

# Wi-Fi Portal Introduction

## Contents

1. Operation on Laptop .....	3
2. Authorization.....	12
3. For Mobile Device .....	16
4. Maintenance .....	26
4.1 Download battery logs .....	26
Method 1:.....	26
Method 2:.....	27
4.2 Battery firmware upgrade.....	29

This document is for Pylontech product end-user to register on the Wi-Fi portal to monitor battery status and acquire battery information.

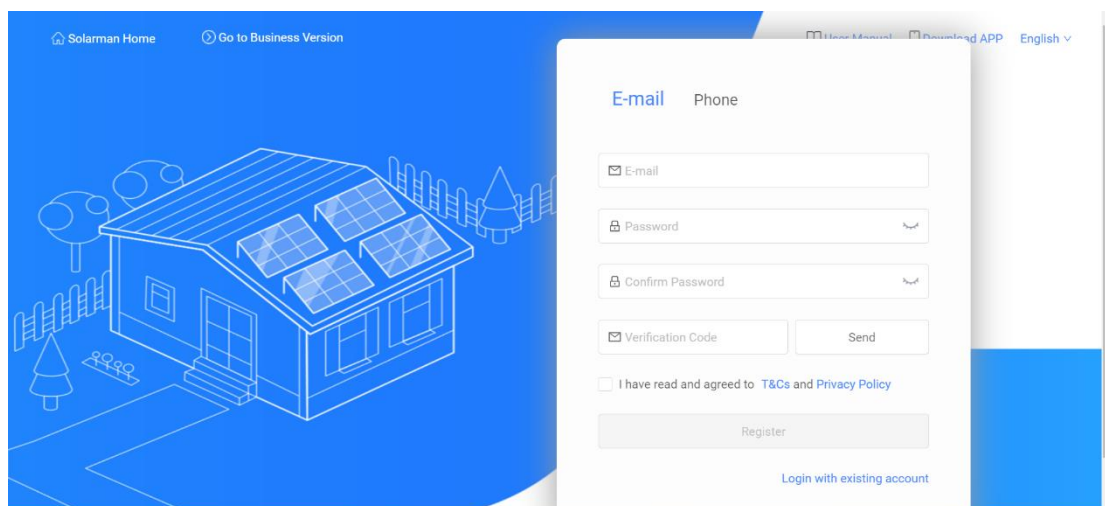
The WIFI logger is currently available on FORCE H and Force L series of products. Further development on other product series is in the processing.

# 1. Operation on Laptop

a. Login to the website <https://home.solarmanpv.com/login>.

There are two methods to register an account: email or mobile number registration

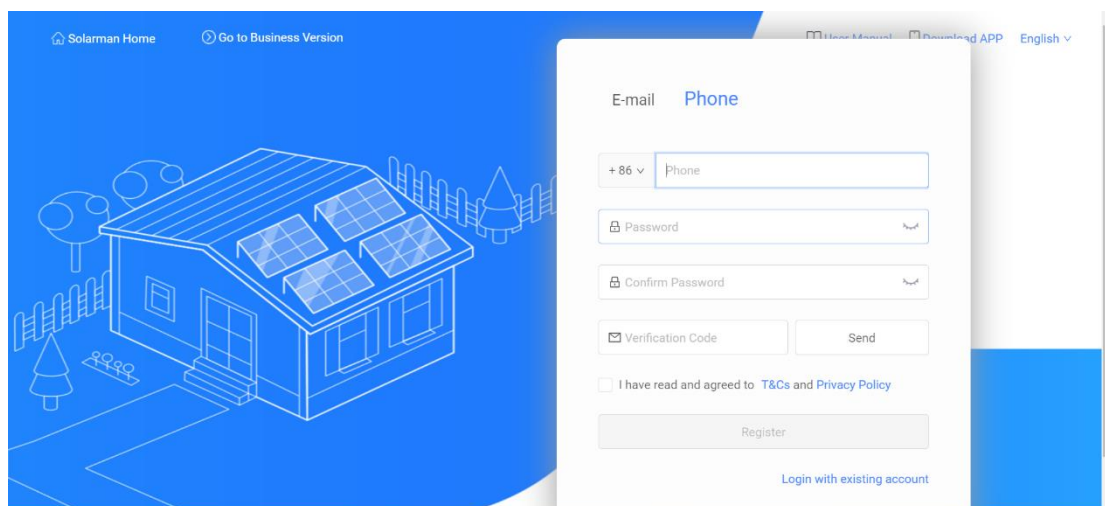
E-mail registration:



The screenshot shows the 'E-mail' registration form on the Solarman website. The form is titled 'E-mail' and 'Phone'. It includes the following fields and elements:

- E-mail
- Password
- Confirm Password
- Verification Code
- 
- I have read and agreed to [T&Cs](#) and [Privacy Policy](#)
- 
- [Login with existing account](#)

Mobile phone registration:

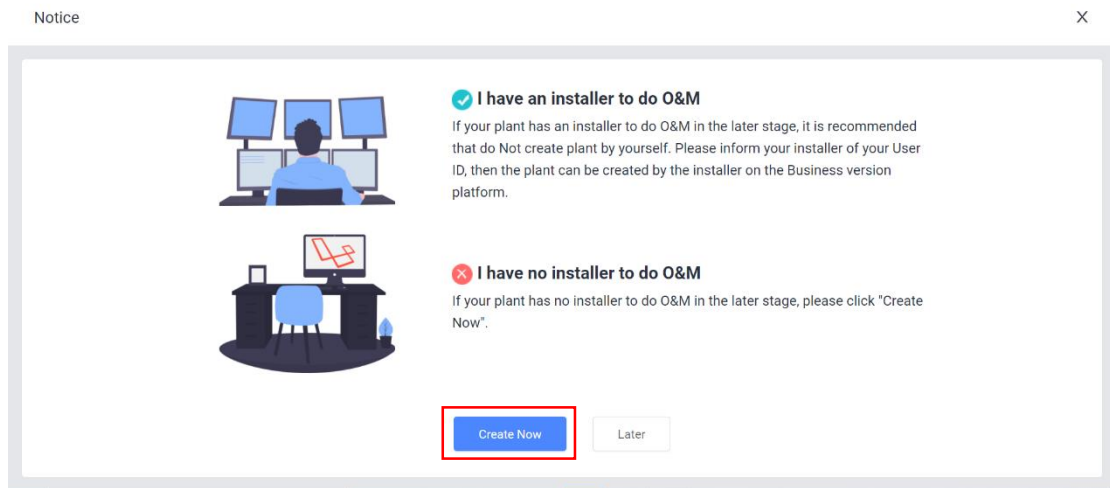
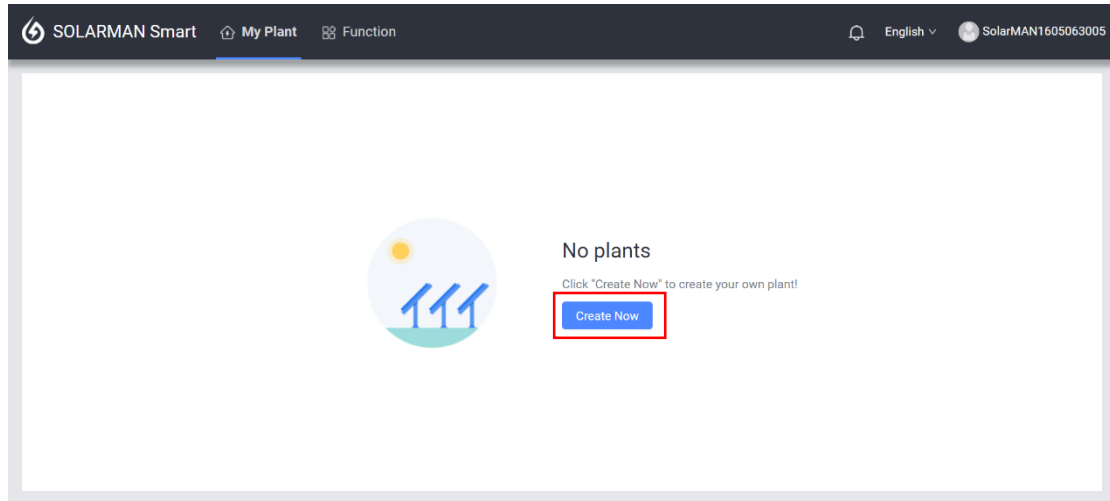


The screenshot shows the 'Phone' registration form on the Solarman website. The form is titled 'E-mail' and 'Phone'. It includes the following fields and elements:

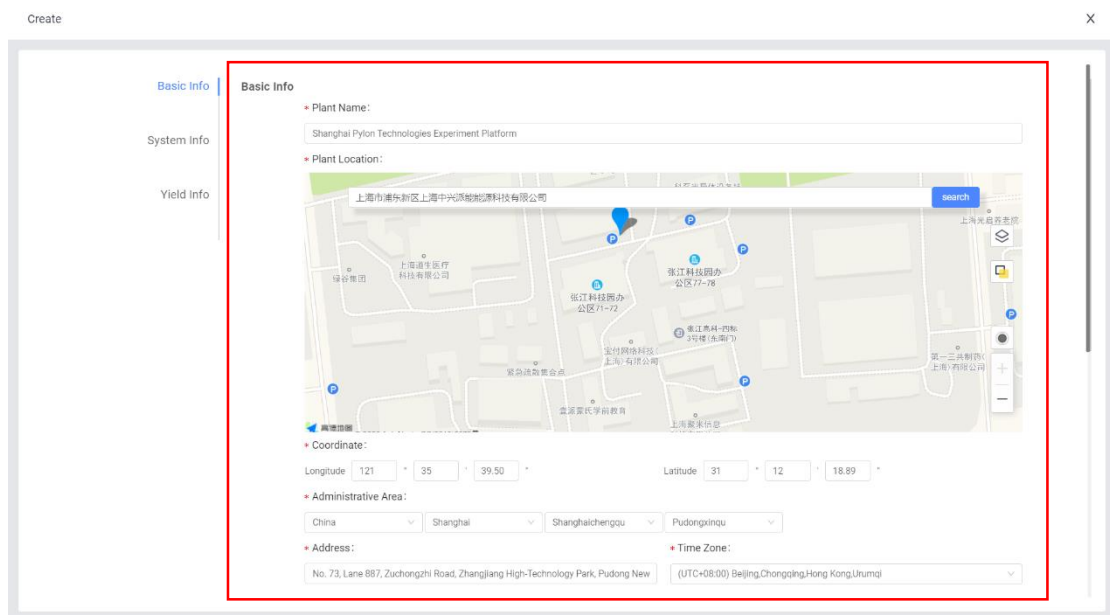
- +86 Phone
- Password
- Confirm Password
- Verification Code
- 
- I have read and agreed to [T&Cs](#) and [Privacy Policy](#)
- 
- [Login with existing account](#)

b. Build a new plant.

After the registration is completed, users will be prompted to build a new plant. A power station can be built according to the guidance.



On the page of creating power plant, basic information, system information and yield information can be provided to finish the creation.



Create X

China
Shanghai
Shanghaichengqu
Pudongqinqu

**Basic Info**

\* Address: No. 73, Lane 887, Zuchongzhi Road, Zhangjiang High-Technology Park, Pudong New

\* Time Zone: (UTC+08:00) Beijing,Chongqing,Hong Kong,Urumqi

---

**System Info**

\* Plant Type: Residential Rooftop

\* Installed Capacity (Unit: kWp): 100

\* System Type ID: Storage System

\* Operating Date ID: 2020-11-11

---

**Yield Info**

\* Currency: CNY

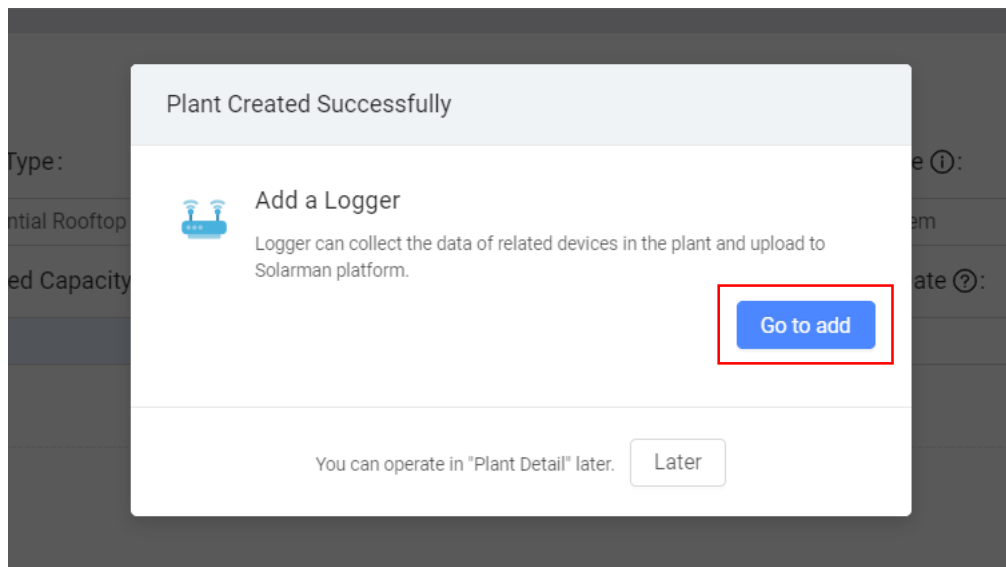
Total Cost(Unit: CNY): Total Construction Cost

Unit Price(Unit: CNY/kWh) ID: Unit Price

Finish

c. Add a new logger.

When finishing the creation of plant, the system will prompt to add a logger (the serial number can be viewed by the code posted on the device or hotspot name), enter the logger SN number to add it, and choose to automatically select the associated device when adding the logger.



Add a Logger

X

SN:



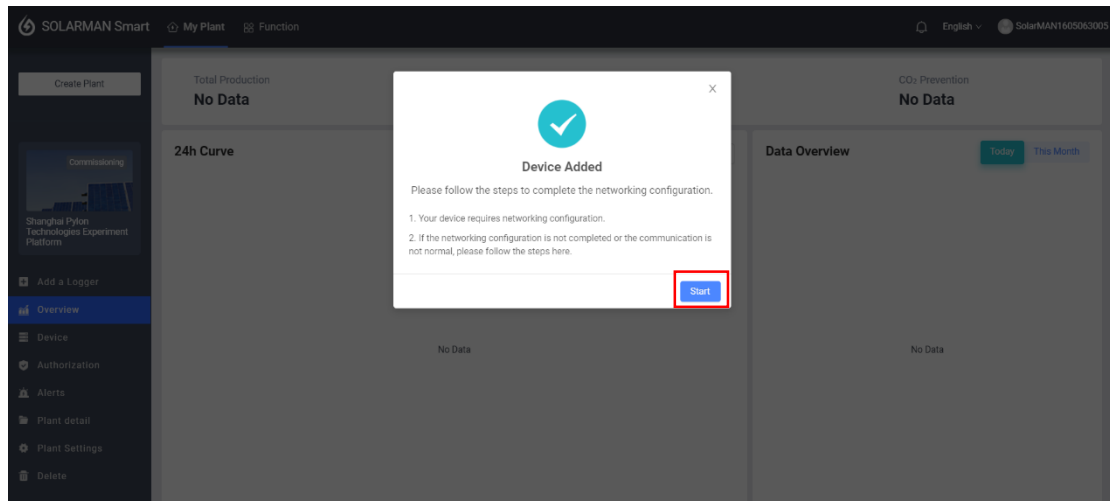
Serial number position

Add a Logger

X

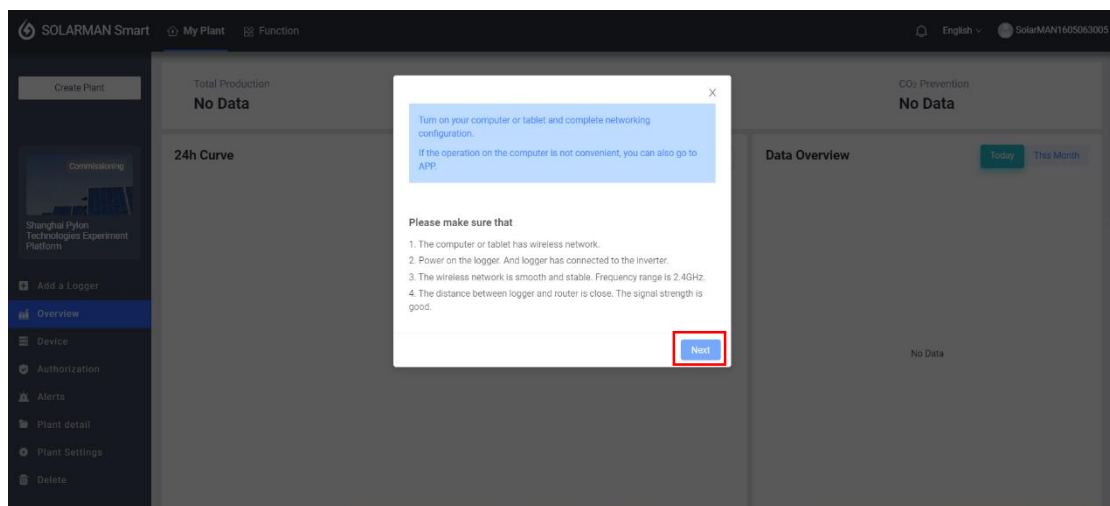
SN: 4033112143

Please select sub-device:

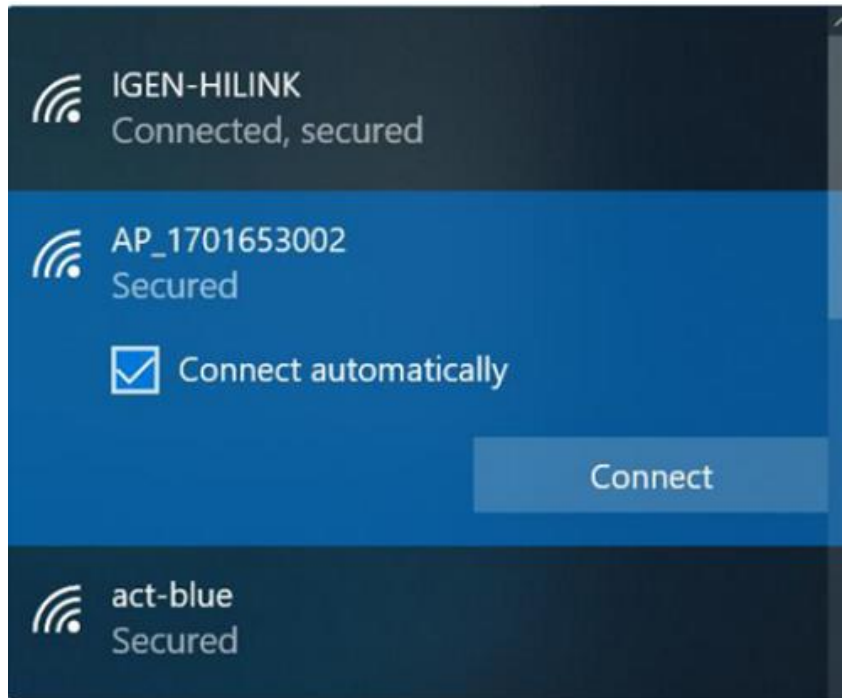


d. Network configuration.

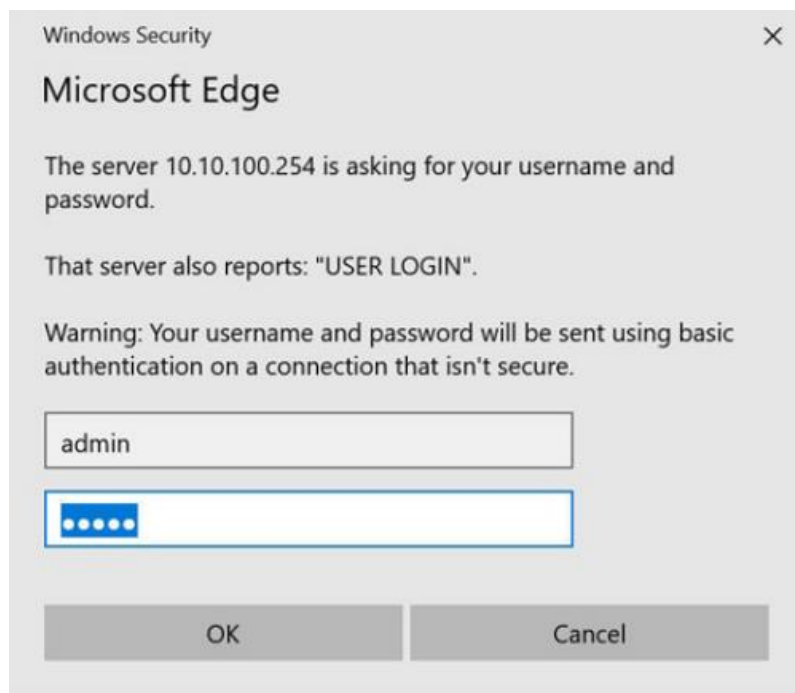
The network configuration steps of the logger are as follows:



Go to wireless network list and connect to "AP\_123456"(123456 is logger SN). The connection do not require password.



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



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



中文 | English

- Status
- Wizard
- Quick Set**
- Advanced
- Upgrade
- Restart
- Reset

**- Inverter information**

Inverter serial number	0046884424-0
Firmware version (main)	---
Firmware version (slave)	---
Inverter model	---
Rated power	--- W
Current power	--- W
Yield today	0.0 kWh
Total yield	0.0 kWh
Alerts	---
Last updated	0

+ Device Information

+ Remote server information

**Help**

The device can be used as a wireless access point (AP mode) to facilitate users to configure the device, or it can also be used as a wireless information terminal (STA mode) to connect the remote server via wireless router.

**Status of remote server**

\*Not connected:  
Connection to server failed last time.  
If under such status, please check the issues as follows:  
(1) check the device information to see whether IP address is obtained or not;  
(2) check if the router is connected to internet or

中文 | English

- Status
- Wizard
- Quick Set**
- Advanced
- Upgrade
- Restart
- Reset

Network name (SSID)  
(Note: case sensitive)

Encryption method

Encryption algorithm

Password (8-64 bytes)  
(Note: case sensitive)

Obtain an IP address automatically

IP address

Subnet mask

Gateway address

DNS server address

\*Note: After clicking Save, the system will restart immediately.

**Help**

In this page, you can click the "Search" button to automatically search for nearby wireless access point, and connect your device to it by setting the network parameters.

\*Note: If you haven't set this kind of device before, please follow the setup wizard.

\*Note: After clicking Save, the system will restart immediately.

You need to re-login the configuration interface after restart.

Click "Search" button on the page, users can find existed wireless network servers around their locations.

中文 | English

- Status
- Wizard
- Quick Set**
- Advanced
- Upgrade
- Restart
- Reset

**Please select your current wireless network**

Site Survey

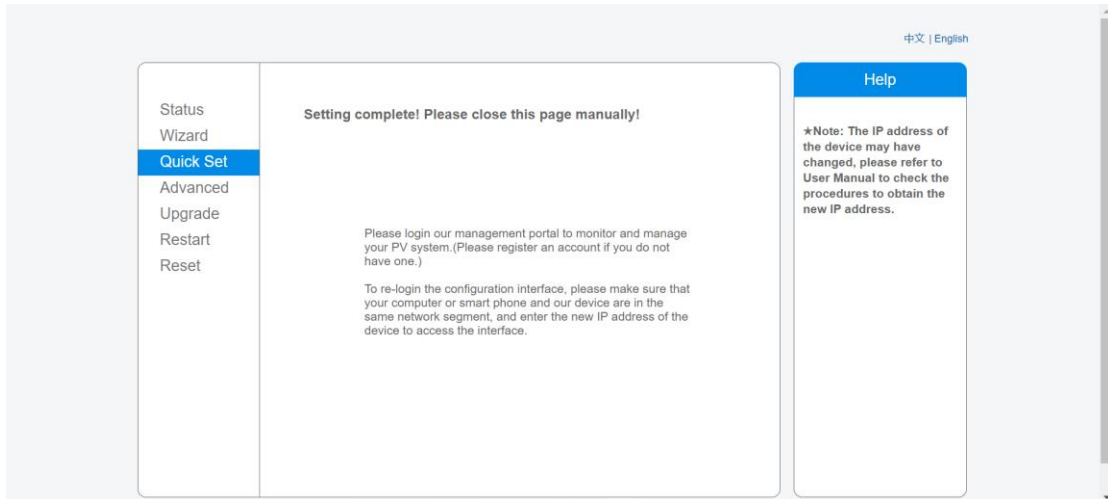
SSID	BSSID	RSSI	Channel
<input checked="" type="radio"/> PYLONTECH-RESEARCH	6:74:9C:2D:78:9E	100	1
<input type="radio"/> PYLONTECH-RESEARCH	6:74:9C:2D:83:66	86	11
<input type="radio"/> 360深测测德板绿希	D0:FA:1D:2E:B:8C	47	1
<input type="radio"/> MXCHIP_B48FF5	B0:F8:93:84:8F:F6	47	6
<input type="radio"/> AP_4010081005	9C:D8:63:79:48:C0	45	8
<input type="radio"/> PYLONTECH-RESEARCH	6:74:9C:2D:83:62	42	6
<input type="radio"/> PYLONTECH-RESEARCH	6:74:9C:2D:78:72	23	6
<input type="radio"/> AP_1701683607	98:D8:63:F6D:65	16	6
<input type="radio"/> measlab	82:EA:7:14:82:9F	13	1
<input type="radio"/> Secure_Visitor	7E:44:FD:F1:AF:3B	11	7

\*Note: When RSSI of the selected WiFi network is lower than 15%, the connection may be unstable, please select other available network or shorten the distance between the device and router.

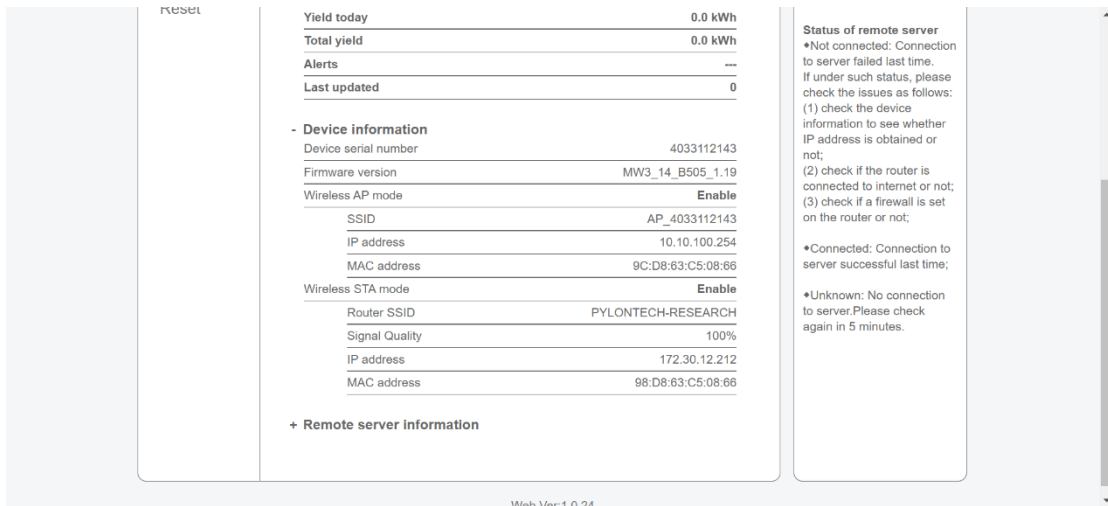
**Help**

Please refresh repeatedly if there is no desirable wireless access point available.

Select one site, and click "OK" to finish the setting.

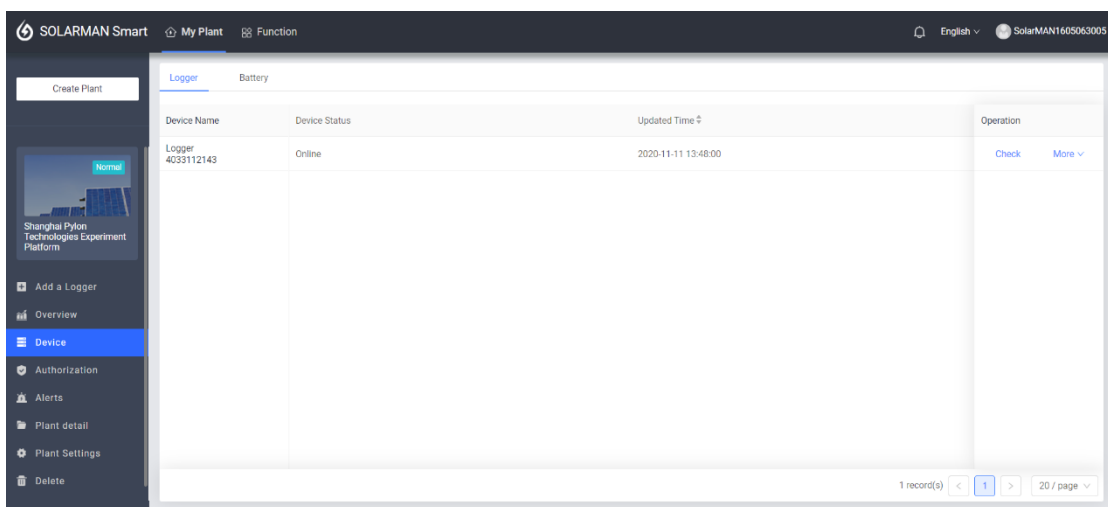


In the status window, the device information can now be viewed.



e. View the battery information.

After the logger is connected to the Internet, return to the Wi-Fi platform interface, and the battery status information can be viewed in the device battery information bar.



To check device data, just click the "Check" button, select "Architecture" window, click

## “Parent device” part.

Battery4010913561 ● Online 2020-11-13 16:01:32 X

[Device Data](#) [Architecture](#)

---

**Basic Information** ^

Connected Device SN: 004010913561

---

**Battery pack** ^

No. of Battery Pack: 2

---

**Battery Pack 1** ^

Battery Pack 1 Connected Device Sn: 1252656548545785	Battery Pack 1 Device Name: Force_L	Battery Pack 1 Brand: Pylon-----
Voltage-1: 48.13V	Current-1: 0A	Battery Pack 1 SOC: 11%
Cell voltage 1-1 Warning: 0	Cell voltage 1-2 Warning: 0	Cell voltage 1-3 Warning: 0
Cell voltage 1-4 Warning: 0	Cell voltage 1-5 Warning: 0	Cell voltage 1-6 Warning: 0
Cell voltage 1-7 Warning: 0	Cell voltage 1-8 Warning: 0	Cell voltage 1-9 Warning: 0
Cell voltage 1-10 Warning: 0	Cell voltage 1-11 Warning: 0	Cell voltage 1-12 Warning: 0
Cell voltage 1-13 Warning: 0	Cell voltage 1-14 Warning: 0	Cell voltage 1-15 Warning: 0

Battery4010913561 ● Online 2020-11-13 16:01:32 X

[Device Data](#) [Architecture](#)

---

**Battery Pack 1** ^

Battery Pack 1 Connected Device Sn: 1252656548545785	Battery Pack 1 Device Name: Force_L	Battery Pack 1 Brand: Pylon-----
Voltage-1: 48.13V	Current-1: 0A	Battery Pack 1 SOC: 11%
Cell voltage 1-1 Warning: 0	Cell voltage 1-2 Warning: 0	Cell voltage 1-3 Warning: 0
Cell voltage 1-4 Warning: 0	Cell voltage 1-5 Warning: 0	Cell voltage 1-6 Warning: 0
Cell voltage 1-7 Warning: 0	Cell voltage 1-8 Warning: 0	Cell voltage 1-9 Warning: 0
Cell voltage 1-10 Warning: 0	Cell voltage 1-11 Warning: 0	Cell voltage 1-12 Warning: 0
Cell voltage 1-13 Warning: 0	Cell voltage 1-14 Warning: 0	Cell voltage 1-15 Warning: 0
BMS Temperature Warning Battery Pack 1: 0	Temperature Point 1 Warning Battery Pack 1: 0	Temperature Point 2 Warning Battery Pack 1: 0
Temperature Point 3 Warning Battery Pack 1: 0	Temperature Point 4 Warning Battery Pack 1: 0	Temperature Point 4 Warning Battery Pack 1: 0
Battery Pack 1 Charge current Warning: 0	Battery Pack 1 Module voltage Warning: 0	Battery Pack 1 Discharge current Warning: 0
Battery Pack 1 Remain Capacity: 8.14AH	Battery Pack 1 Module Total Capacity: 74AH	

Battery4010913561 ● Online 2020-11-13 16:01:32 X

[Device Data](#) [Architecture](#)

---

**Battery Pack 2** ^

Battery Pack 2 Connected Device Sn: 1212121212111111	Battery Pack 2 Device Name: Force_L	Battery Pack 2 Brand: Pylon-----
Voltage-2: 48.13V	Current-2: -0.1A	Battery Pack 2 SOC: 11%
Cell voltage 2-1 Warning: 0	Cell voltage 2-2 Warning: 0	Cell voltage 2-3 Warning: 0
Cell voltage 2-4 Warning: 0	Cell voltage 2-5 Warning: 0	Cell voltage 2-6 Warning: 0
Cell voltage 2-7 Warning: 0	Cell voltage 2-8 Warning: 0	Cell voltage 2-9 Warning: 0
Cell voltage 2-10 Warning: 0	Cell voltage 2-11 Warning: 0	Cell voltage 2-12 Warning: 0
Cell voltage 2-13 Warning: 0	Cell voltage 2-14 Warning: 0	Cell voltage 2-15 Warning: 0
BMS Temperature Warning Battery Pack 2: 0	Temperature Point 1 Warning Battery Pack 2: 0	Temperature Point 2 Warning Battery Pack 2: 0
Temperature Point 3 Warning Battery Pack 2: 0	Temperature Point 4 Warning Battery Pack 2: 0	Temperature Point 4 Warning Battery Pack 2: 0
Battery Pack 2 Charge current Warning: 0	Battery Pack 2 Module voltage Warning: 0	Battery Pack 2 Discharge current Warning: 0
Battery Pack 2 Remain Capacity: 8.14AH	Battery Pack 2 Module Total Capacity: 74AH	

In the historical data window, a line chart of some basic data of the battery at any date should be represented.



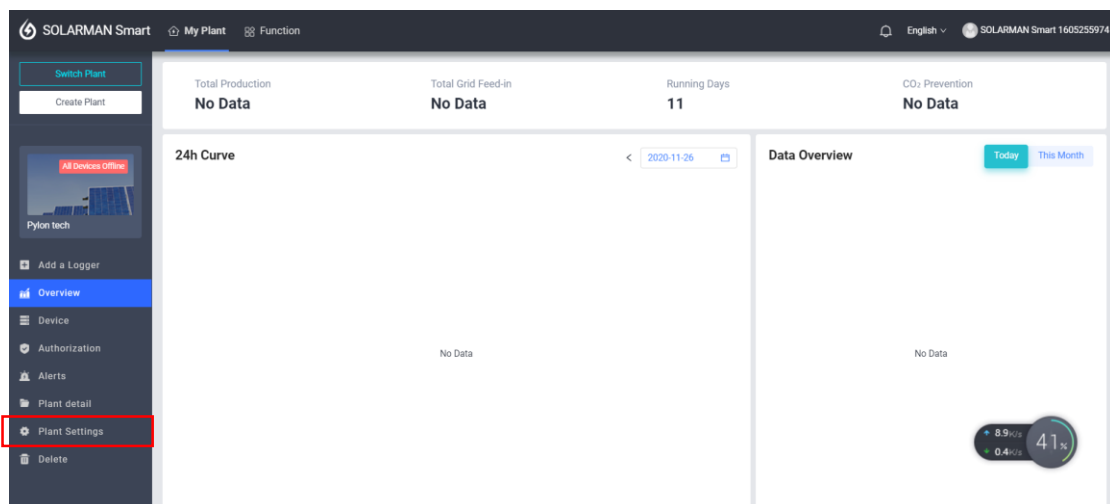
## 2. Authorization

Authorization is a function of specifying access rights/privileges to resources, which is related to information security or computer security in general and to access control in particular. After authorization, the business unit can obtain the information provided by the producer and the user can customize the information available for sharing at the same time.

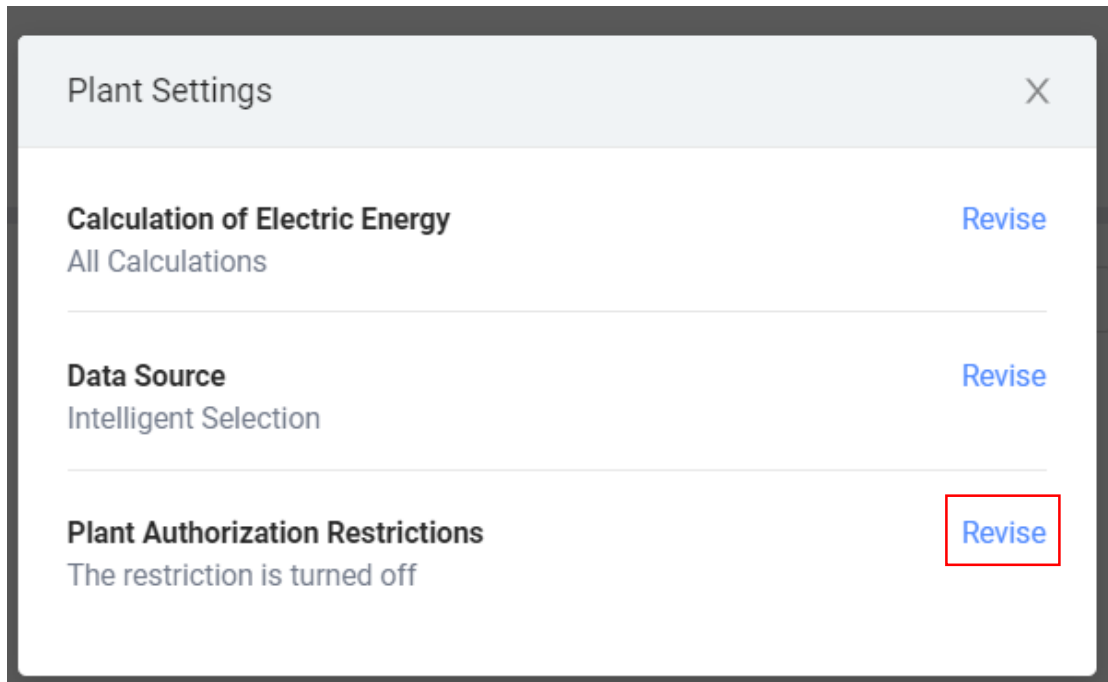
Authorization can only be managed on laptop.

### a. Before start

Before starting the authorization operation, users should check the authorization settings through “plant settings” button.

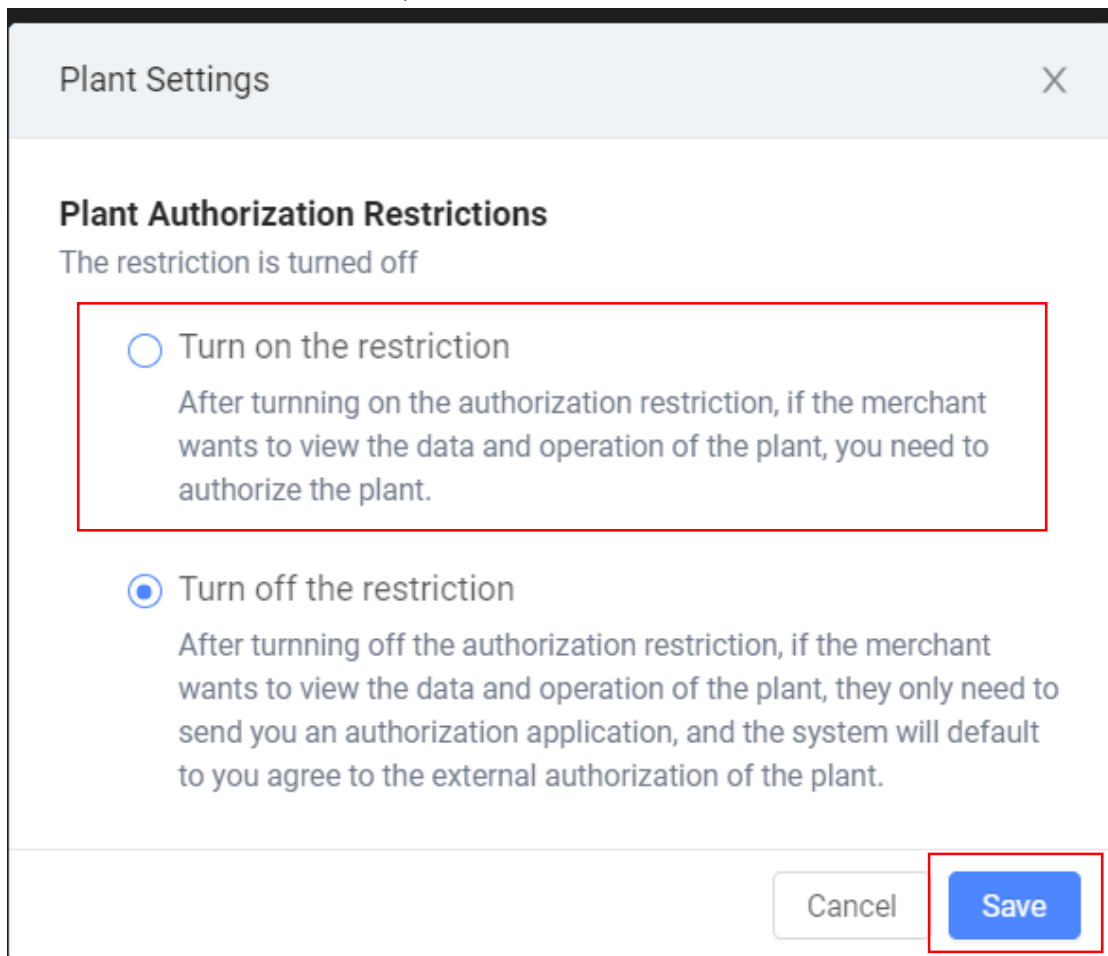


Then view “Plant Authorization Restrictions”, if the restriction is turned off, click “Revise” to change it.



The screenshot shows a 'Plant Settings' dialog box with a close button (X) in the top right corner. It contains three sections: 'Calculation of Electric Energy' with a 'Revise' button, 'Data Source' with a 'Revise' button, and 'Plant Authorization Restrictions' with a 'Revise' button. The 'Plant Authorization Restrictions' section is highlighted with a red box and shows the text 'The restriction is turned off'.

Choose “Turn on the restriction”, and “Save it”.



The screenshot shows a 'Plant Authorization Restrictions' dialog box with a close button (X) in the top right corner. The title is 'Plant Authorization Restrictions' and the text below it says 'The restriction is turned off'. There are two radio button options: 'Turn on the restriction' (which is highlighted with a red box) and 'Turn off the restriction'. Below each option is a descriptive paragraph. At the bottom right, there are two buttons: 'Cancel' and 'Save' (which is highlighted with a red box).

Now, the authorization function could be used.

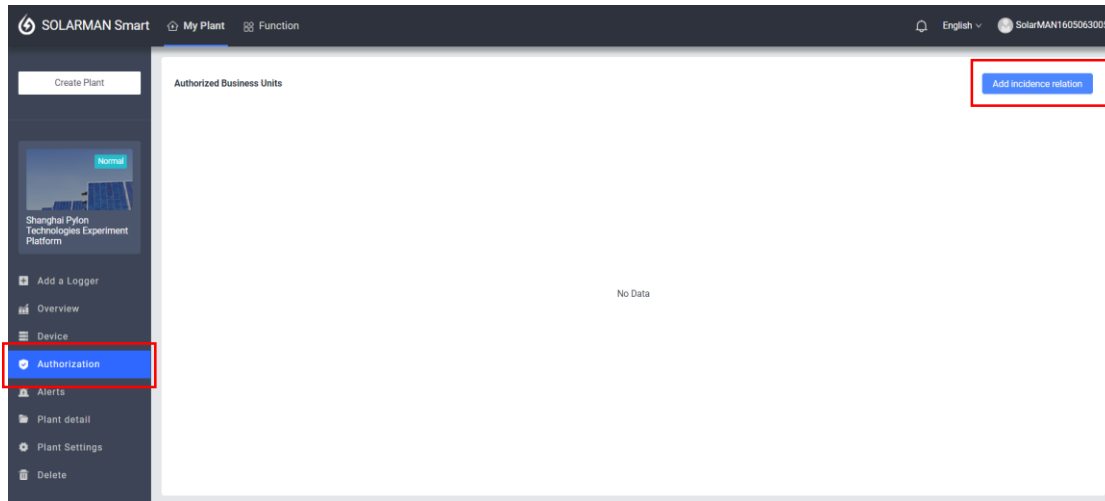
b. Definitions:

- View subsystem/sub-device: Check the subsystems or sub-devices (usually batteries and loggers) working under the system.
- View power plant alarm: Check the alarm records issued by the power station.
- View about power plant: View basic information about the power plant, including photos displayed by the business units.
- View system layout: Users can check the physical layout and electrical layout of the system.

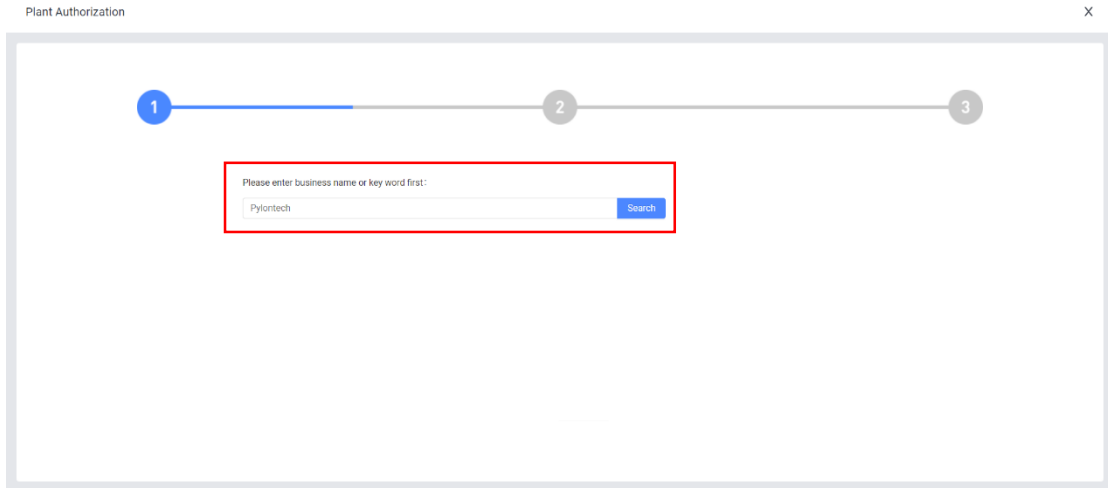
c. Authorize procedures:

Users need to search for the business unit information first, and then authorize to the business unit, the business unit can see the user registration information after authorization. After the authorization is successful, the user can also cancel the authorization, and multiple businesses can be authorized.

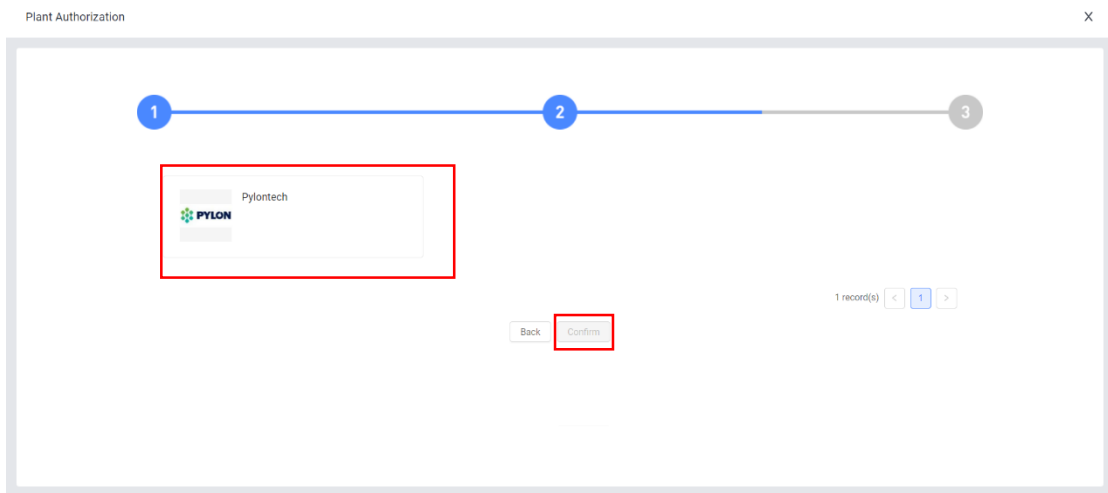
Select “Authorization” in the menu bar of the page and click “Add incidence relation”.



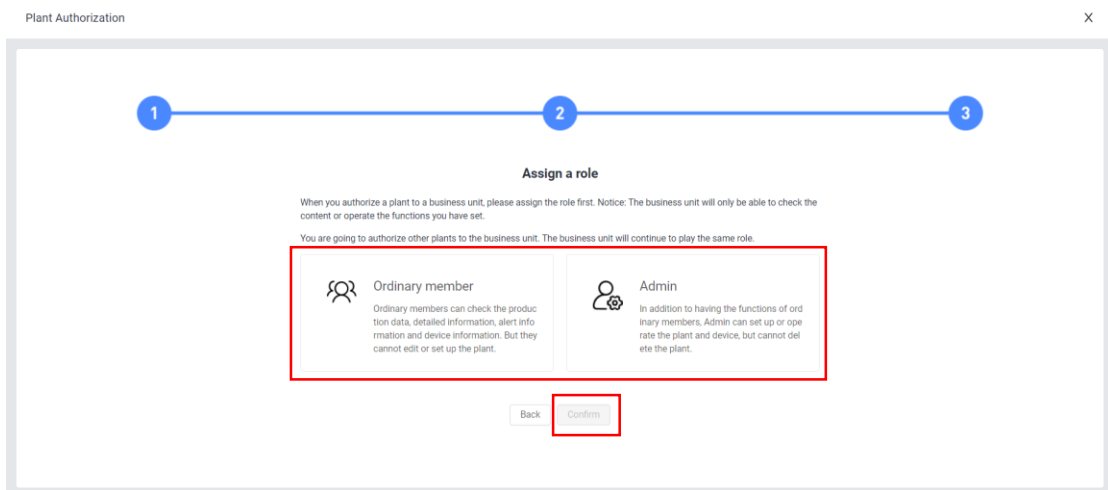
Enter business unit name and search.



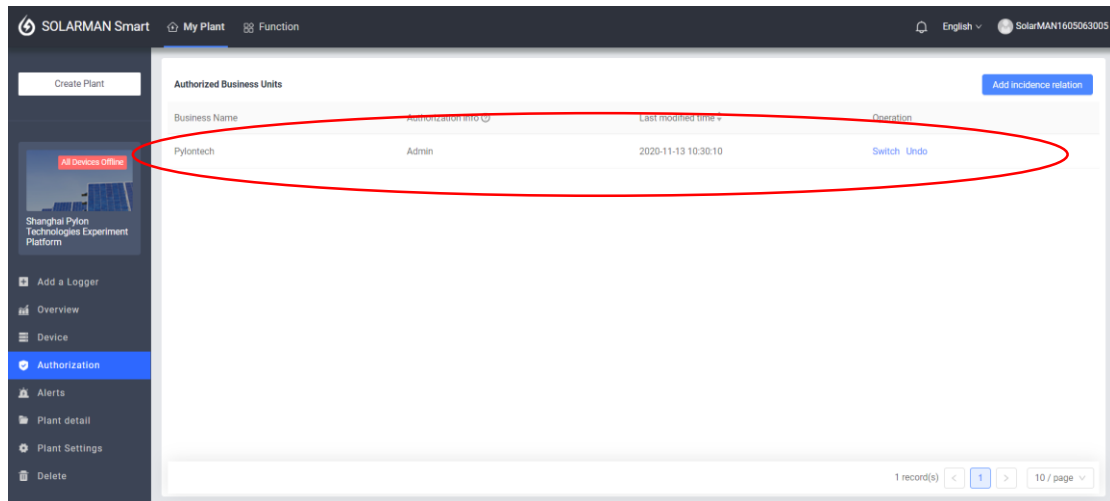
Click the authorized user and the “confirm” button will be lighted.



The user can be assigned as a new role.



The authorized business units can be viewed now.



### 3. For Mobile Device

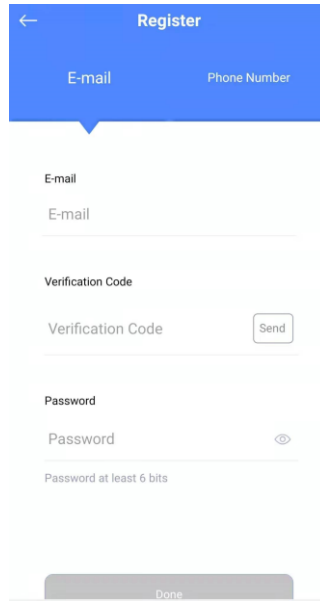
Mobile device could also be used as a way for terminal users to monitor batteries(Suitable for Android and IOS).

- a. Download 'SOLARMAN Smart' APP from App Store.



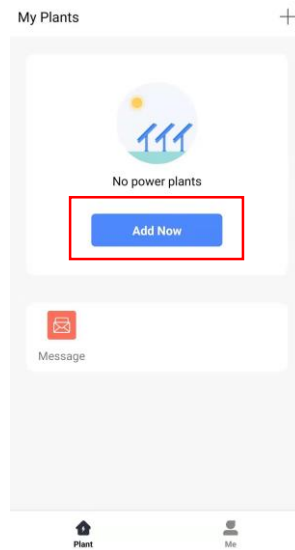
Open the application and finish the registration.  
Similar to laptop portal, it has two methods to register.





The image shows a mobile application registration screen. At the top, there is a blue header with a back arrow on the left and the word "Register" in the center. Below the header, there are two tabs: "E-mail" (which is selected) and "Phone Number". The form contains three main sections: 1. "E-mail" with a text input field. 2. "Verification Code" with a text input field and a "Send" button to its right. 3. "Password" with a text input field, a visibility toggle icon (an eye), and a note below it that says "Password at least 6 bits". At the bottom of the form is a grey "Done" button.

b. Create a new power plant.



Click "No" and "Create Now" respectively.

← **Notice**

Dear owners, do you have an installer to do O&M in the later stage?

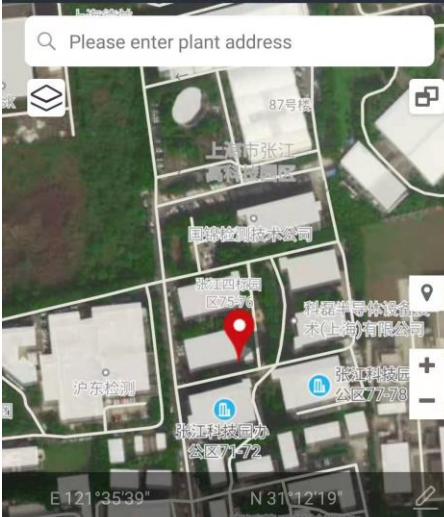
Yes  No

If your plant has no installer to do O&M in the later stage, please click "Create Now".

Select or enter the power plant address, then click "Next".

← **Confirm Plant Location**

🔍 Please enter plant address



Plant Address China, Shanghai, Shanghai Chenggu, Pudongxinqu >

🔍 Please enter plant address

Type in power plant information to complete the plant creation.

← **Plant Info**

Basic Info

Plant Name

Time Zone (UTC+08:00) Beijing,Chongqing,Hong Kong,Urumqi >

System Info

Plant Type Residential Rooftop >

System Type Please select >

Installed Capacity(kWp) Please enter

Operating Date ⓘ 2020-11-13 >

Yield Info


Currency CNY >

Unit Price(CNY/kWh) ⓘ Please enter (Optional)

Total Cost(CNY) Please enter (Optional)


Click “Go to Add” to add a logger for the plant.

**Created**



**Created**

Continue the following steps

 **Add a logger** [Go to Add](#)

Logger can collect the data of related devices in the plant,upload to platform for data analysis

If you don't know the device information for a while, this step can be skipped and you can then operate in the power station details.[Skip](#)

- c. Add a logger.  
Enter or scan the SN of the device.

← **Add a logger**

Please enter the logger SN belongs to the plant. System will calculate plant data according to the logger.

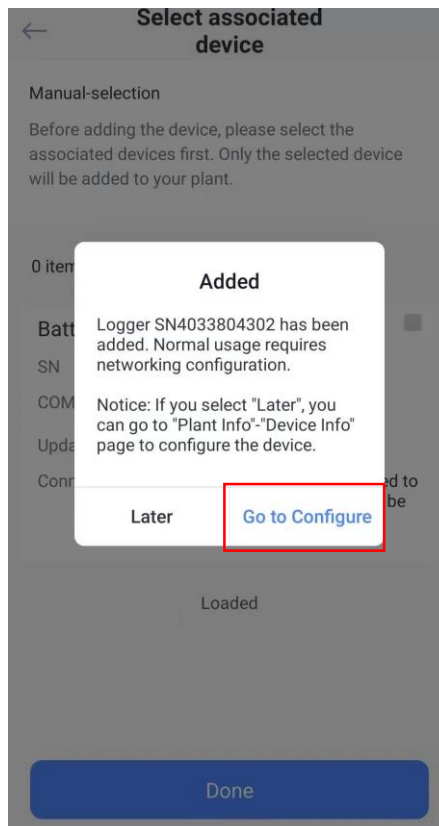
Cannot Find SN/Barcode?

Add

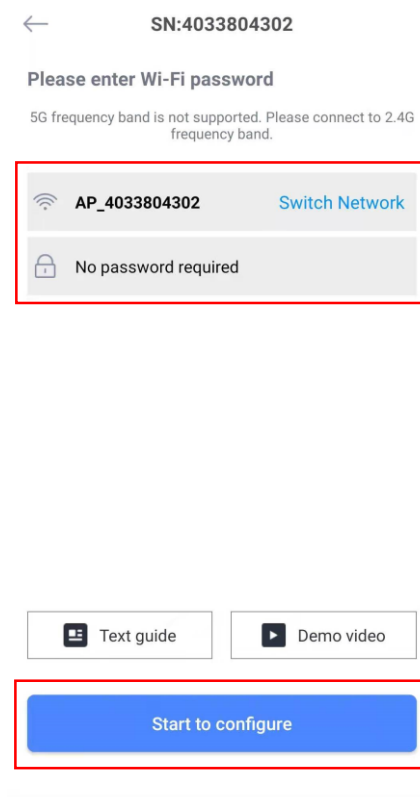
The serial number is located on the back of the box



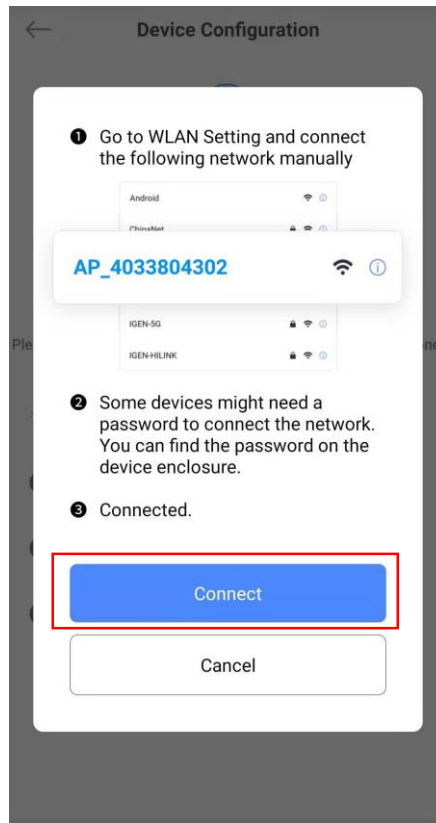
Select "Go to Configure" to start the setting.



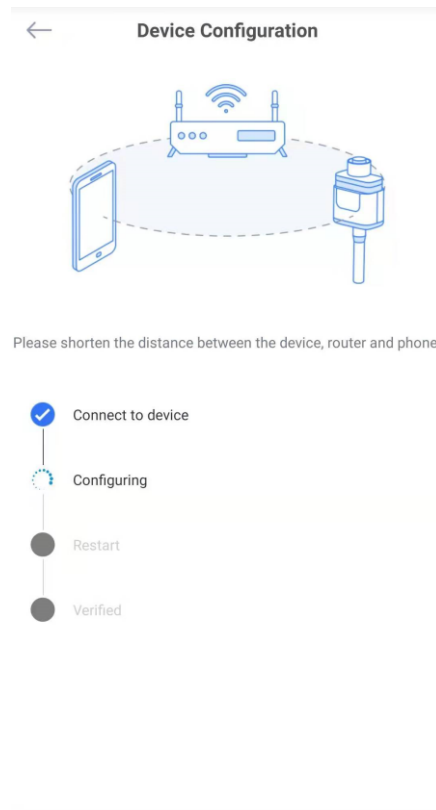
d. Connect to the Wi-Fi network.



Click "Connect" to switch the network to the device Wi-Fi network.



Device enter the status of configuration.



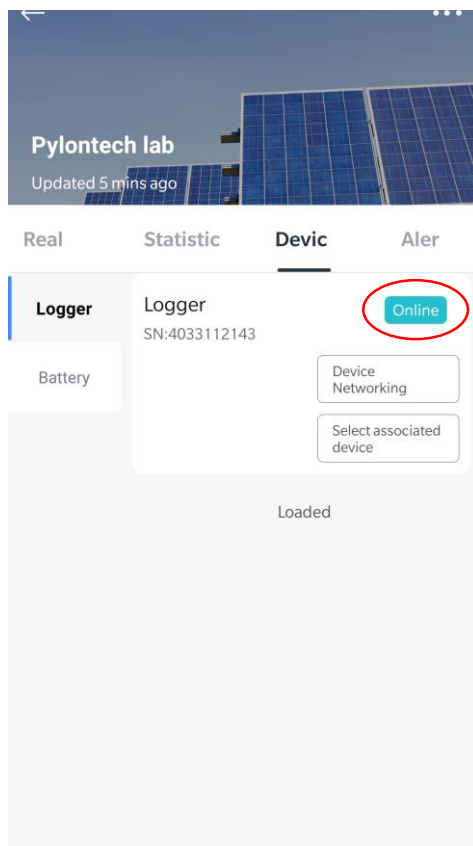


### Configuration succeeded

Device data will be displayed in 10 mins. After that, you can check device status in device list.

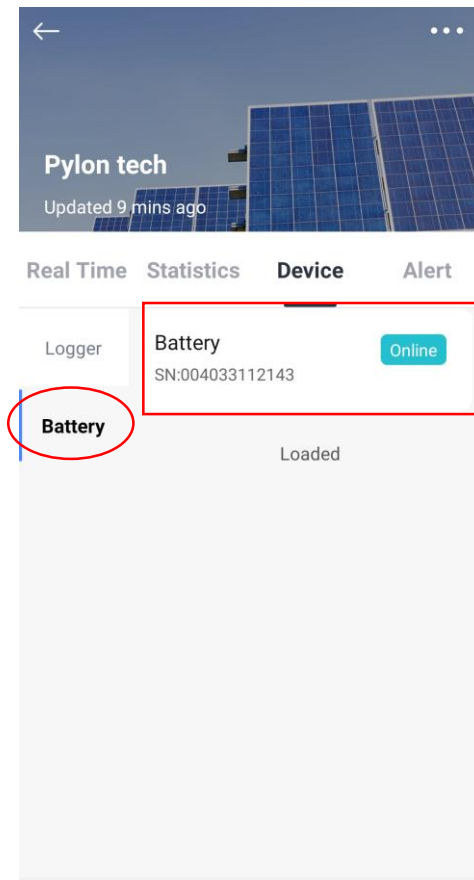
Done

When finishing the configuration, wait for 3-10 minutes, the logger could be online.



e. View the battery information.

Open the battery window, the battery information can be viewed now.





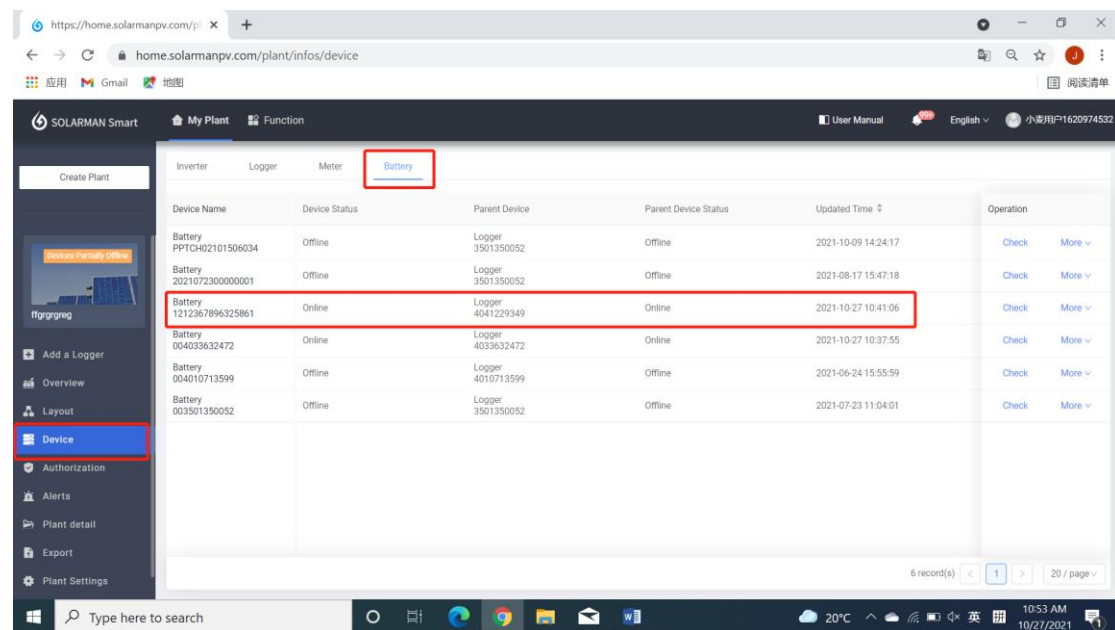
Basic Information	
Connected Device SN: 004033112143	
Battery pack	
No. of Battery Pack: 1	
Battery Pack 1	
Battery Pack 1 Connected Device Sn: 000000000000007	Battery Pack 1 Device Name: Force_L
Battery Pack 1 Brand: Pylon-----	Voltage-1: 48.64V
Current-1: -0.10A	Battery Pack 1 SOC: 15.00%
Cell voltage 1-1 Warning: 0	Cell voltage 1-2 Warning: 0
Cell voltage 1-3 Warning: 0	Cell voltage 1-4 Warning: 0
Cell voltage 1-5 Warning: 0	Cell voltage 1-6 Warning: 0
Cell voltage 1-7 Warning: 0	Cell voltage 1-8 Warning: 0
Cell voltage 1-9 Warning: 0	Cell voltage 1-10 Warning: 0
Cell voltage 1-11 Warning: 0	Cell voltage 1-12 Warning: 0
Cell voltage 1-13 Warning: 0	Cell voltage 1-14 Warning: 0
Cell voltage 1-15 Warning: 0	BMS Temperature Warning-Battery Pack 1: 0
Temperature Point 1 Warning-Battery Pack 1: 0	Temperature Point 2 Warning-Battery Pack 1: 0
Temperature Point 3 Warning-Battery Pack 1: 0	Temperature Point 4 Warning-Battery Pack 1: 0
Temperature Point 4 Warning-Battery Pack 1: 0	Battery Pack 1 Charge current Warning: 0
Battery Pack 1 Module voltage Warning: 0	Battery Pack 1 Discharge current Warning: 0
Battery Pack 1 Remain Capacity: 11.08AH	Battery Pack 1 Module Total Capacity: 73.85AH

## 4. Maintenance

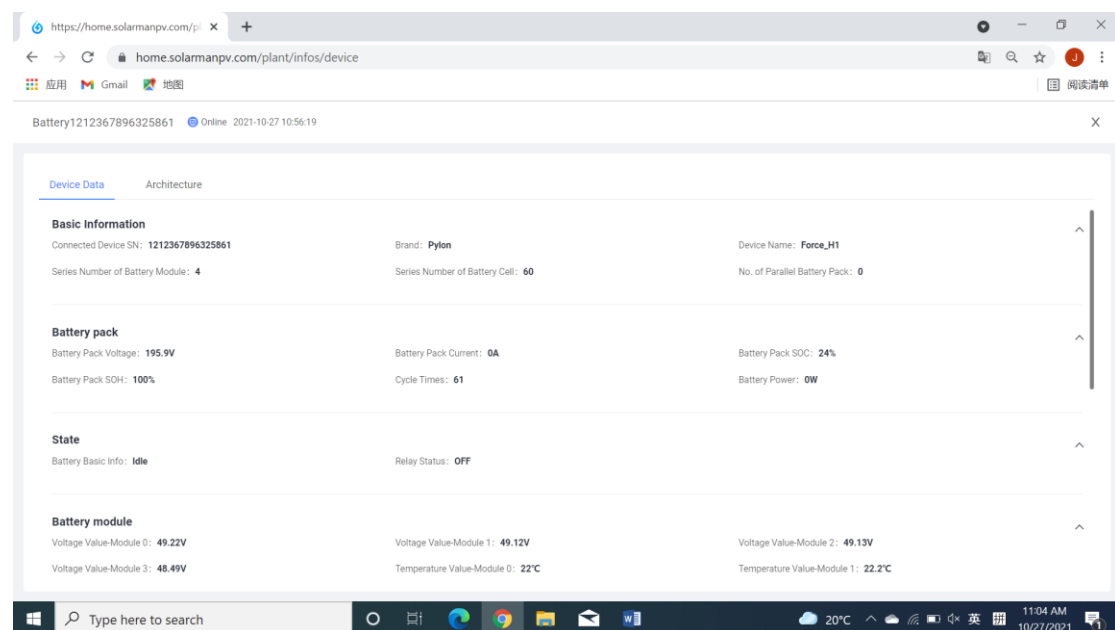
### 4.1 Download battery logs

#### Method 1:

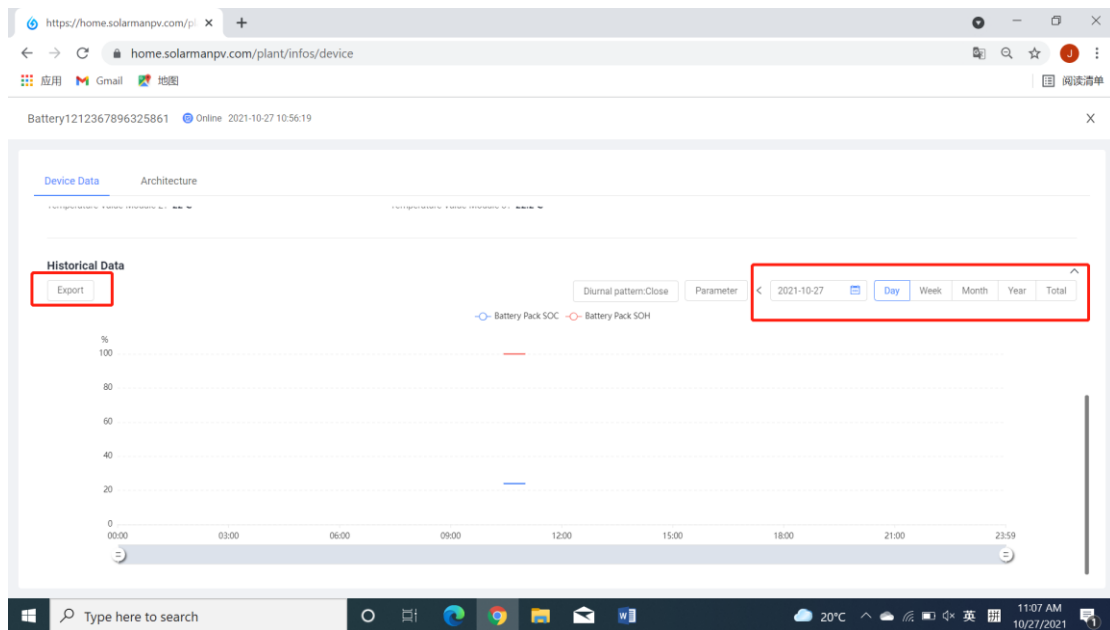
1. Go to the main window of the portal, click “Device” on the left, then choose “Battery”, select the battery you want to view.



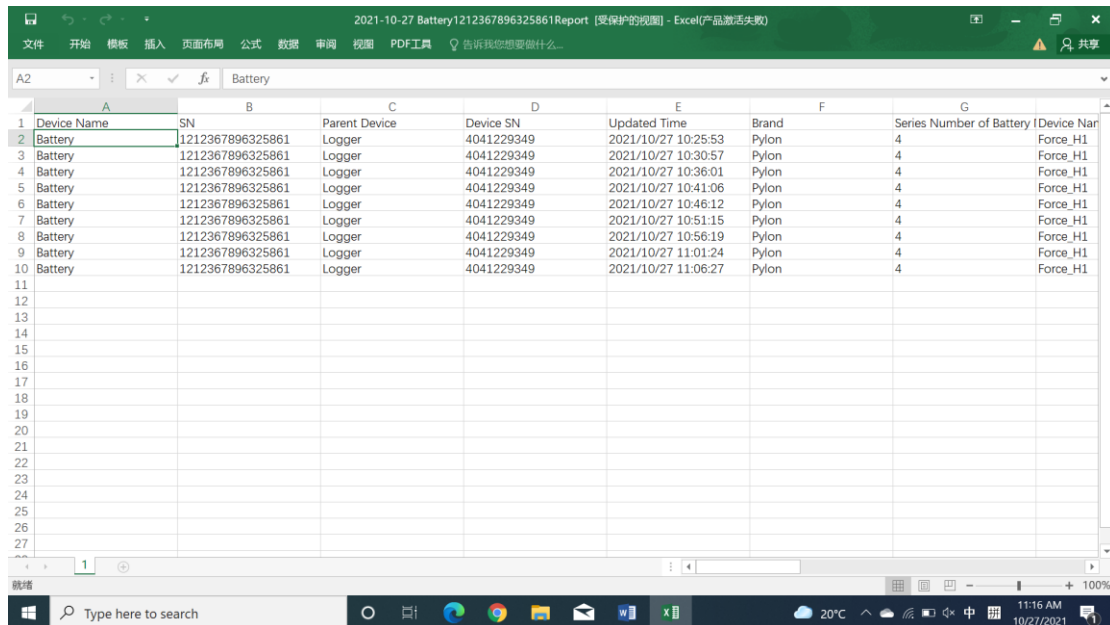
2. Drag the scroll wheel to the bottom of the page.



- You can choose the date and length of the logs, then click the “Export” to download the data. Note that you can download the logs up to one month.



The history data will be like this:

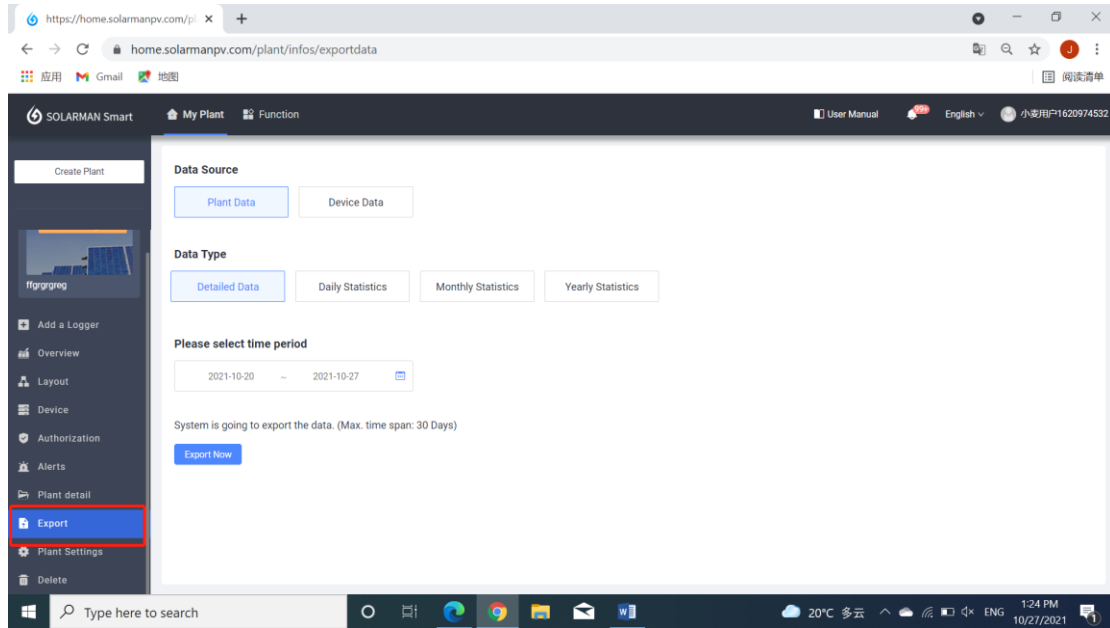


The screenshot shows an Excel spreadsheet titled '2021-10-27 Battery1212367896325861 Report [受保护的视图] - Excel(产品激活失败)'. The spreadsheet contains the following data:

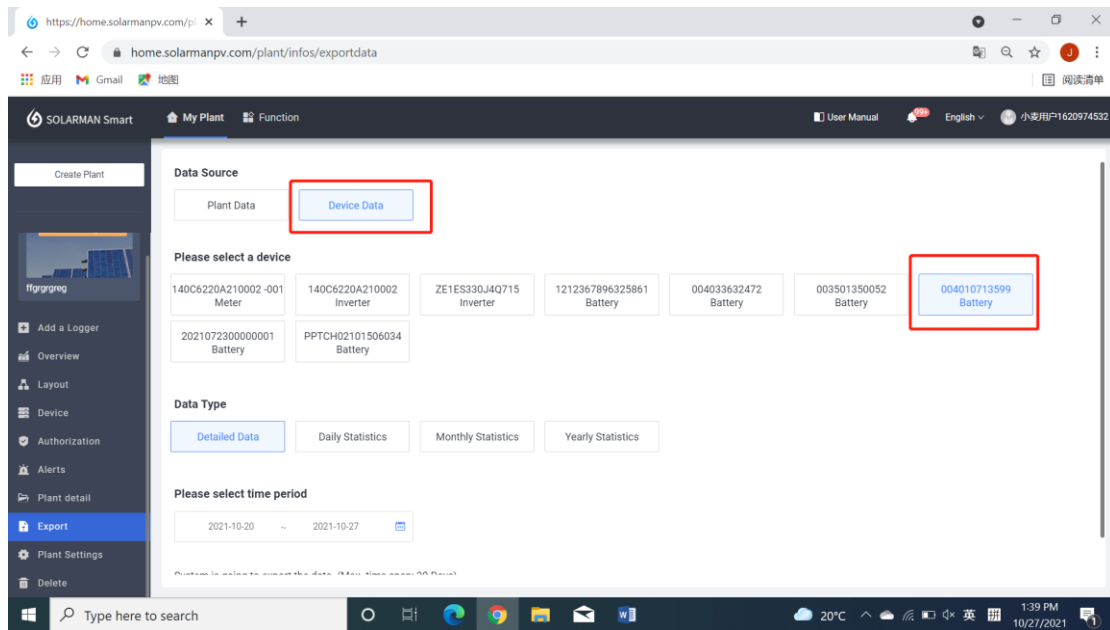
Device Name	SN	Parent Device	Device SN	Updated Time	Brand	Series Number of Battery	Device Name
Battery	1212367896325861	Logger	4041229349	2021/10/27 10:25:53	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 10:30:57	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 10:36:01	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 10:41:06	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 10:46:12	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 10:51:15	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 10:56:19	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 11:01:24	Pylon	4	Force_H1
Battery	1212367896325861	Logger	4041229349	2021/10/27 11:06:27	Pylon	4	Force_H1

## Method 2:

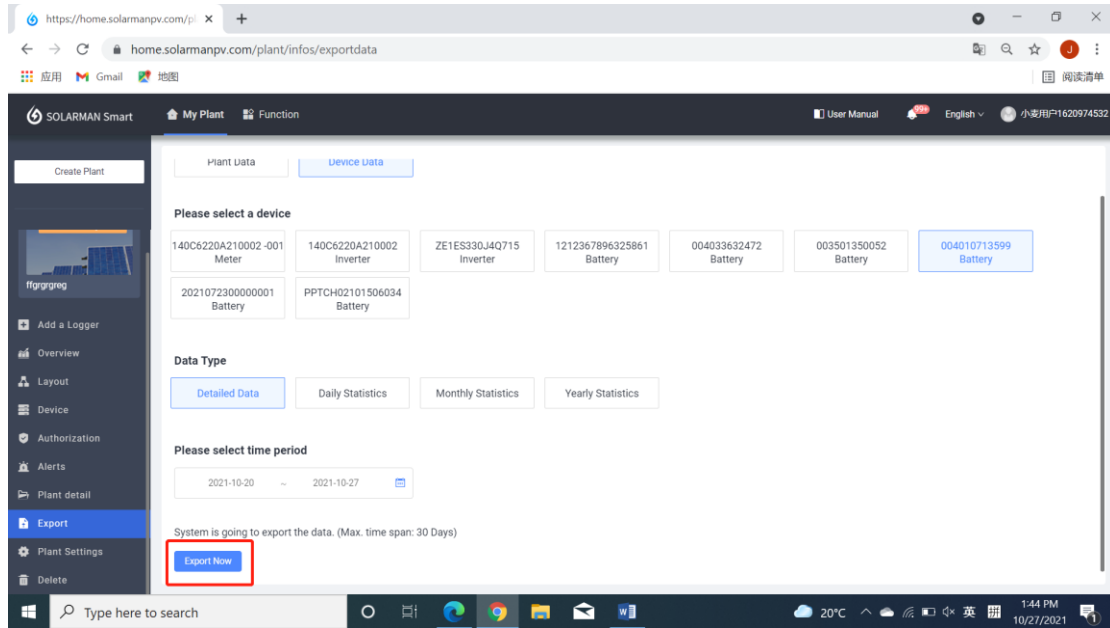
- Click “Export” on the left of the main window.



2. Select “Device Data”, choose the battery that you want to download logs, select the data type you want and choose the time period you required.



3. Click “Export Now” to download the logs.



## 4.2 Battery firmware upgrade

If you meet the problem that should be solved by firmware upgrade, please contact [service@pylontech.com.cn](mailto:service@pylontech.com.cn) and provide the serial number of your Wi-Fi logger. Pylontech will help you do an online firmware upgrade.