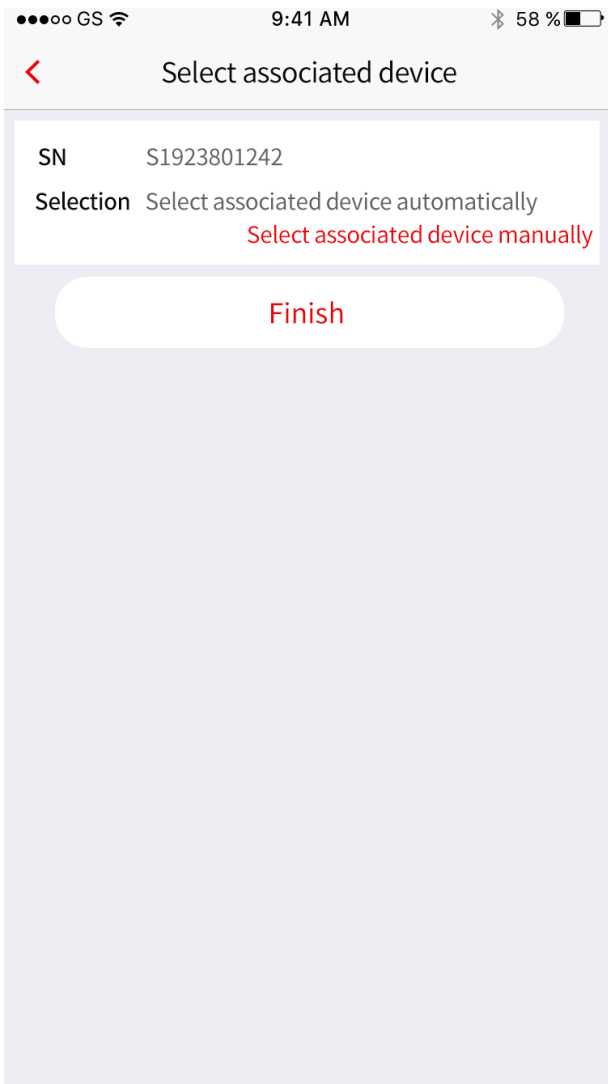
Default authorization mode: Select authorized device automatically. If you select this mode, devices connected to gateway/logger will be added to the plant automatically.

( 2 ) Select authorized device manually

If you select authorized device manually, it is required to select the devices connected to gateway/logger first, then add the target devices to the plant. If the gateway/logger does not have normal networking or devices have no connection with the gateway/logger at this period, you can go to *"Device Details"* and add device manually when it runs normally.

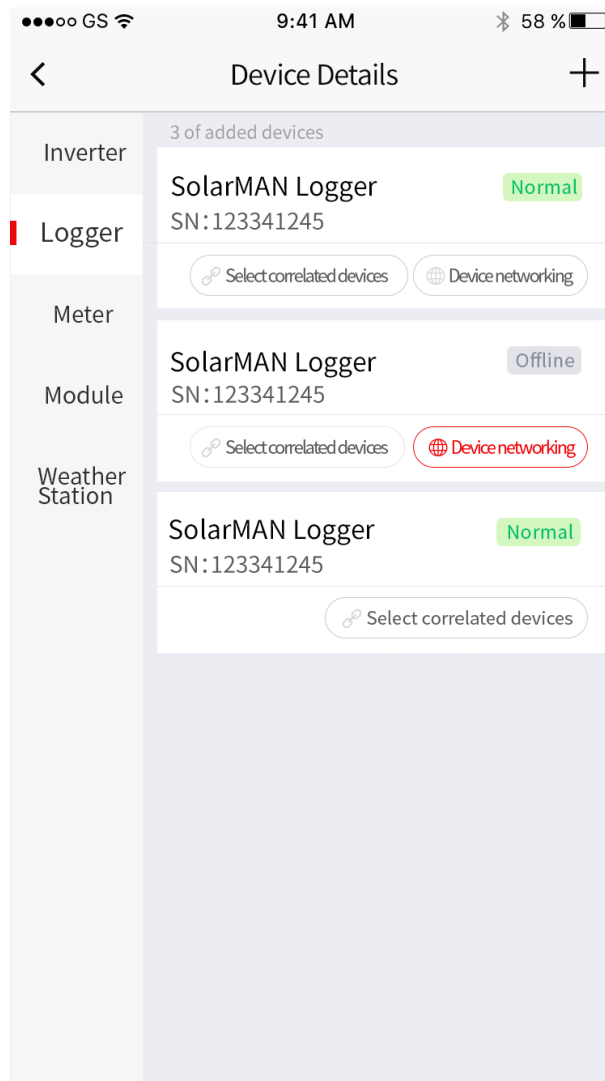
Notice: Once authorization mode is selected, it cannot be changed.





## 2.5.4 Step 4: Finish

After finish adding, you can check gateway/logger data on "Device Details" page.



If your gateway/logger is a WiFi module, please know the following information:

( 1 ) Wi-Fi module is not capable of communication, which cannot transmit data directly.

( 2 ) If you wish your gateway/logger is capable of communication, it is required to operate networking configuration first. System will keep you informed after adding a device, then click *"Go to Configure"*.

( 3 ) After networking configuration is done, it means gateway/logger is capable of communication, which can transmit data to server. Then you can check plant data at CSI Cloud

App.

( 4 ) Due to network and server connection, please wait about 5-10 mins after the configuration is done.

## 2.6 Networking Configuration

If your gateway/logger is a WiFi module, it is required to operate networking configuration first to ensure normal data transmission.

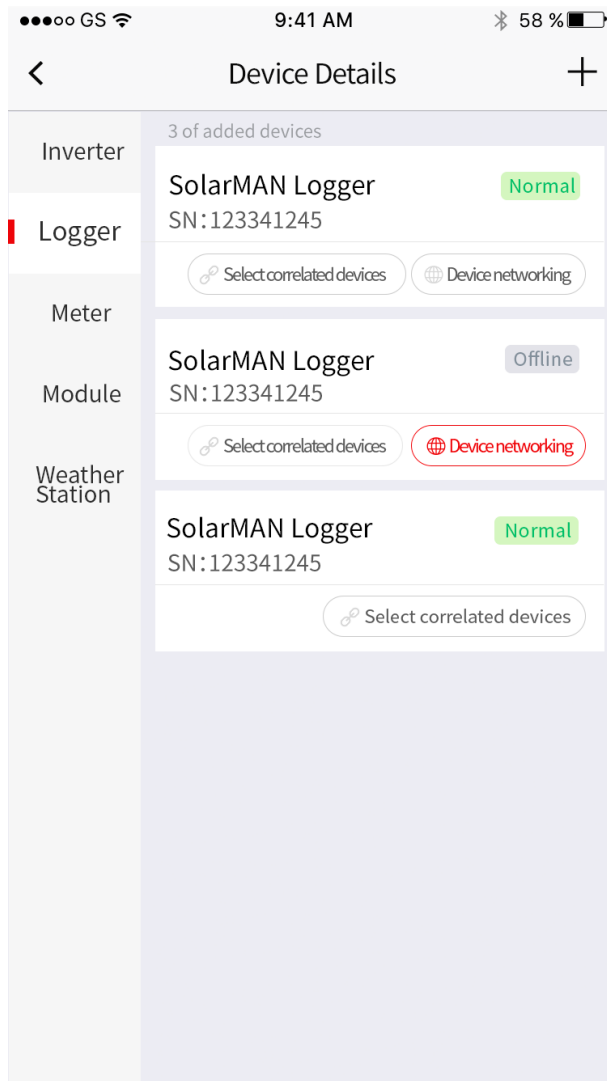
Here are three configuration methods according to different gateway/logger types. Please follow the steps below:

Networking Configuration Steps:

- ( 1 ) Go to "*Device Details*" page;
- ( 2 ) Select gateway/logger which requires networking configuration;
- ( 3 ) Click "*Networking*" to start.

Notice:

- ( 1 ) When "*Networking*" button is grey, it means the device communicates normally.
- ( 2 ) When "*Networking*" button is red, it means the device has not been configured yet or communicates abnormally. You can operate networking configuration first, then check if the network environment is normal. If the network environment is normal and the device is still offline, please try networking configuration again.



## 2.6.1 SmartLink Configuration

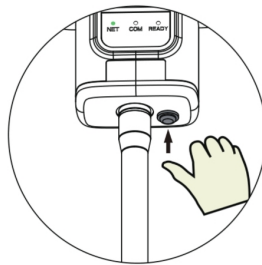
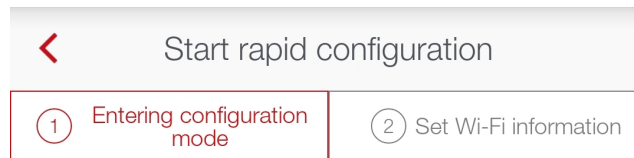
Device Type: CSI-WIFI-2

Device Picture:



Configuration Process:

( 1 ) Go to "Networking" page, short press "Reset Key" for 1s, then NET light flashes, which means entering configuration mode. Check if the phone has connected to WiFi network. If not, go to WLAN settings. If so, go to next step.

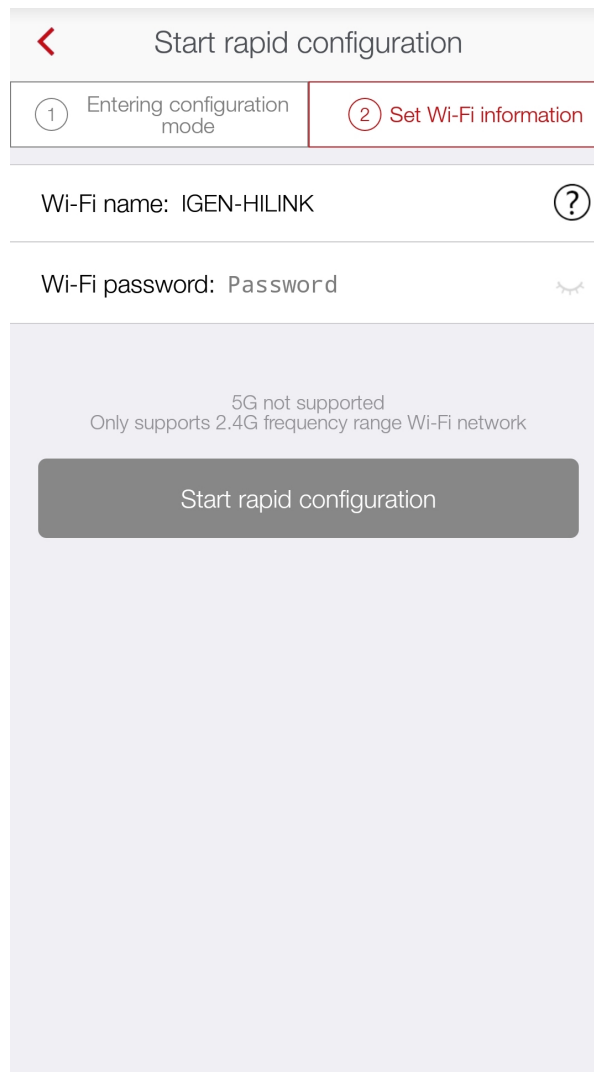


Release after 1s short press  
NET light fast flashing, entering configuration mode

Completed, entering next step

How to reset network setup?

( 2 ) Please make sure the phone has connected to Wi-Fi network, then enter Wi-Fi password and click "Start rapid configuration". (Notice: 5G WiFi is not supported for now.)



( 3 ) If logger signal light flashes slowly, it means successful access to Wi-Fi network. If not, it means unsuccessful access. You can check the signal light again after a few minutes. If the signal light remains the same, you can operate configuration again.



Configuration succeeded

Please check if NET light slow flashes or keeps on

NET light slow flashing or keeping on means connecting the network successfully. Otherwise failed. Please check after few minutes. If indicator lights run abnormally, please configurate again.

I got it

Tips :

1. During the configuration, system will display configuration prompts.
2. If the configuration is not done after 20s, system will consider it as a failure. You can follow the steps here:
  - ( 1 ) Check the failure cause, then click "*Return*" to configure again.
  - ( 2 ) If the configuration is still unsuccessful, please switch configuration mode and enter AP configuration.



Configuration failed

Check the NET light status



Choose according to indicator lights status



Indicator lights fast flashing

Look into the reason >



Indicator lights extinguished

Look into the reason >



Indicator lights slow flashing

Look into the reason >



Indicator lights keep on

Look into the reason >



## < Indicator lights fast flashing

This status indicates that the device has not successfully accessed the Wi-Fi network

The possible reasons are:

- ( 1 ) The device is far away from the router
- ( 2 ) Wi-Fi network is not stable or abnormal
- ( 3 ) Wi-Fi password is not right
- ( 4 ) Please check the antenna, if there is any damage or loose.

Return to modify

If the configuration failed many times, it is recommended to [switch to other configuration mode](#)

## 2.6.2 AP Mode Configuration

Device Type: CSI-WIFI-2

Device Picture:



Device Type: CSI-GS-WiFi

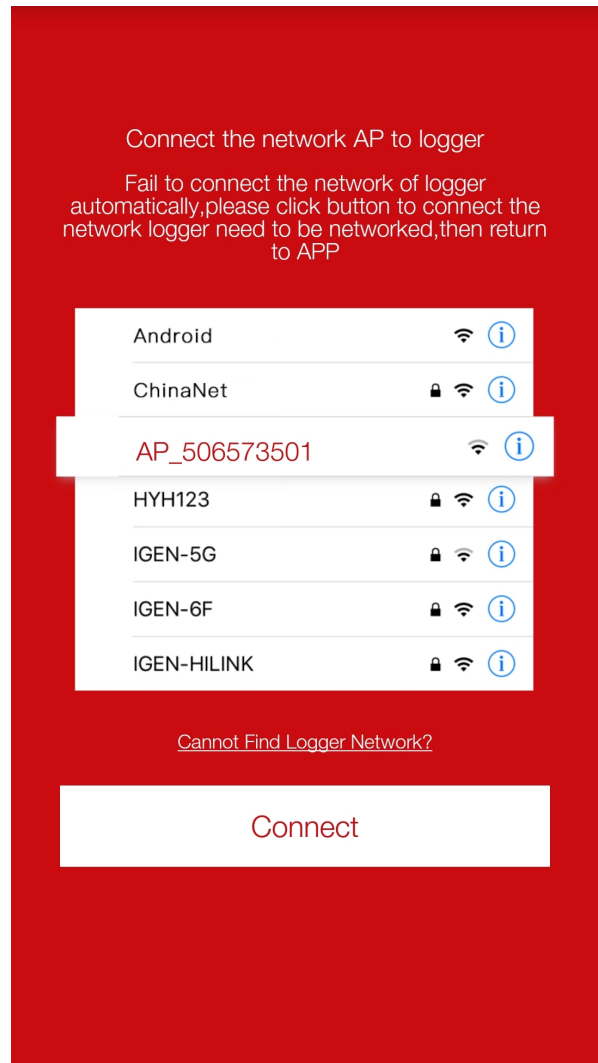
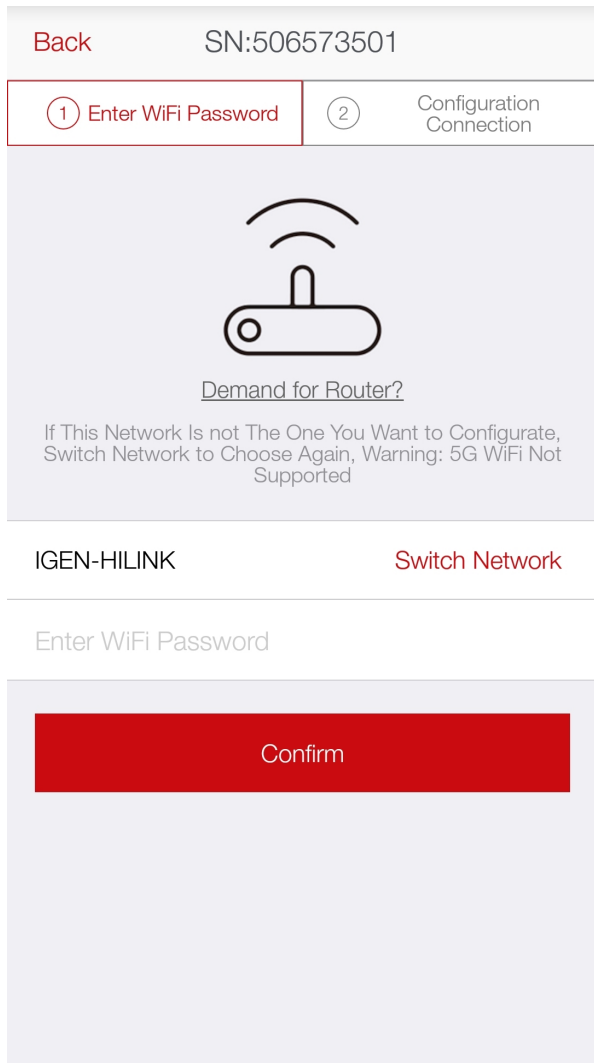
Device Picture:



#### Configuration Process:

(1) Please make sure the phone has connected to WiFi network, then enter WiFi password and go to configure. (APP will obtain WiFi account automatically.)

If the network is not the one you want to configure, you can switch network and select network again. (Notice: 5G WiFi is not supported for now.)

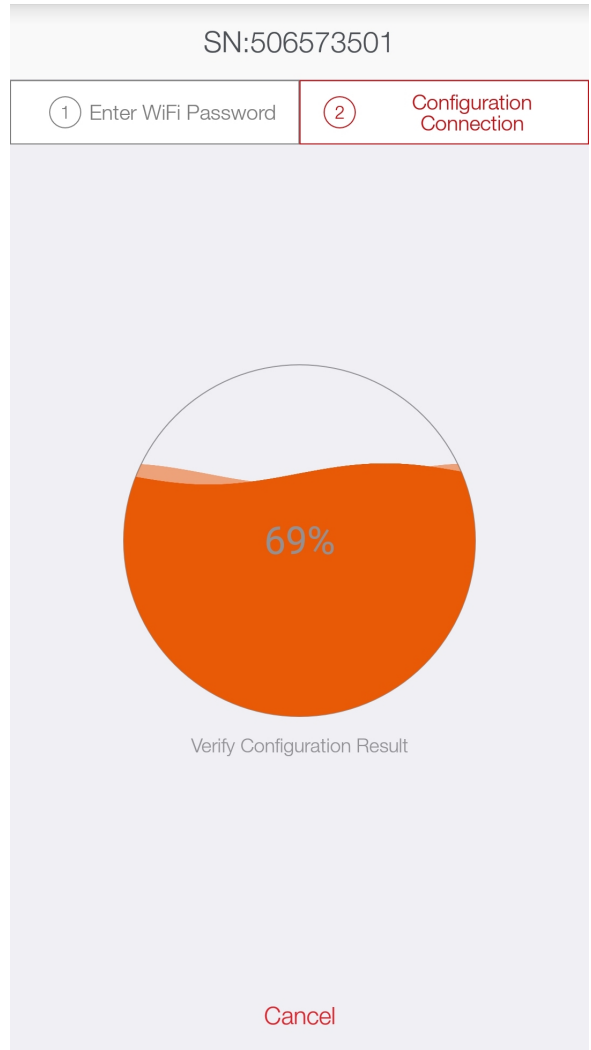
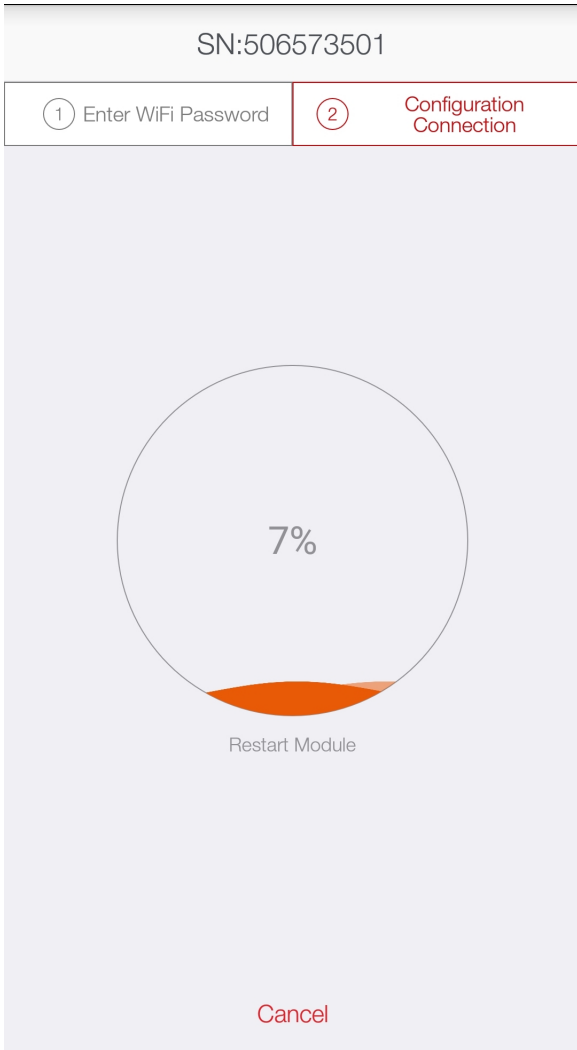


**Tips:**

**If you cannot find AP\_(Logger SN) in the wireless network list, please make sure the distance between logger and WiFi network is less than 10m. If you still cannot find AP\_(Logger SN), it might be the connection or setup problems. Please check "Quick Guide" for troubleshooting.**

**If the problems still cannot be solved, please contact Customer Service.**

( 2 ) Go to "Networking" page, then select logger network AP\_XXXXXXX and start to configure.



( 3 ) Please wait a few minutes until "Configuration Succeeded" shows.

SN:506573501

① Enter WiFi Password

② Configuration Connection



Configuration Succeeded

You Can Click Button below, Continue to Configure Other Devices

Got it

## 2.6.3 Other Devices Configuration

Device Type: CSI-TL-WIFI

Device Picture:



Configuration Process:

(1) Please make sure the phone has connected to WiFi network, then turn on PV devices.

During the first installation, red LED light flashes, it means entering configuration mode.

Then click "Next". If red LED light does not flash, you can short press to trigger.

Please notice:

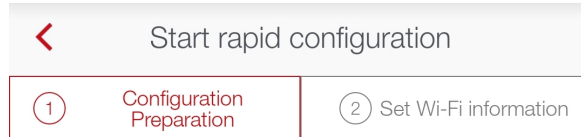
1. Router wireless name consists of letters and numbers. Chinese name is not supported.

2. For security reasons, please use encrypted wireless network, two-factor authentication is not supported for now.

3. Device only supports 2.4 GHz Wi-Fi network. 5GHz is not supported for now.

4. If router or password has been changed, please reset router and configure again.

(Reset: Long press "KEY" button for more than 3s.)



1. Please connect WiFi to router with good signal strength

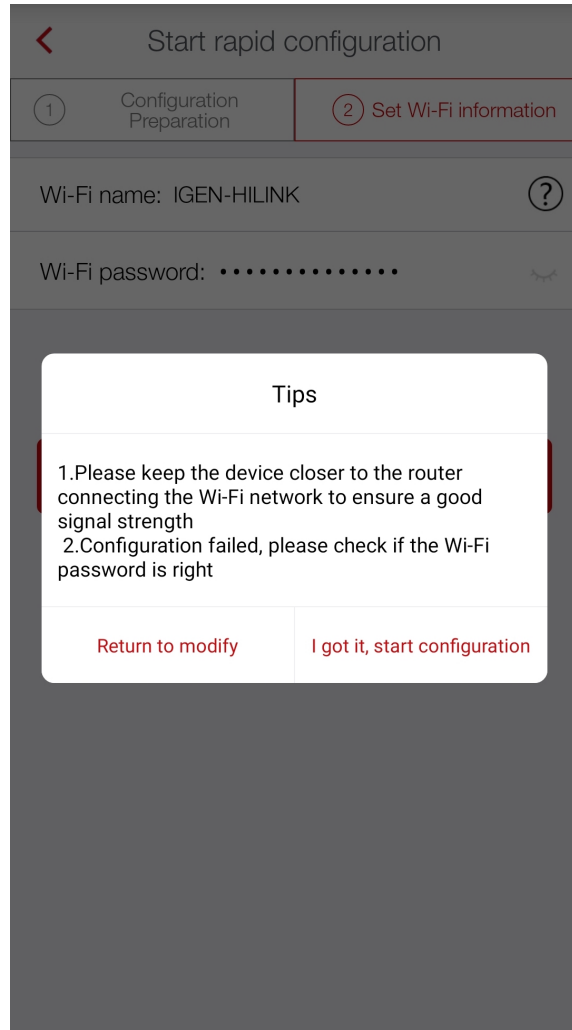
2. After monitoring module installed, turn on PV devices. During the first installation, red LED light will flash, which means entering configuration mode.

Notice :

- (1) The name of the router consists of English and numbers, Chinese is not supported.
- (2) For safety reasons, please use encrypted wireless network, network which requires a second form of authentication is not supported.
- (3) Device only supports 2.4G frequency range, 5G is not supported.
- (4) If the router or password is changed, please reset logger. (Long press KEY for 3s until LED light keeps on.)

Completed, entering next step

( 2 ) After entering Wi-Fi password, click "Start". If the configuration fails, system will display error message. Please refer to the context below to ensure the successful configuration.



## 2.7 Plant Data&Settings

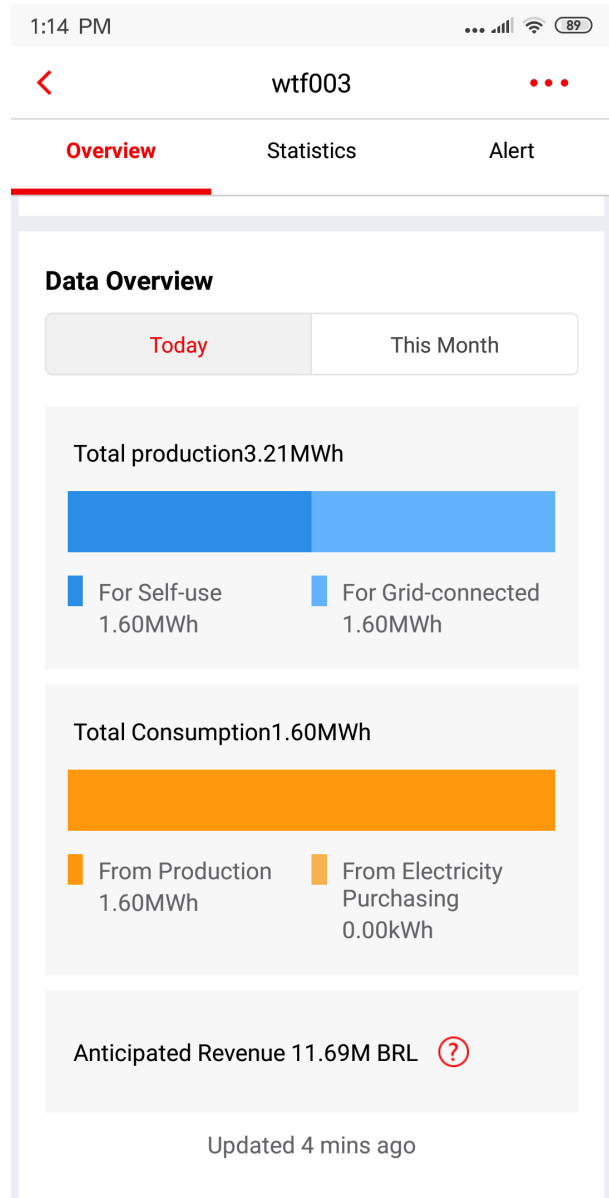
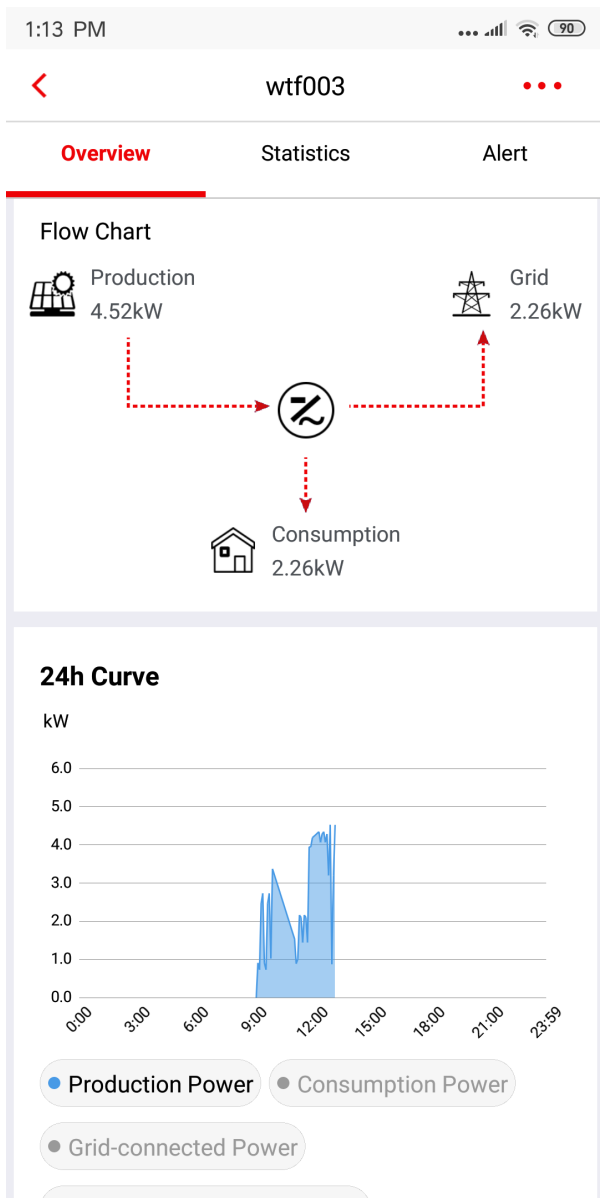
After the plant and device setup is done, you can check plant data and do other operations.

Notice: Please check plant data 10 mins later after networking configuration.

### 2.7.1 Overview

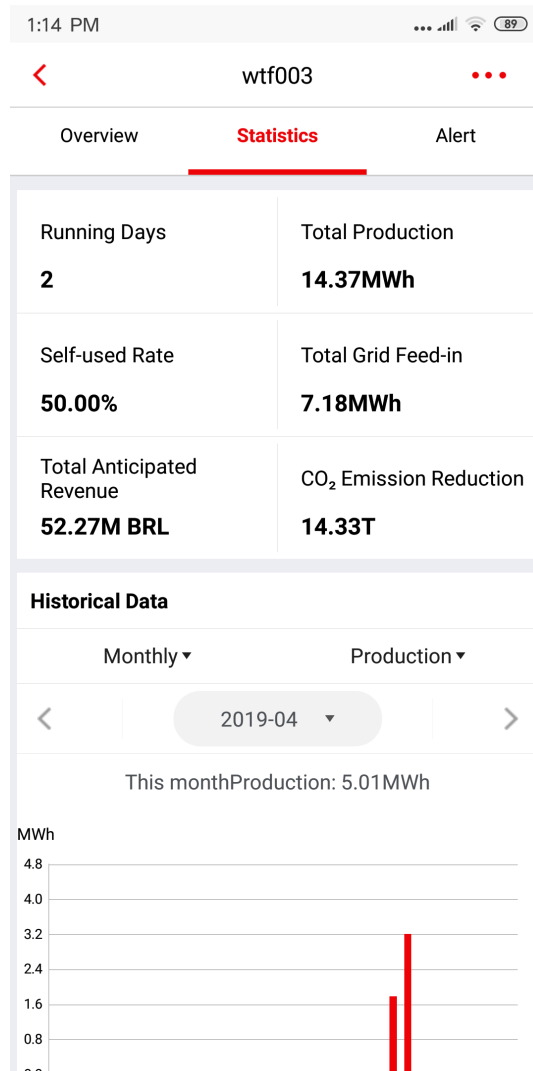
You can check various data on this page. E.g. Flow Chart, 24H Curve, Production, Consumption, anticipated revenue and etc,.





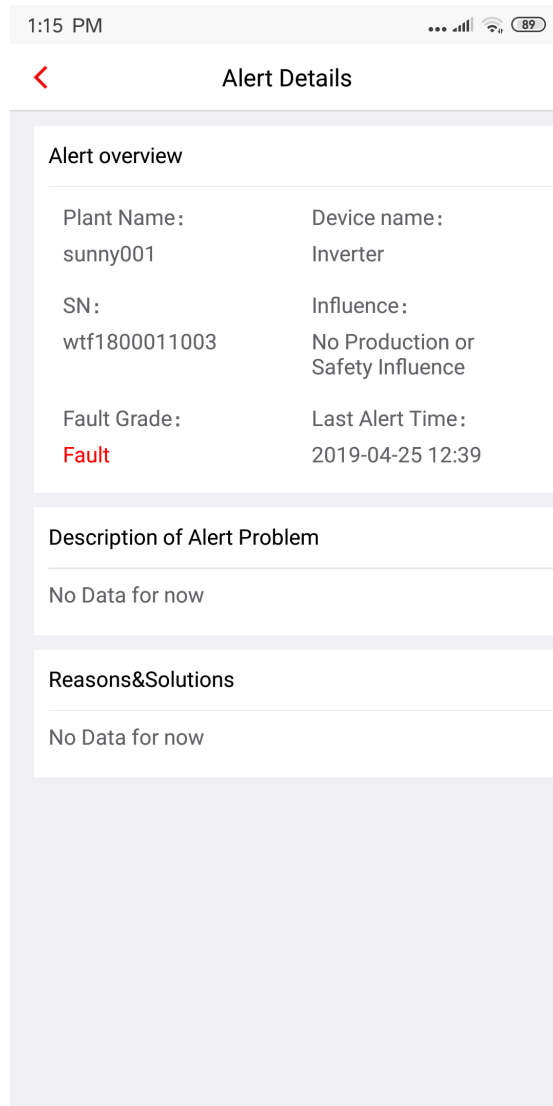
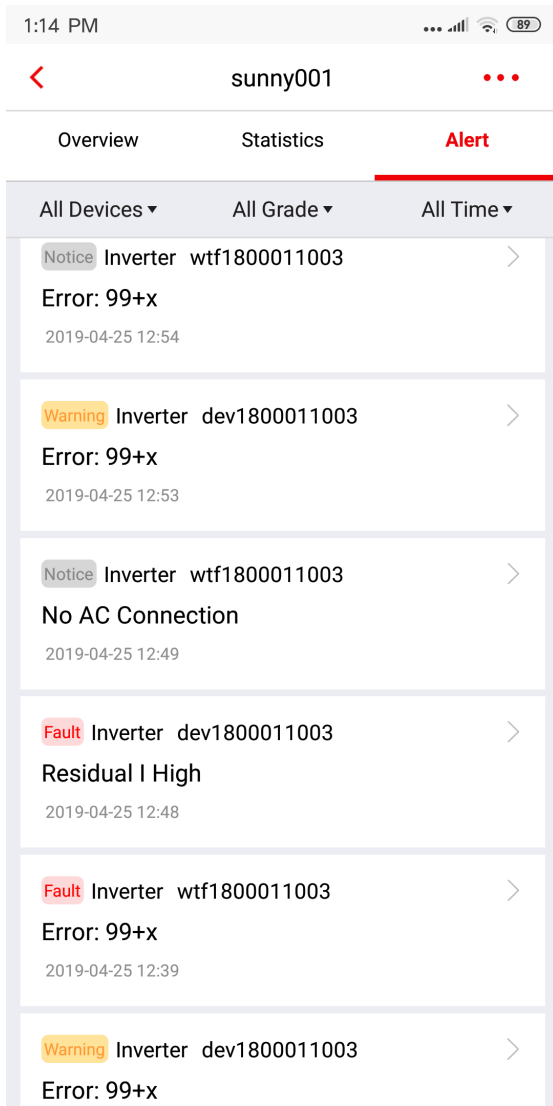
## 2.7.2 Statistics

You can check plant statistics and historical data on this page. You can filter specific date and conditions to query.



## 2.7.3 Alert


You can check plant alert on this page. Alert will be distinguished from alert grade and alert content, which enables you to understand the importance of alerts. Through these alert message, you can learn the fault status of your plant, which avoids property losses.



## 2.7.4 Plant Details

Click the button in the upper-right corner to go to "Plant Details" page.

You can check Basic Info, System Info, Revenue Info and etc,. Moreover, you can modify the information here to ensure a better analysis of plant data.

Basic Info	
Plant cover	
Basic Info	
Plant Name	wtf003
Plant location	Cumbica, Guarulhos - SP, 07190-100 >
Time Zone	(UTC-03:00) Brasilia >
Creation Date	2019-04-24
Founder	Niky
System Info	
Plant Type	Residential Rooftop >
Grid Type	Self-consumption >
Installed Capacity(kWp)	36
Planned Self-used Rate(%)	0~100

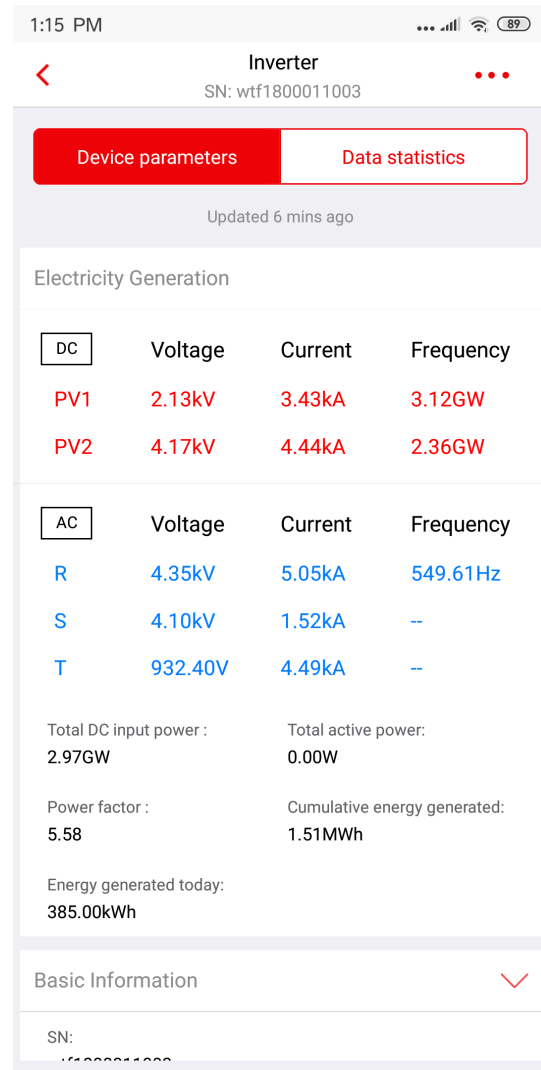
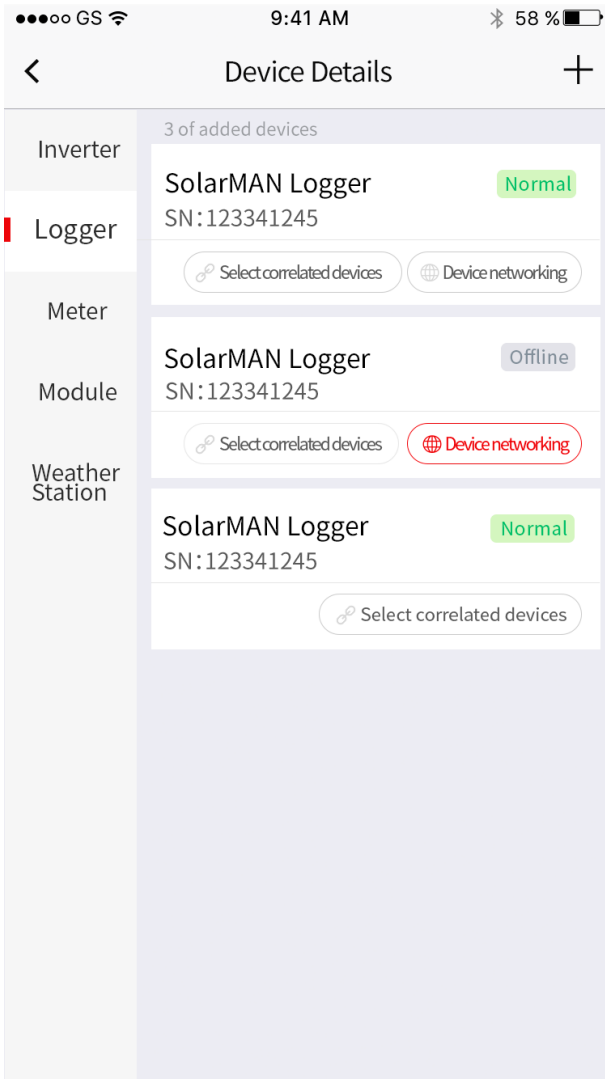
Creation Date	2019-04-24
Founder	Niky
System Info	
Plant Type	Residential Rooftop >
Grid Type	Self-consumption >
Installed Capacity(kWp)	36
Planned Self-used Rate(%)	0~100
Azimuth(°)	0~180
Angle of tilt ( ° )	0~90
Commissioning Date <span style="color: red;">i</span>	2019-04-24 >
Revenue Info	
Currency	BRL >
Feed-in Tariff(BRL/kWh) <span style="color: red;">i</span>	3636
Total cost(BRL)	Please enter (Optional)

## 2.7.5 Device Info

Click the button in the upper-right corner to go to "Device Info" page.

You can check device information on this page. Click a specific device to check real-time data.

And you can check if the device is running normally.



Click the button in the upper-right corner on "Device Details" page. You can edit or unbind the device here. If the device is gateway/logger, you can operate networking configuration. If the device is meter, you can operate meter configuration.

## 2.7.6 Authorization Info

Click the button in the upper-right corner to go to "Authorization Info" page.

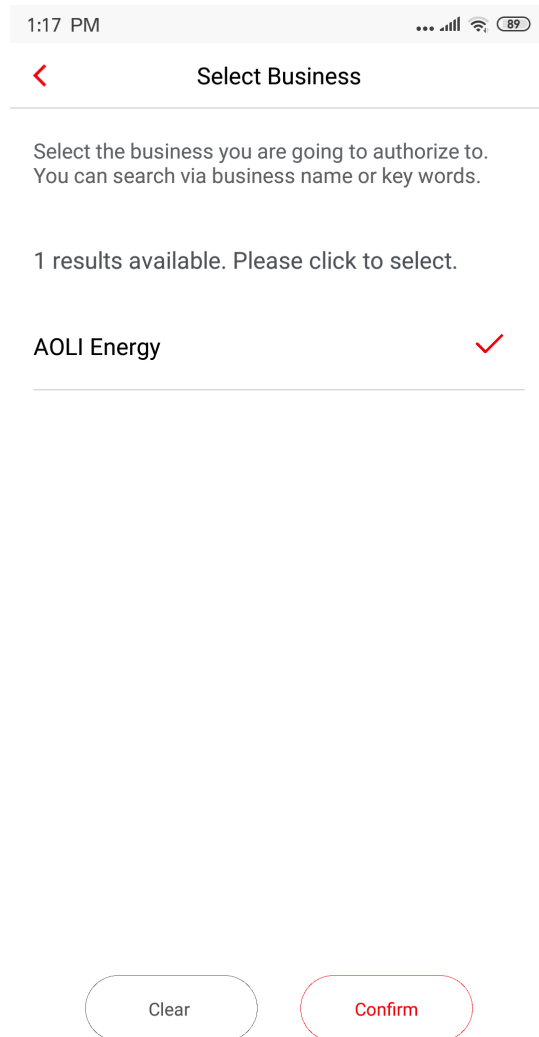
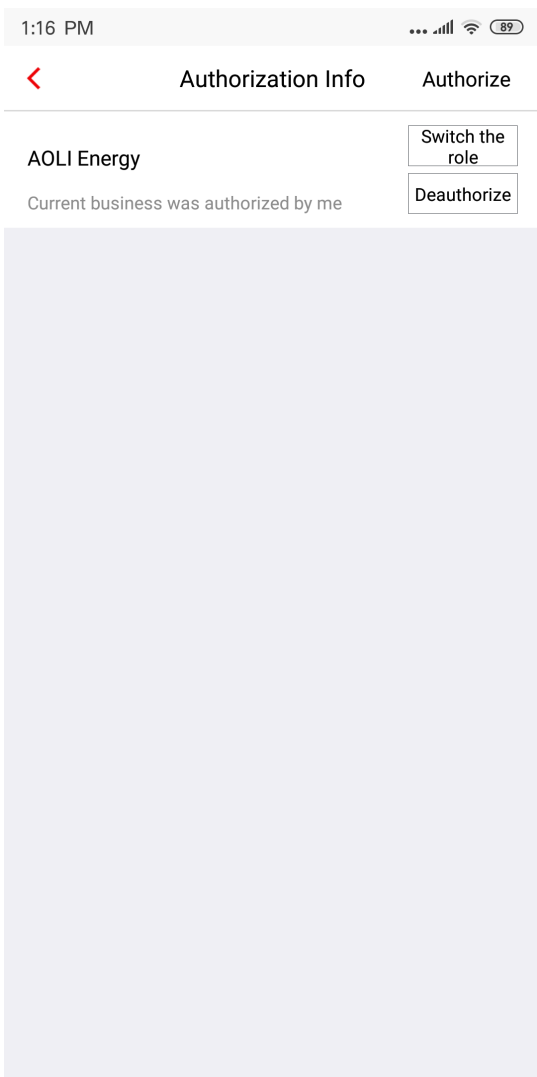
You can check plant authorization information on this page. According to plant property, there are two types of plant. One is created by myself. Another is authorized by others.

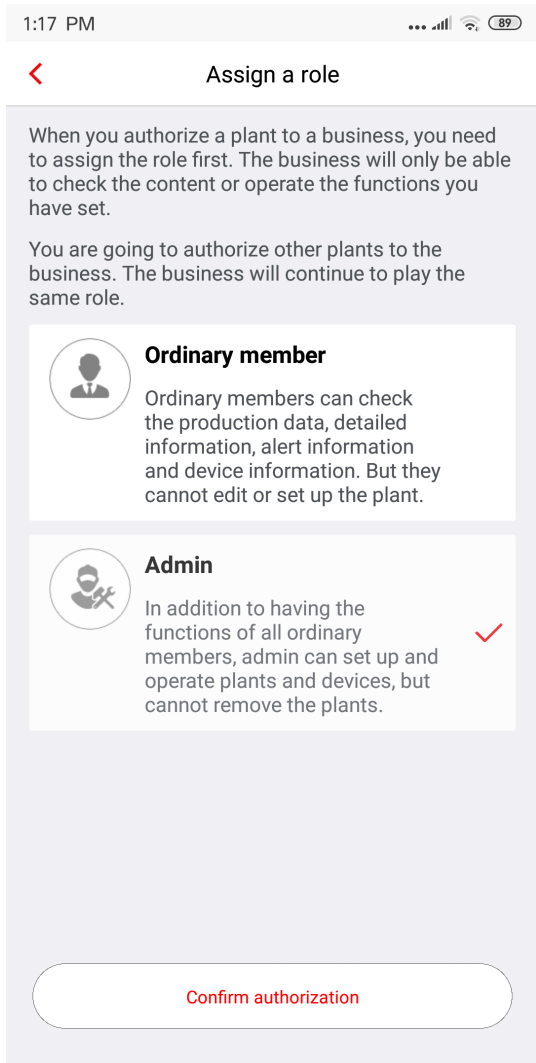
( 1 ) Created by myself

Please refer to authorization steps here. You can authorize the plant to your business who serves you. After that, the authorized business can check your plant and devices. The authorization scope is determined by the role you set for the business.

If the business is "Ordinary Member" role, business can check all plant data.

If the business is "Admin" role, business can check all plant data and operate the plant/devices.

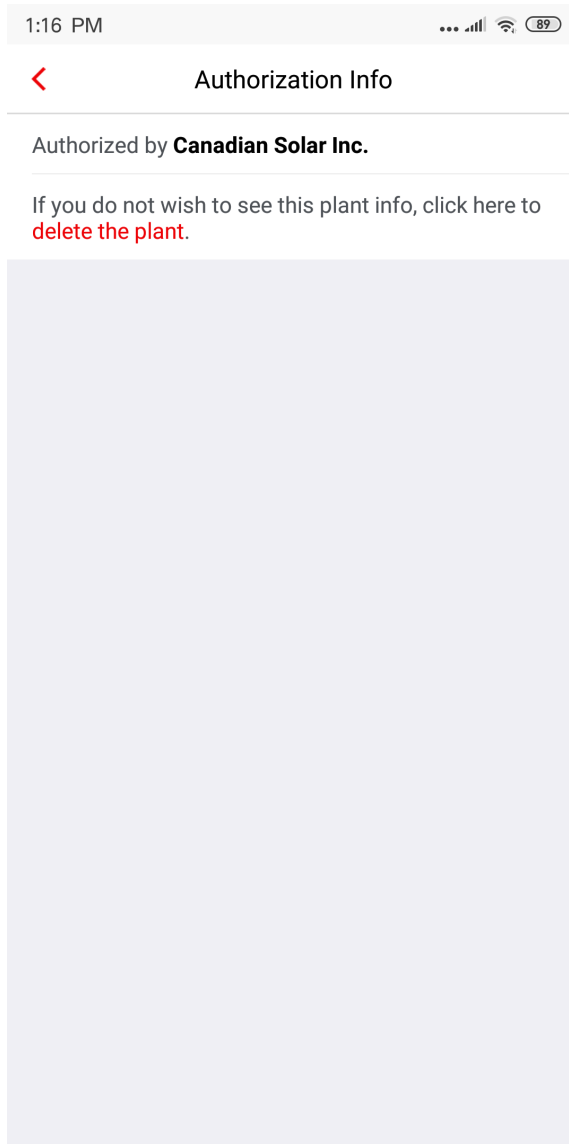




## ( 2 ) Authorized by others

Currently, business can authorize the plant to users. Users can check data of authorized plants within the permissions.

Users cannot authorize such plants again. If users do not wish to see the plant, click "*Delete Plant*".



## 2.7.7 More Settings

Click the button in the upper-right corner to go to "More Settings" page.

You can set plant properties and rules here.

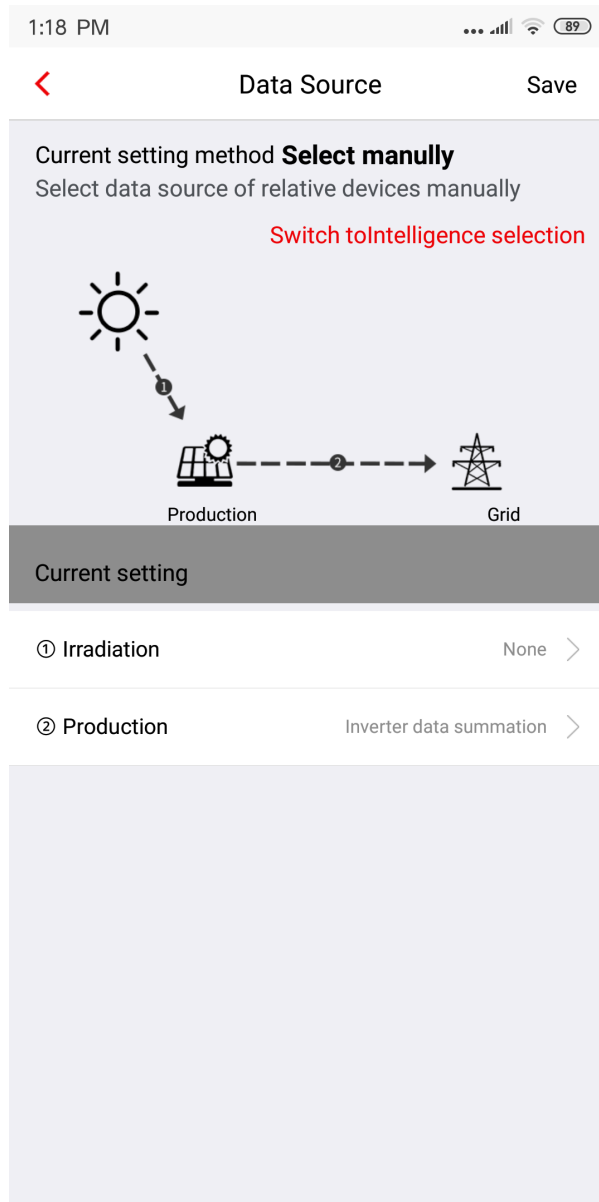
### ( 1 ) Data Source

You can set the data source for irradiation, production, grid, consumption to ensure data accuracy.

Default data source: Intelligent Selection. System will select data source based on plant actual



situation. Or you can modify manually.



## 2.7.8 Delete Plant

Click the button in the upper-right corner to go to "Delete Plant" page. System will display a popup dialog twice for confirmation. After your confirmation, the plant will be deleted from your account. The deletion is not recoverable and all the data will be deleted. Please be

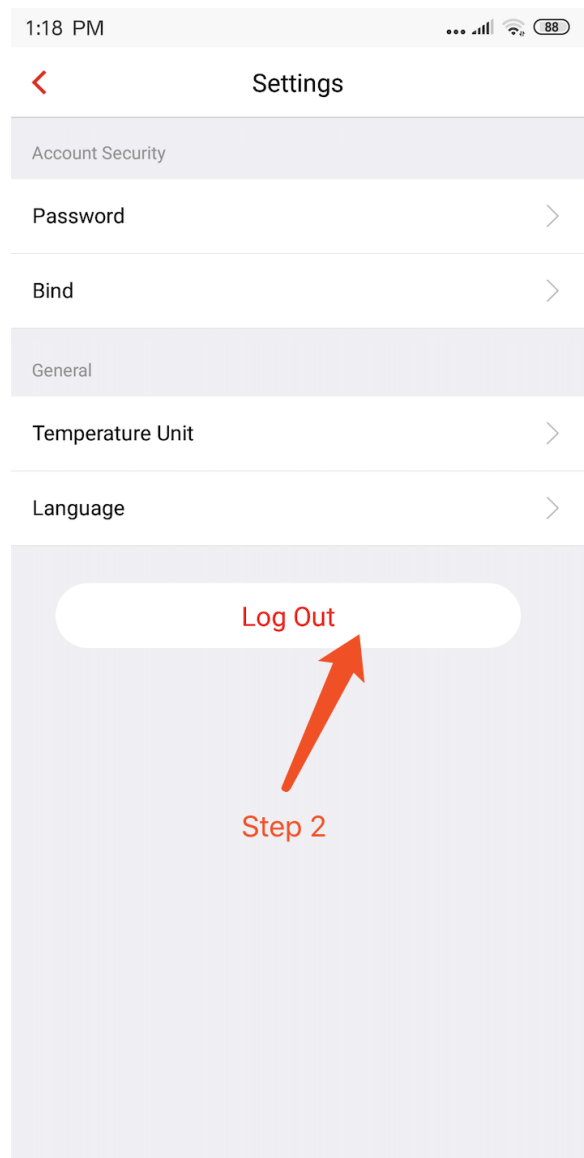
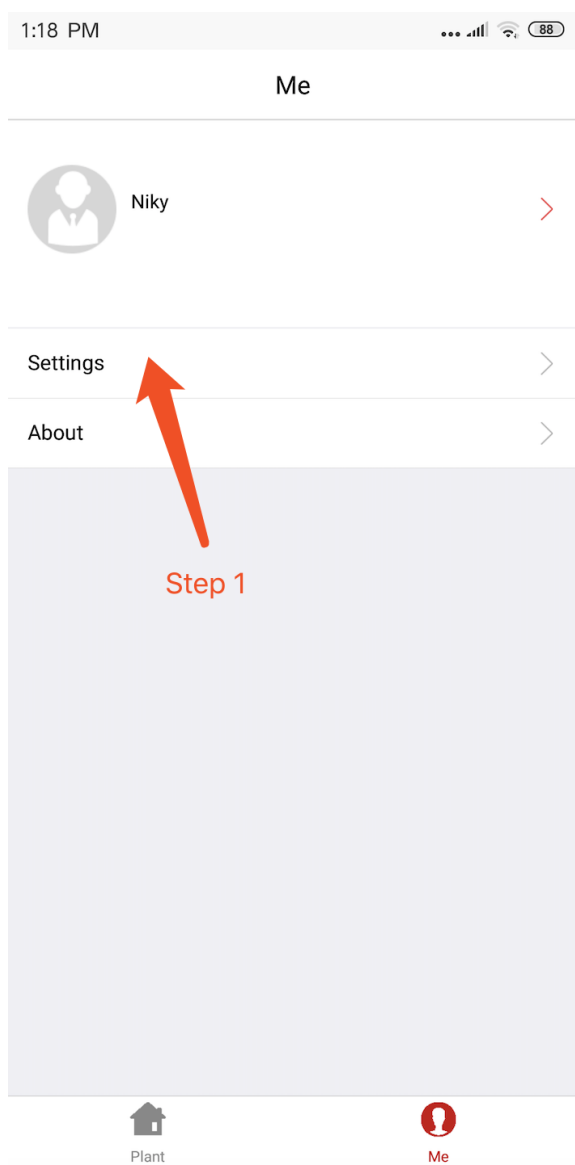
cautious!

Notice: Authorized plant cannot be deleted.

## 2.8 Account&System Info

### 2.8.1 Log Out

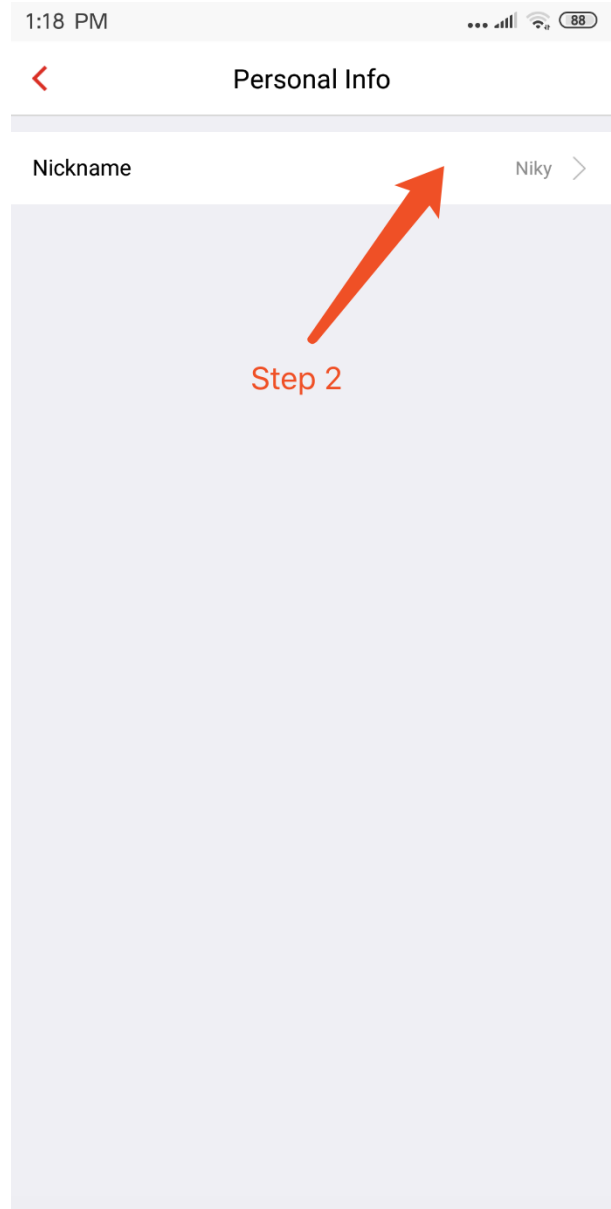
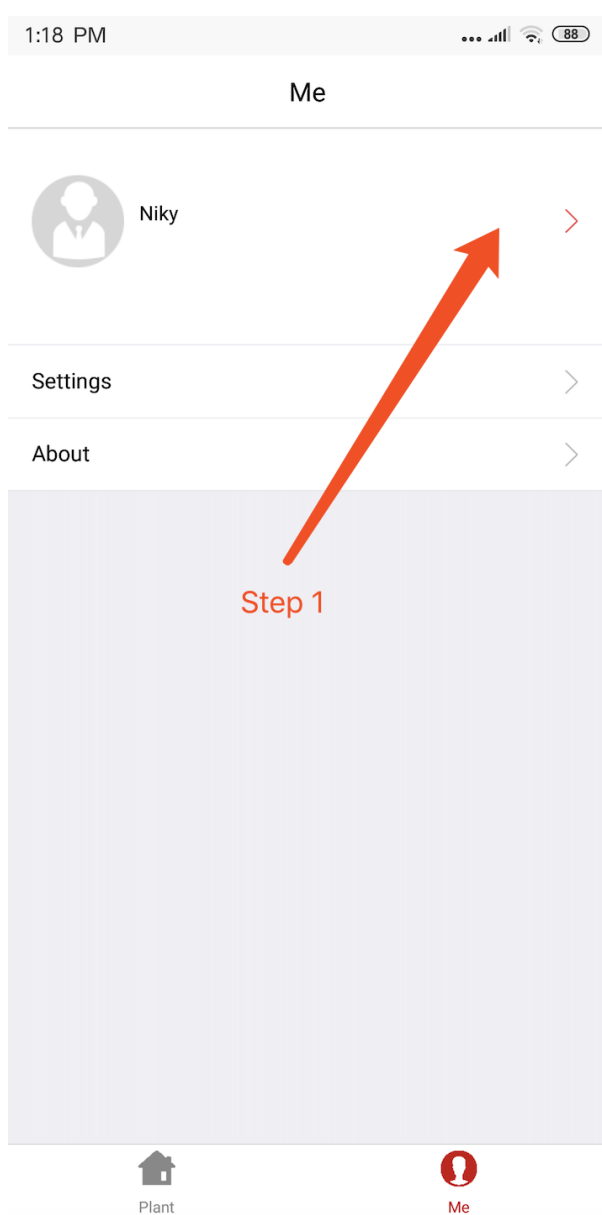
Please follow the red arrows below to log out.



## 2.8.2 Personal Info

Please follow the red arrows below to modify personal info.

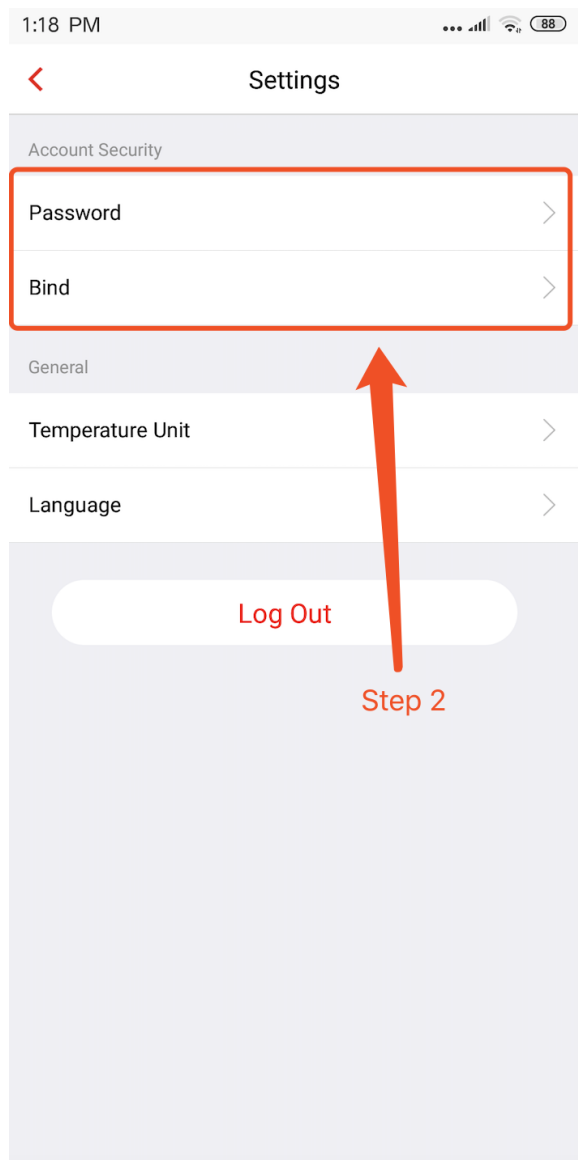
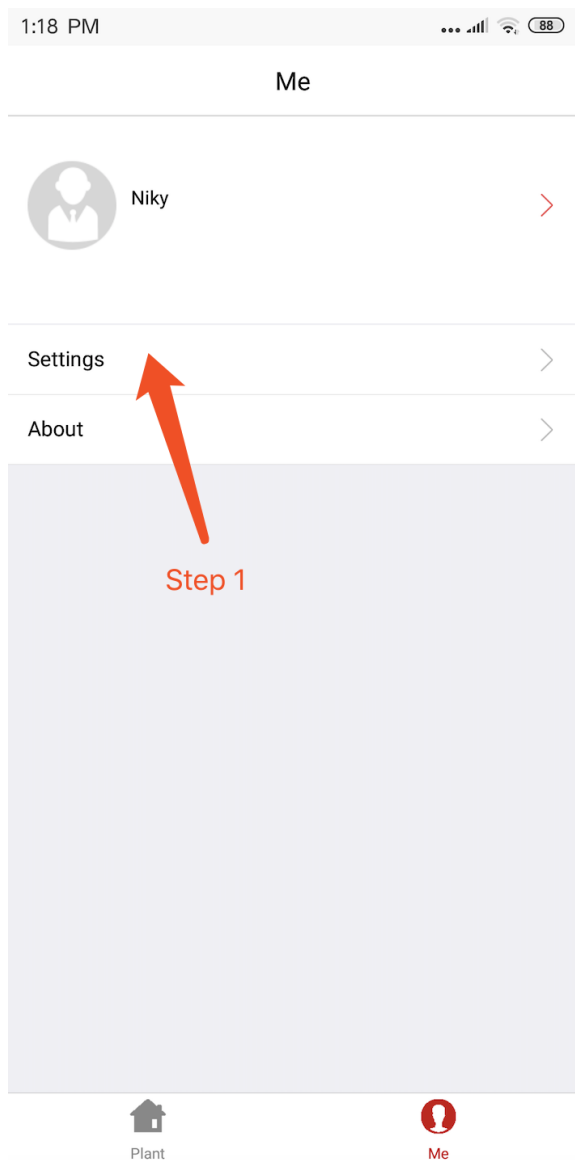
Notice: Nickname can be modified. Avatar cannot be modified.



## 2.8.3 Account Security

Please follow the red arrows below to modify account password and bind phone/E-mail.

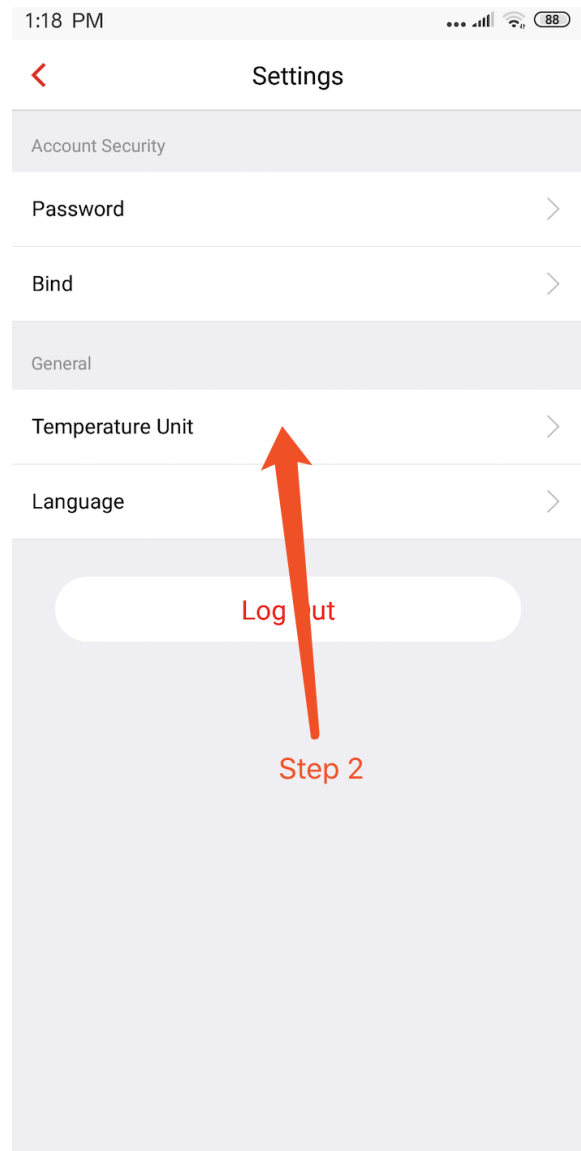
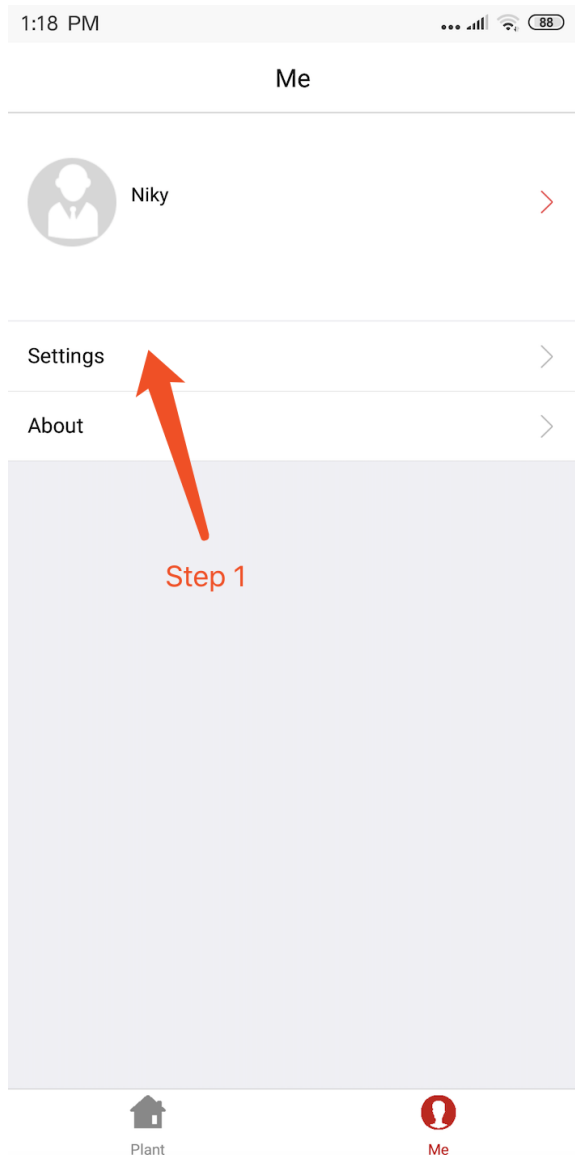
Notice: If you log in to CSI Cloud App via username, please bind phone/E-mail first. After that, you can modify account password.



## 2.8.4 General

### ( 1 ) Temperature Unit

Please follow the red arrows below to select temperature unit. Only support Celsius and Fahrenheit for now.



### ( 2 ) Language

Please follow the red arrows below to select language. System supports Chinese(Simplified), English, Português and español.

