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iSolarCloud  
Remote Monitoring and O&M Platform  
Energy Management User Manual



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# 1 About This Manual

## 1.1 Target Group

This manual is intended for dealers, installers, and end users of residential PV plant, energy storage system, and commercial PV plant.

## 1.2 Symbol Explanation



"NOTE" indicates additional information, emphasized contents, or tips helping you solve problems or save time.

## 1.3 Expression Explanation

Type	Example
Select a certain menu or option	Select "Plant overview"
Select multiple menus or options	Select "All plants -> Plant unit"
Select a certain button	Select <b>【Confirm】</b>

## 2 Common Operation



Images in this document are for reference only, and the actual interfaces may differ.

### 2.1 User Registration

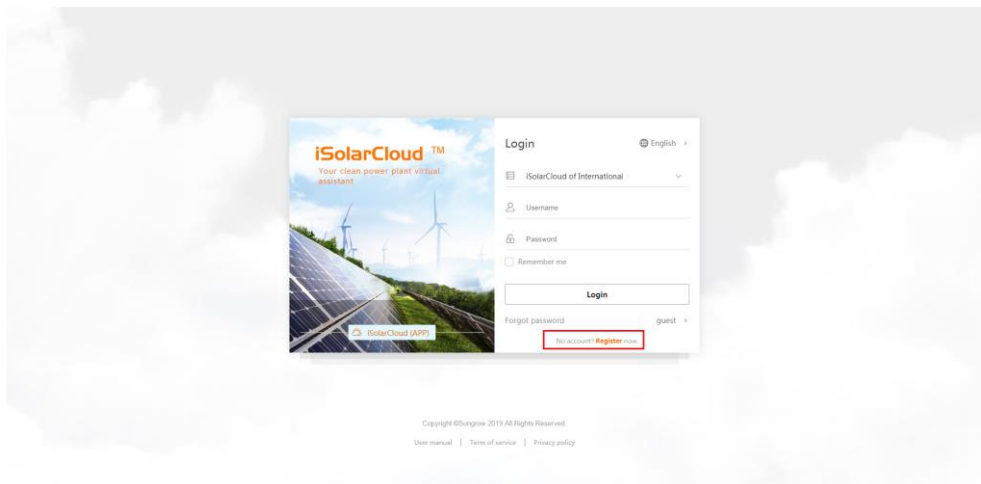
Register to get an account and a password.

The users are divided into end user and installer/retailer.

The end user can view plant information, create plants, set parameters, share plants, etc.

The installer/retailer can help the owner create plants, manage installed/maintained plants, and manage users and organizations.

**Step1** Click "Register" to enter the registration interface.



**Step2** Select the corresponding user role (end user or installer/retailer).

The screenshot shows the 'iSolarCloud™ | Register' page. The 'End user' tab is selected and highlighted with a red box. The form includes the following fields: a dropdown menu for 'iSolarCloud of International', a 'Mailbox' input field, a 'Validate code' input field with a 'Send' button, 'Password' and 'Confirm password' input fields, a 'Please select country(region)' dropdown, and a 'Select the time zone' dropdown. At the bottom, there is a radio button for 'Agree with service terms and conditions' and a 'Register' button.

The screenshot shows the 'iSolarCloud™ | Register' page. The 'Installer/Retailer' tab is selected and highlighted with a red box. The form includes the following fields: a dropdown menu for 'iSolarCloud of International', a 'Mailbox' input field, a 'Validate code' input field with a 'Send' button, 'Password' and 'Confirm password' input fields, a 'Please select country(region)' dropdown, a 'Select the time zone' dropdown, a 'Company name' input field, and a 'code of upper level installer/retailer' input field. At the bottom, there is a radio button for 'Agree with service terms and conditions' and a 'Register' button.

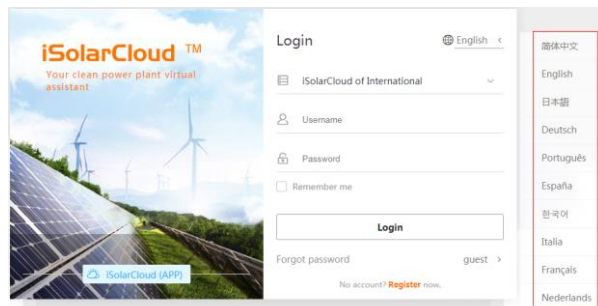


- Users in Europe and Africa should select "Europe station". Users in Europe and Africa should select "Europe station". Users in regions other than mainland China, Europe, and Africa should select "International station".
- Users whose server site is "China station" cannot register account yet.
- The installer/retailer may enter the company name or the code of upper level installer/retailer during registration. The code of upper level installer/retailer can be obtained from the superior dealer/installer. Filling in the code of the upper level installer/retailer indicates that your organization belongs to the superior installer/retailer organization.

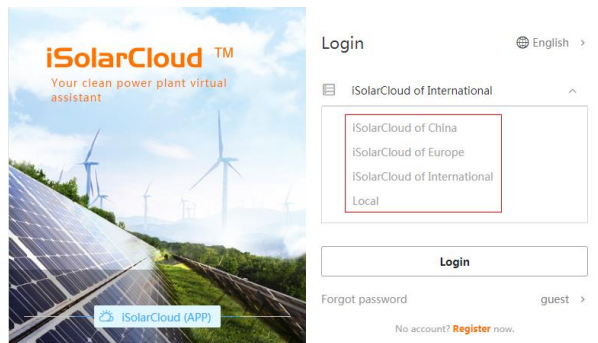
## 2.2 Login

**Step1** Enter the specific address in the address bar, for example, <https://www.isolarcloud.com> to enter the login interface.

**Step2** Select the desired language.



**Step3** The system automatically switches to the corresponding site according to user IP, or the user may manually switch to the site. Users in mainland China should select "China station". Users in Europe and Africa should select "Europe station". Users in other regions should select "International station".



**Step4** Enter the username and password in the login dialog box. Click **【Login】**.

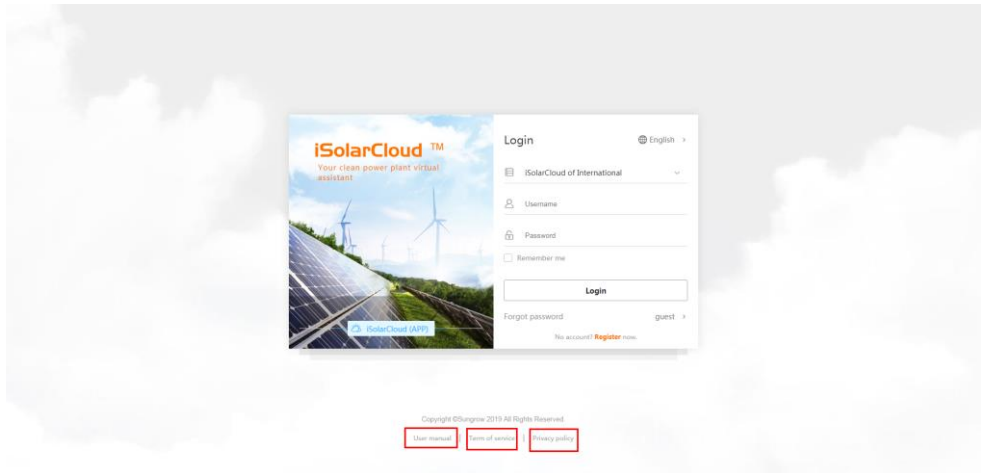


For the convenience of subsequent login, the user may select "Remember me".

☑ Login successfully

If no residential plant is bound, the prompt: "The current user has not yet bound a plant" pops up.

## 2.3 Help



Click "User manual", "Terms of service" and "Privacy policy" on the bottom of the login interface to view corresponding information.

## 2.4 Logout

Click "Logout" to exit the system.

### 3 Home

After login, the user enters the home page, as shown in the figure below.

The screenshot displays the iSolarCloud web interface. On the left is a sidebar menu with options: Home, Fault, Report, Settings, Firmware update, String IV curve scan and diagnosis, Info, Help, Account, Me, Account settings, Account and security, Background management, and Logout. The main content area features a search bar at the top with filters for Plant state, Plant type, Plant name, and Device SN. Below this is a table listing solar plants with columns for Image, Plant state, Plant name, Plant type, Power installed, Real-time power, Yield today, and Operation. The table contains several entries, including residential and distributed PV systems. At the bottom right of the table, it shows 'Total 2697' and a pagination control for 10 pages.

Image	Plant state	Plant name	Plant type	Power installed	Real-time power	Yield today	Operation
		12110926182的电站_why_bank光伏电	Residential(PV)	5.32 kWp	--	--	
		1233447	Residential(PV)	--	--	--	
		165565565455555s plant	Residential(PV)	9.29 kWp	--	--	
		1708041160的电站	Residential(PV)	5 kWp	--	--	
		20180724v的电站	Residential(PV)	200 kWp	--	--	
		20190118w的电站	Distributed PV	3 kWp	--	--	
		201912140的电站	Residential(PV)	5 kWp	--	--	
		230的电站	Distributed PV	1.5 MWp	--	--	



Permissions of the installer/retailer and the end user are different. The end user does not have permissions of device upgrading, string IV curve and diagnosis and background management.

### 3.1 Plant Sharing

Plant statePlant typePlant nameDevice SNQ Search

Image	Plant state	Plant name	Plant type	Power installed	Real-time power	Yield today	Operation
		1211092618的电站_why_bank光伏电站	Residential(PV)	1.2MWp	--	--	
		1305101738的电站_why_bank测试电站	Distributed PV	1.29GWp	--	--	
		A1810281675的电站	Residential(Storage)	5kWp	--	0kWh	

Total 310/page1Go to1

The plant list includes plants of the end user and plants shared by other end users.

#### 3.1.1 Sharing Plant

Only the end user can share plants, and the installer/retailer do not have the sharing permission but can receive shared message.

**Step1** Click the button “”, to enter the sharing interface.

Plant statePlant typePlant nameDevice

		1211092618的电站_why_bank光伏电站	Residential(PV)	1.2MWp
		1305101738的电站_why_bank测试电站	Distributed PV	1.29GWp
		17080411009的电站	Residential(PV)	5kWp

1305101738的电站\_why\_bank测试电站  
All shares

ADD Share

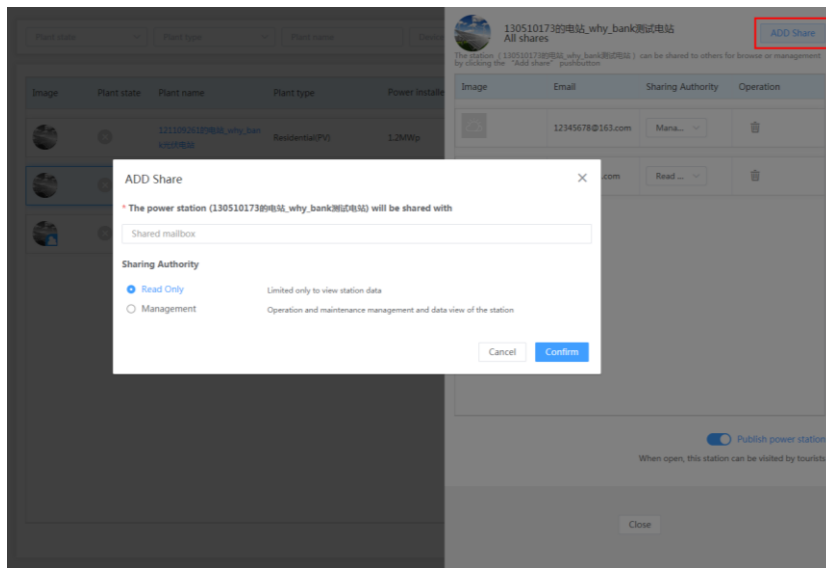
The station ( 1305101738的电站\_why\_bank测试电站 ) can be shared to others for browse or management by clicking the "Add share" publication

Image	Email	Sharing Authority	Operation
	12345678@163.com	Mana...	
	ghm_h@163.com	Read ...	

☒ Publish power station  
When open, this station can be visited by tourists

Close

**Step2** Click "ADD Share" to enter the corresponding interface.

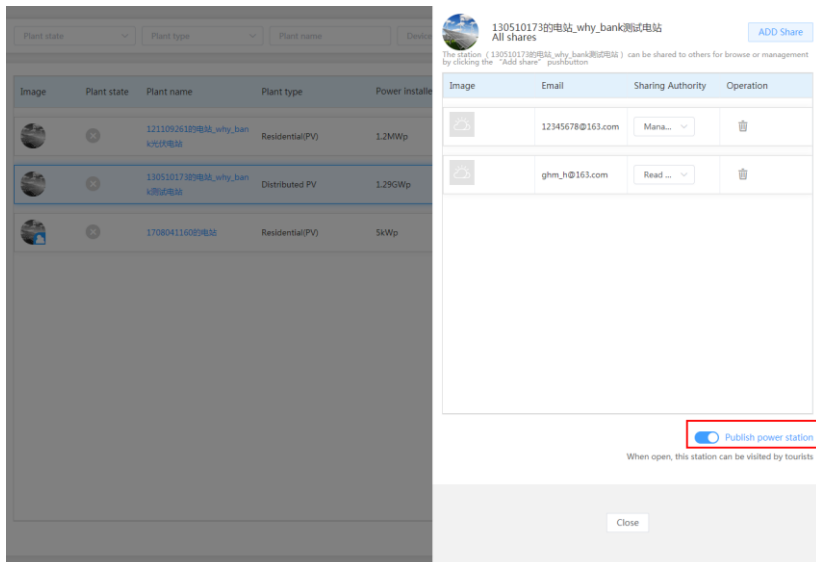


**Step3** Fill in the e-mail address and click "Confirm" to share the plant.



Plants can be shared to at most 6 users who have the management permission, but the number of users with view permission is not limited.


### 3.1.2 Publishing Plants

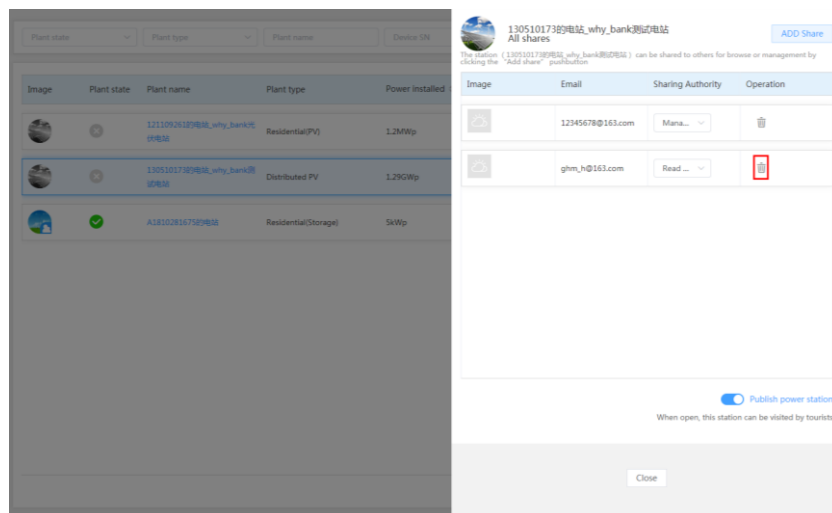


When the option "Publish power station" is turned on, plants can be shared to visitors.


### 3.1.3 Cancelling Sharing

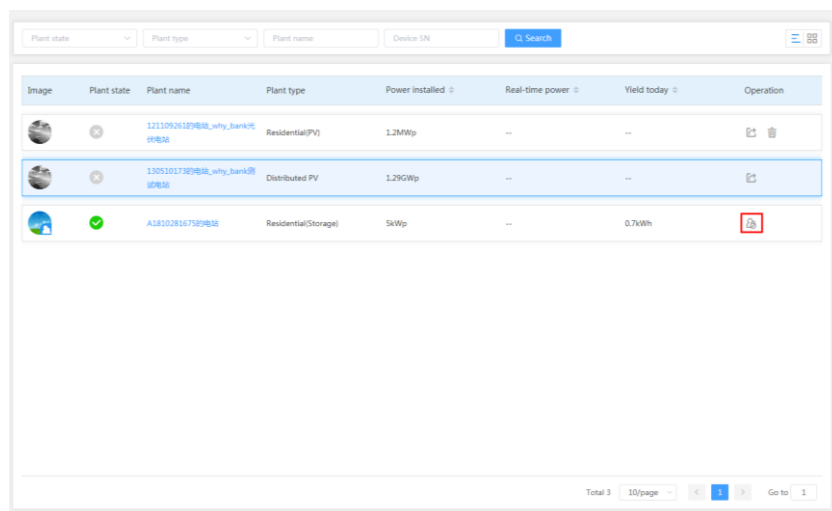
For sharer:

Click the button " " on the operation bar, to cancel the sharing of the plant.



For receiver:

Click the button " " on the operation bar to unbind the sharing relationship, after which the user cannot view or manage the plant.



## 3.2 Query Plants

Select the plant state, plant type, enter plant name, and click the button "Search", to query corresponding plants.

Plant state ▼ Residential(PV) ▼ Plant name 🔍 Search

Image	Plant state	Plant name	Plant type	Power installed <span>🔍</span>	Real-time power <span>🔍</span>	Yield today <span>🔍</span>	Operation
	+	0009992222的电站	Residential(PV)	66kW	--	--	
	+	0123856jy@y的电站	Residential(PV)	20kW	--	--	
	×	1230085308的电站_why_bark测试	Residential(PV)	123.69MW	--	--	
	×	1211092618的电站_why_bark光伏电站	Residential(PV)	1.2MW	--	--	
	+	122的电站这份喜欢 v 新会检测也成功过用跑过前 v...	Residential(PV)	2kW	--	--	
	+	12888的电站	Residential(PV)	12kW	--	--	
	+	16556556545555s plant	Residential(PV)	9.29kW	--	--	
	×	17080411608的电站	Residential(PV)	5kW	--	--	

Total 2502 10/page < 1 2 3 4 5 6 > 251 Go to 1

### 3.3 View Plant Information

Click the plant name to enter the plant information interface.

Plant state

Residential(PV)

Plant name

Search

Image	Plant state	Plant name	Plant type	Power installed	Real-time power	Yield today	Operation
	✓	A18080210578的电站	Residential(PV)	5kW	3.72kW	30.3kWh	
	✓	移动流量18060925618的电站	Residential(PV)	10kW	1.53kW	0.9kWh	
	⚠	A18061628988的电站	Residential(PV)	5kW	0W	0kWh	
	✓	A18061630878的电站	Residential(PV)	6kW	736W	0kWh	
	⚠	SG8K_A18061630708的电站	Residential(PV)	8kW	0W	0kWh	
	⚠	Y18081500378的电站	Residential(PV)	80kW	--	0kWh	
	✓	A18102812238的电站	Residential(PV)	5kW	--	0kWh	
	⚠	B18111915168的电站	Residential(PV)	5kW	--	0kWh	

Total 2502

10/page

1

2

3

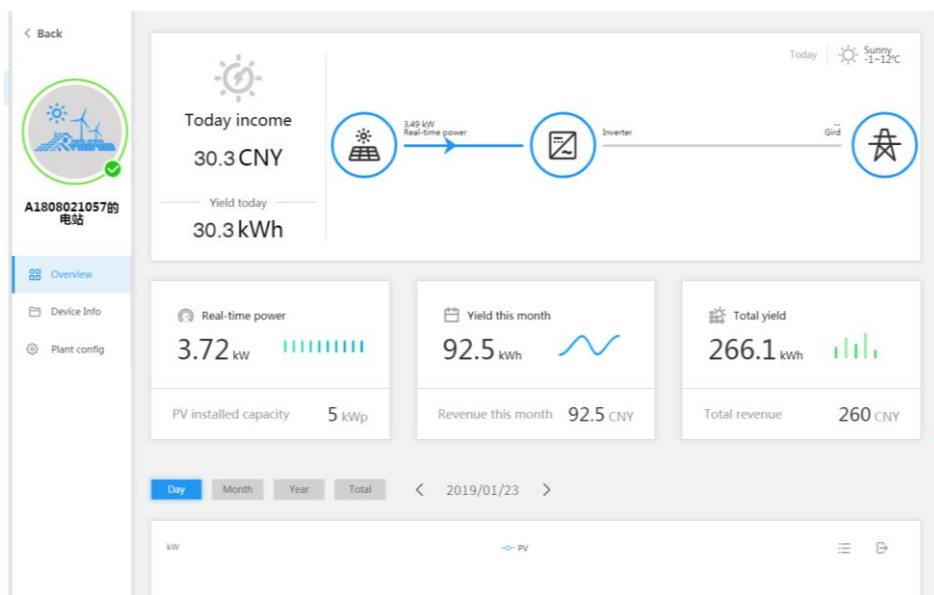
4

5

6

251

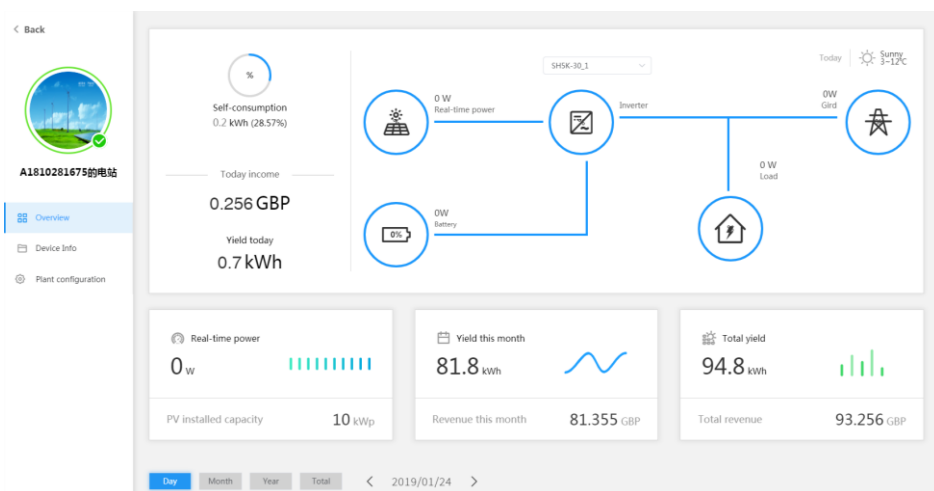
Go to 1



### 3.3.1 Overview



Description is given by using residential energy storage plant as an example.

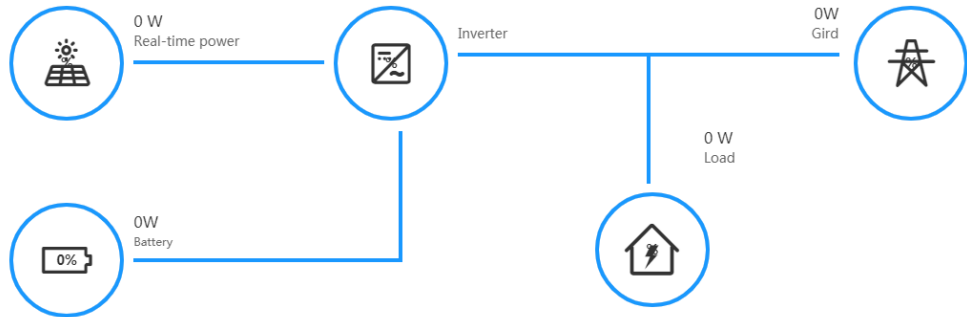


On the "overview" interface, users can perform the following operations:

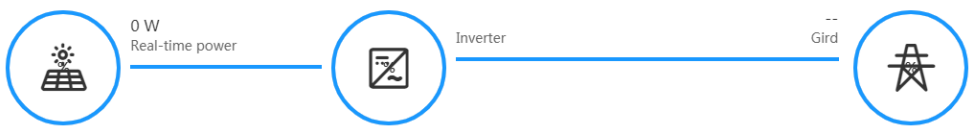
- View basic plant information, including today income, real-time power, yield in this month, total yield, CO<sub>2</sub> reduction, etc.
- View tidal current diagram, including information such as real-time power, feed-in power, load power, battery charging/discharging information, etc.

The energy storage system and PV system have different tidal current diagrams.

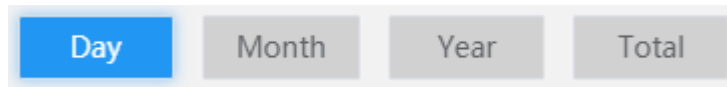
The tidal current diagram of the energy storage system is as follows:



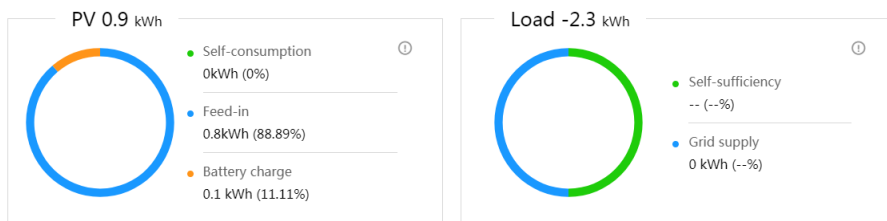
The tidal current diagram of the PV system is as follows:



- 1、 The line with an arrow indicates energy flow between connected devices, and the arrow pointing indicates energy flow direction
  - 2、 Gray line indicates that the connected devices are off-line.
- View and export plant data. The data can be viewed or exported based on "Day", "Month", "Year", and "Total".



Parameters on the PV side and load side can be viewed.



Select a time segment and click " " in the upper right corner of the chart, to export the chart.

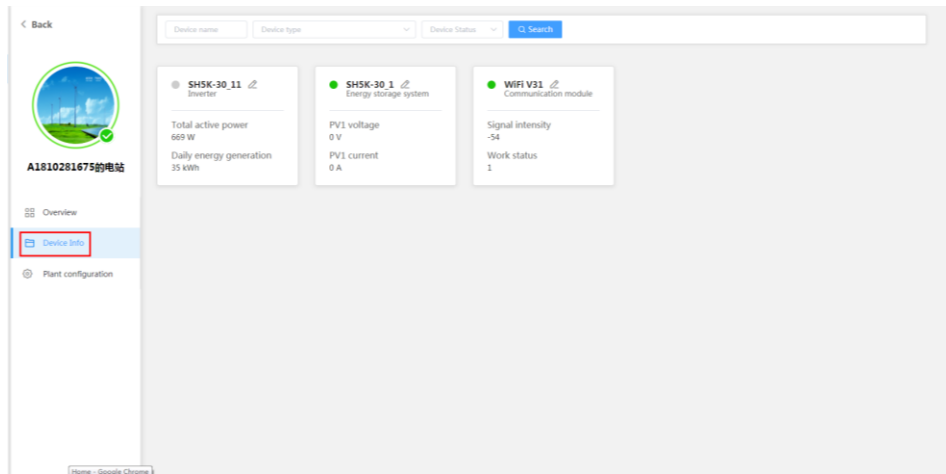
Click " " to change the curve form into the table form.

- View plant running status, including "Normal" (green checkmark icon), "Fault" (red exclamation mark icon), "Offline" (gray X icon), and "Connecting"

### 3.3.2 Device Information

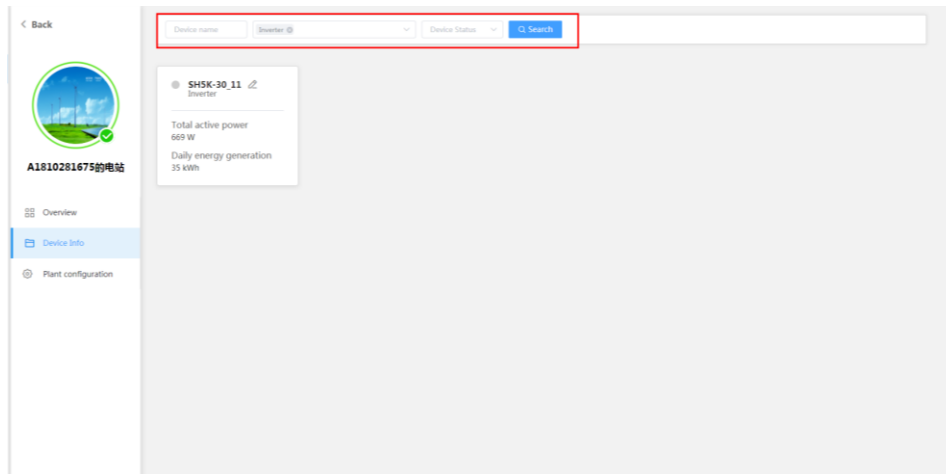
Click "Device Info" to enter the device information interface. Users can view device basic

information and alarm information.



### Search device

Enter the device name, select the device type and device status, and click "Search".



### View basic device information

Click the device name to view basic device information, device alarm (closed), device alarm (open), and chart information.

- View basic device information


Click the device name, select "Device Basic Info" to view the measuring point information and device information, or restore faults.

**SH5K\_1**

Plant name: A1810040424    Device space: A1810040424    Device model: SH5K-20

Device Basic Info		Device alarm(open)		Device alarm(closed)		Chart	
Measuring point parameter							
Data update time: 2019-01-22 14:40							
Daily amount of electricity taken from grid	0 kWh	Total amount of electricity taken from grid	1.058 MWh	P-energy get from grid	0 W	Parallel ground impedance	0 kΩ
Bus voltage	0 V	Derating type	0	MDSP off-grid start up state	2	SDGP working mode	10
SDGP off-grid start state	2	DI status	6	Battery voltage (BMS)	5.796 V	Battery SOC (BMS)	99 %
EMS status	3	PV daily feed-in power	0.8 kWh	Daily direct energy consumption	0 kWh	PV day battery charge	0.1 kWh
Annual direct energy consumption	-- kWh	PV total feed-in power	151.9 kWh	Total direct energy consumption	44.7 kWh	Total PV battery charge	26.8 kWh
PV information							
PV1 voltage	402.3 V	PV1 current	2.2 A	PV2 voltage	0 V	PV2 current	0 A
PV total power	924 W	Daily PV power generation	0.9 kWh	Total PV energy generation	223.4 kWh		
Battery information							
Battery voltage	58.7 V	Battery current	0 A	Battery charging power	0 W	Battery discharging power	0 W
Battery capacity	98.8 %	Battery SOH	100 %	Battery temperature	17 °C	Max. charging current (BMS)	32 A
Max. discharging current (BMS)	80 A	Daily battery discharging energy	0 kWh	Daily battery charging energy	0.3 kWh	Total battery discharging capacity	26.8 kWh
Total battery charging capacity	46.9 kWh						

[Repair](#)

Click the button " " to view history information.

Select the start time, end time, and time interval, and then click the button "Search".



Click " " to change the graph into report. Click "Save table data" to export data.


**SH5K-30\_11** ✕

**Daily energy generation** ✕

time frame:  1day Q Search

A181028167589BA0 2019-01-01to2019-01-24Report Save table data

Time	Daily energy generation(kWh)
2019-01-14	--
2019-01-15	--
2019-01-16	--
2019-01-17	40.10
2019-01-18	35.00
2019-01-19	0.00
2019-01-20	--
2019-01-21	--
2019-01-22	--
2019-01-23	--
2019-01-24	--

Click " " in the upper right corner of the interface to refresh the interface.

- Repair

Click "Repair" to enter the corresponding interface.

**Repair** ✕

Plant name: A1810040424      Device type: Energy storage system

\* Fault name:       \* Fault device:

\* Fault type:       \* Fault level:

\* Source:       \* Processing time:

Fault details:

Fault picture: click to choose pictures

Repair Cancel

### Device alarm (open) information interface

Select the time range, fault name, alarm level, and alarm processing state, and click the button "Search" to view corresponding information.

**SH5K\_1** ✕

Plant name: A1810040424      Device space: A1810040424      Device model: SH5K-20

Device Basic Info    **Device alarm(open)**    Device alarm(closed)    Chart

time frame:       Fault name:  Q Search

Alarm level: ☒ Important    ☒ Secondary    ☒ General

Alarm processing state: ☒ Unconfirm    ☒ Pending    ☒ Processing    ☒ Settled

Device name	Fault type	Fault level	State	Fault name	Reporter	Occurrence time
No Data						

### View device alarm (close) information

Select time range, fault name, and alarm level, and then click the button "Search".

SHSK-1

Plant name: A1810040424    Device space: A1810040424    Device model: SHSK-20

Device Basic Info

Device alarm(open)

Device alarm(closed)

Chart

Time frame:

2019-01

Search

Fault name:

Alarm level:

Important

Secondary

General

Device name	Fault type	Fault level	State	Fault name	Reporter	Occurrence time
SHSK_1	Fault	General	Closed	BMS com abn	system	2019-01-21 23:22:28
SHSK_1	Fault	General	Closed	10 minutes grid overvoltage	王文忠2	2019-01-21 08:48:07
SHSK_1	Fault	General	Closed	10 minutes grid overvoltage	王文忠2	2019-01-21 08:45:31
SHSK_1	Fault	General	Closed	Battery average undervoltage fault	system	2019-01-20 23:48:12
SHSK_1	Fault	General	Closed	Off-grid BOX box DI fault	system	2019-01-20 23:27:41
SHSK_1	Fault	General	Closed	Islanding	system	2019-01-20 23:27:35
SHSK_1	Fault	General	Closed	Phase A I sampling chain ft	王文忠2	2019-01-18 14:37:54
SHSK_1	Fault	General	Closed	Comm exception	王文忠2	2019-01-18 09:21:04
SHSK_1	Fault	General	Closed	10 minutes grid overvoltage	王文忠2	2019-01-17 09:03:18
SHSK_1	Fault	General	Closed	Islanding	system	2019-01-16 15:02:41

### View the Chart

Select a time range and refresh interval to view corresponding curve, and click "↓" to download the curve.



### 3.3.3 Plant Configuration

#### Plant Configuration

Click "Plant configuration"-> "Plant configuration" to enter the corresponding interface.

Basic information such as plant name, power installed, and plant grid-connection type can be configured.

**Plant configuration**


**Plant name**

**Owner's email**

**Power installed**  
 kWp [Setting](#)  
Participate in the calculation of parameters, Please modify it with caution

**Plant type**

**Grid-connection type**

**Location**  



**Time zone**

**Create time**

**Grid-connection time**

**Station delivery address** ⓘ

**Station delivery zip** ⓘ

**Distribution/Installer organization** ⓘ  
code  


**Installer/Retailer**      **Contact info of installer**  
1998888888

[Save](#)

### Installer/retailer organization cod

#### End user

- The end user can fill in the dealer/installer organization code to appoint the corresponding installer/retailer to manage the plant. The organization code can be obtained from the installer/retailer.
- The end user can change the organization code to appoint another installer/retailer to manage the plant.

#### Installer/retailer

- The installer/retailer can change the organization code to manage another plant, after which the installer/retailer cannot not manage the previous plant.

## Electricity price configuration

Click "Plant configuration"-> "Electricity price configuration" to enter the corresponding interface.

Users may set the power price value or turn on the option "TOU power price"

- Set electricity price

Electricity price configuration

Charge unit  
GBP /kWh

Power price  
0.365

☐ TOU power price

Save

- Set TOU power price

Electricity price configuration

Charge unit  
GBP /kWh

Power price  
0.365

☒ TOU power price

Time interval

Start time	End time	Price	Operation
18:46	18:47	2.3	
19:46	20:48	2.36	

Price in other time period  
0.365

Save

## Fault alarm push mode

Click "Plant configuration"-> "Fault alarm push mode" to enter the corresponding interface.

Users can set the fault notification method on this interface.

Fault alarm push mode

Owner's email

☒ Reception mailbox push

(There is no email information, you can add email information in the basic information of the account ! )

Save

## 4 Fault List

Click "Fault Alarm" to enter the fault list interface and view the plant alarm information.


The screenshot displays the 'Fault List' interface. On the left is a sidebar with a list of plant names. The main area features a search bar, filters for 'Alarm type' (Fault, Alarm, Prompt, Advice) and 'Alarm level' (Important, Secondary, General), and a table of alarm data. The table includes columns for Plant name, Alarm type, Alarm level, Alarm name, Device name, Occurrence time, and Operation. Below the table is a pagination bar showing 'Total 628' and '10/page'.

Plant name	Alarm type	Alarm level	Alarm name	Device name	Occurrence time	Operation
B18072506318的电站	Alarm	General	PV2 reverse connection fault	SG8K-D_1	2019-01-25 14:33:33	
A1810281637的电站	Fault	General	Grid V-under	SG5K-D_1	2019-01-25 14:23:37	
A1805062408的电站(摩迪)	Fault	General	PV1 overcurrent	SG5K-D-V36_1	2019-01-25 13:21:00	
A1805062678的电站	Fault	Important	Islanding	SG8K-D_1	2019-01-25 09:19:00	
HBV1802060125的电站	Fault	Important	Islanding	SG12KTL-M_5	2019-01-24 18:42:46	
SG8K_A1806163070的电站	Fault	Important	Islanding	GG8K-D_1	2019-01-24 17:19:20	
1708041180的电站	Fault	General	10 minutes grid overvoltage	GG8K-D_1	2019-01-24 16:13:57	
A1801801838的电站	Fault	General	10 minutes grid overvoltage	SG12KTL-M_2	2019-01-24 16:06:51	
Y1808150037的电站	Fault	Important	Network side protection self-test failed	SG50KTL_1	2019-01-24 01:04:04	
A1612150037大机接入1250UD	Alarm	Important	PTD function abnormality	SG1250UD-1	2019-01-22 20:11:27	

Faults, alarms, and advice not closed within one year can be viewed by default.

Click on the upper right corner to refresh the interface according to the selected time interval. Click to refresh the interface.

### 4.1 View Fault Information

Click the button " " on the operation bar, to enter the fault detail interface and view detailed fault information.

**Fault detail**

Fault info			
Device type :	Inverter	Alarm name :	PV2 reverse connection fault
Fault device :	SG8K-D_1	Device model :	SG8K-D
Fault type :	Alarm	Fault level :	General
Source :	System note	Processing time :	
Fault details :			
Processing opinion :			
Repair advice			
Step 1			
Reverse connection of PV2 positive/negative poles or not			
Step 2			
No			

Close fault

## 4.2 Query Fault

Select a time segment, enter the alarm name, and click "Search" to view the corresponding fault, alarm, and advice information.

Input plant name    Refresh time 5 min

Time 2018-01-25 - 2019-01-25 Alarm name alarm

Alarm type ☒ Fault ☒ Alarm ☐ Prompt ☒ Advice  
 Alarm level ☒ Important ☒ Secondary ☒ General

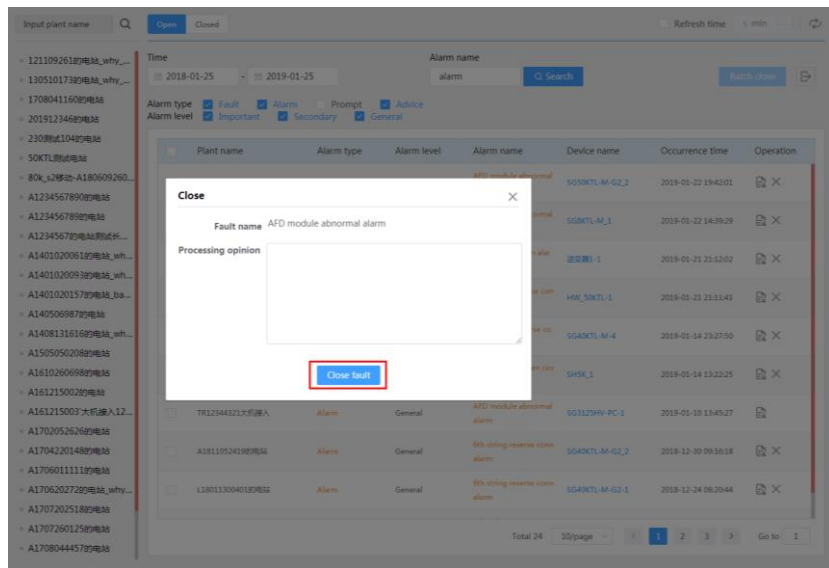
Plant name	Alarm type	Alarm level	Alarm name	Device name	Occurrence time	Operation
王城岗电站的电站	Alarm	General	AFD module abnormal alarm	SG50KTL-M-G2_2	2019-01-22 19:42:01	<input type="button" value="Print"/> <input type="button" value="Close"/>
A1802080082的电站	Alarm	General	AFD module abnormal alarm	SG8KTL-M_1	2019-01-22 14:39:29	<input type="button" value="Print"/> <input type="button" value="Close"/>
1305101738的电站_why_unk... 设电站	Alarm	General	2nd combing abn alarm	逆变器1-1	2019-03-23 21:12:02	<input type="button" value="Print"/> <input type="button" value="Close"/>
230测成1048的电站	Alarm	General	18th string reverse connection alarm	HW_50KTL-1	2019-05-23 21:13:41	<input type="button" value="Print"/> <input type="button" value="Close"/>
T2018114618的电站	Alarm	General	32nd string reverse connection alarm	SG40KTL-M-4	2019-01-14 23:27:50	<input type="button" value="Print"/> <input type="button" value="Close"/>
A1801058888的电站	Alarm	General	BDC-T sensor open circuit alarm	SH9K_1	2019-05-14 13:22:25	<input type="button" value="Print"/> <input type="button" value="Close"/>
7812344321大机输入	Alarm	General	AFD module abnormal alarm	SG3125HV-PC-1	2019-01-10 13:45:27	<input type="button" value="Print"/> <input type="button" value="Close"/>
A18110524198的电站	Alarm	General	6th string reverse connection alarm	SG40KTL-M-G2_2	2018-12-30 09:16:18	<input type="button" value="Print"/> <input type="button" value="Close"/>
L18011300401的电站	Alarm	General	6th string reverse connection alarm	SG40KTL-M-G2-1	2018-12-24 08:20:44	<input type="button" value="Print"/> <input type="button" value="Close"/>

Total 24 30/page    Go to 1

## 4.3 Close the Fault

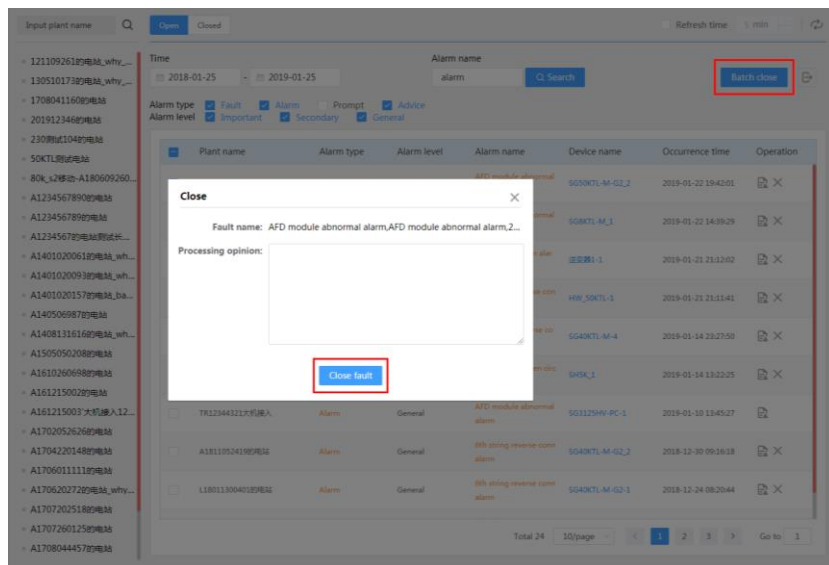
### 4.3.1 Close Single Fault

Click the button  on the operation bar, to enter the close interface. Fill in the processing opinion and then click the button "Close fault".




### 4.3.2 Close Faults in Batch

Click "Batch close" to enter the fault close interface. Fill in the processing opinion and then click the button "Close fault".



### 4.4 Export Fault

Select a fault, and click the button  to export the fault information.

Input plant name     5 min

Time  -  Alarm name

Alarm type ☒ Fault ☒ Alarm ☐ Prompt ☒ Advice  
 Alarm level ☒ Important ☒ Secondary ☒ General

<input type="checkbox"/>	Plant name	Alarm type	Alarm level	Alarm name	Device name	Occurrence time	Operation
<input type="checkbox"/>	A1801058888的电站	Alarm	General	BOC T sensor open circuit alarm	SH9K_1	2019-01-14 13:22:25	<input type="button" value="Print"/> <input type="button" value="Close"/>
<input type="checkbox"/>	TK12344321大机进入	Alarm	General	APD module abnormal alarm	SG11254V-PC-1	2019-01-10 13:45:27	<input type="button" value="Print"/>
<input type="checkbox"/>	A18110524198的电站	Alarm	General	6th string reverse connection alarm	SG40KTL-M-G2_2	2018-12-30 09:16:18	<input type="button" value="Print"/> <input type="button" value="Close"/>
<input type="checkbox"/>	L180113004018的电站	Alarm	General	6th string reverse connection alarm	SG40KTL-M-G2-1	2018-12-24 08:20:44	<input type="button" value="Print"/> <input type="button" value="Close"/>
<input type="checkbox"/>	A18082816538的电站	Alarm	General	6th string reverse connection alarm	SG40KTL-M-G2_2	2018-12-15 11:04:10	<input type="button" value="Print"/> <input type="button" value="Close"/>
<input type="checkbox"/>	A1801058888的电站	Alarm	General	Ambient temperature sensor open circuit alarm	SH9K_1	2018-12-13 11:52:07	<input type="button" value="Print"/> <input type="button" value="Close"/>
<input type="checkbox"/>	A161215003大机进入12...	Alarm	General	Ambient low temperature sensor open circuit alarm	SH9K_1	2018-12-13 11:52:07	<input type="button" value="Print"/> <input type="button" value="Close"/>
<input type="checkbox"/>	A1801058888的电站	Alarm	General	Inversion T sensor open circuit alarm	SH9K_1	2018-12-13 11:51:17	<input type="button" value="Print"/> <input type="button" value="Close"/>
<input type="checkbox"/>	CGSR A1813561001000002	Alarm	General	27th string reverse connection alarm	CGSR-n_1	2018-11-28 08:45:00	<input type="button" value="Print"/> <input type="button" value="Close"/>

Total 19     1

## 5 Parameter Setting

Click "Setting" to enter the parameter setting interface.

**Settings**

Input plant name  Search

Inverter model	Country(region)	Grid type	Version no.
All	All	All	All

[Command-line parameters setup](#)
[Initial grid connection](#)
[Settings](#)
[History task](#)

#	Plant name	Device name	Device SN	Inverter model	Country(region)	Grid type	Version no.	Device space	Operation
<input type="checkbox"/>	1211092618的电站_why_英_why_bank光伏站	逆变器-1		S0SKTL-M	--			1211092618的英_why_bank光伏站	<a href="#">🔍</a>
<input type="checkbox"/>	1305101738的电站_why_bank测试站			S0L2KTL	--			Grid-connected point_1_Unit	<a href="#">🔍</a>
<input type="checkbox"/>	14010200613的电站_w... 14010200933的电站_w...	逆变器-1		S0L2KTL					
<input type="checkbox"/>	140100120157的电站_b... 1405069878的电站_b...		A12345678901 23456789	S0SKTL-D	Australia	50Hz	V21-MDSP_Crystal-V21_V17	17080411608的电站	<a href="#">🔍</a>
<input type="checkbox"/>	20191234468的电站	SG110HV-M-1		SG110HV-M		--		20191234468的电站	<a href="#">🔍</a>
<input type="checkbox"/>	2301040104的电站	HWV_S0KTL-28			United Kingdom	50Hz		并网点_单元1	<a href="#">🔍</a>
<input type="checkbox"/>	2301080104的电站	HWV_S0KTL-27			United Kingdom	50Hz		并网点_单元1	<a href="#">🔍</a>
<input type="checkbox"/>	2301080104的电站	HWV_S0KTL-30			United Kingdom	50Hz		并网点_单元1	<a href="#">🔍</a>
<input type="checkbox"/>	2301080104的电站	HWV_S0KTL-29			United Kingdom	50Hz		并网点_单元1	<a href="#">🔍</a>
<input type="checkbox"/>	14708044457的电站								

Total 2089    10/page    < 1 2 3 4 5 6 --> 209 >    Go to 1

## 5.1 Query Device

Select inverter model, country (region), grid type, and version No., and then click "Search" to search corresponding device.

Input plant name

Q

Settings

121109261的电站\_why...

130510173的电站\_why...

1708041160的电站

201912346的电站

230802104的电站

50KTL测试电站

80k\_2移动-A1806092...

A1234567890的电站

A1234567890的电站

A1234567890的电站测试...

A3401020061的电站\_why...

A3401020093的电站\_why...

A3401020157的电站\_why...

A340506987的电站\_why...

A3408131616的电站\_why...

A3505050280的电站

A3610260698的电站

A361215002的电站

A361215003大量输入...

A1702052626的电站

A1704220148的电站

A1706011111的电站

A1706202728的电站\_why...

A1707202185的电站

A1707260125的电站

A1708044457的电站

Inverter model

Country(region)

Grid type

Version no.

Q Search

SHSK-20

All

50Hz

All

Command line parameters setup

Initial grid connection

Settings

History task

Plant name	Device name	Device SN	Inverter model	Country(region)	Grid type	Version no.	Device space	Operation
A1707202518的电站	SHSK_1	A1707202518	SHSK-20	Australia	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	A1707202518的电站	
A1709159998的电站	SHSK_1	A1709159998	SHSK-20	Australia	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	A1709159998的电站	
A1802068830的电站	SHSK_1	A1802044356	SHSK-20	Australia	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	A1802068830的电站	
A1708000001的电站	SHSK_2	A1708000001	SHSK-20	United Kingdom	50Hz	0-0.0.0-0-0.0-0.0	A1708000001的电站	
A1802068830的电站	SHSK_1	A1802044353	SHSK-20	United Kingdom	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	A1802068830的电站	
A1805244358的电站	SHSK_1	A1805244356	SHSK-20	Australia Energy ex	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	A1805244358的电站	
A1806163148的电站	SHSK_2	A1805244351	SHSK-20	United Kingdom	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	A1806163148的电站	
B1811191496的电站	SHSK_1	A1805244356	SHSK-20	Australia	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	B1811191496的电站	
B18111915448的电站	SHSK_1	A1805244356	SHSK-20	Australia	50Hz	CB0-1.0.17.0-A B0-1.0.17.0	B18111915448的电站	
HBV1802008125的电站	SHSK_2	A1805244351	SHSK-20	United Kingdom	50Hz	CB0-1.0.17.0-A	HBV1802008125的电站	

Total 14

10/page

<

1

>

Go to 1

## 5.2 Command Line Parameter Setup

**Step1** Select a plant on the left and a plant device, and click "Command line parameters setup" to enter the corresponding interface.

Command line parameters setup

Add Delete

NO.	Parameter address	Data Type	Set value
No Data			

1.The instruction will issue parameters in order ensure correct parameters order  
 2.To issue packed instructions, separate address and setting by DBC case comma  
 e.g:Parameter address : 83204,83205,83206 Set value : 20,30,40  
 3.Issuance of this instruction successful or not depending on device and network

Send down instruction

**Step2** Click **【Add】** to fill in parameter address, data type, and set value. Select an instruction to be delivered, and click **【Send down instruction】** to enter login password.

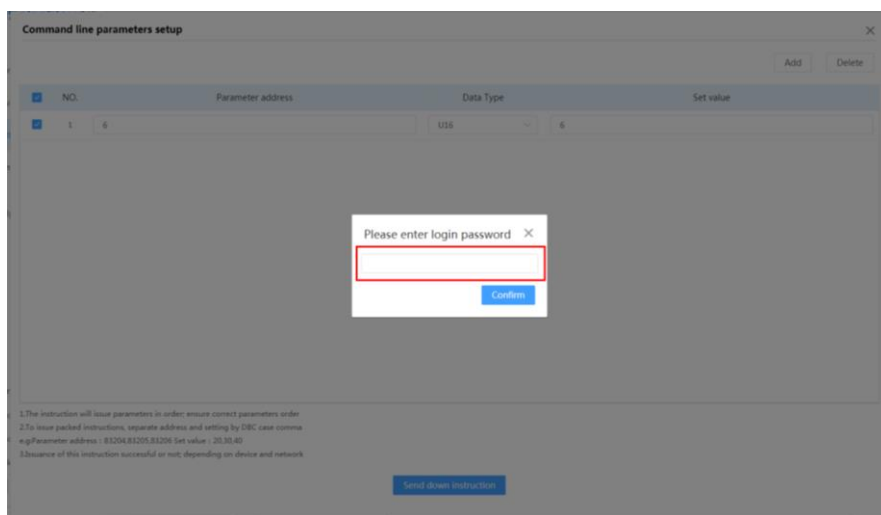
Command line parameters setup

Add Delete

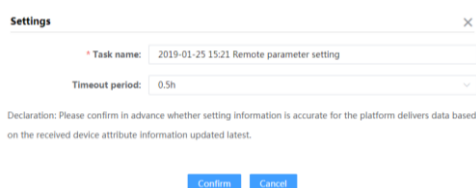
NO.	Parameter address	Data Type	Set value
1	6	USS	6

1.The instruction will issue parameters in order ensure correct parameters order  
 2.To issue packed instructions, separate address and setting by DBC case comma  
 e.g:Parameter address : 83204,83205,83206 Set value : 20,30,40  
 3.Issuance of this instruction successful or not depending on device and network

Send down instruction



**Step3** Enter the correct login password. Then a parameter setting interface pops up.



Task name and timeout time can be set. The timeout time can be 0.5h, 1h, and 72h, and the user can select the time according to operation time and parameter setting time of the inverter. After setting, click **【Confirm】**, and the system generate the parameter delivery task. In addition, history tasks can be viewed.

**Step4** Click "View" on the operation bar, to view the task. Click "Cancel the task" to cancel the latest parameter setting.

## 5.3 Initial Grid Connection Setting

**Step1** Select a plant on the left and a plant device, and click "Initial grid connection", to enter the country and grid type interface.

**Initial grid connection** ✕

NO.	Parameter name	Numerical term	Data range (min.)	Data range (max.)	Coefficient	Unit	Remarks
1	Country (region) selection	Select	---	---	---	---	---
2	Grid type		---	---	---	---	---

[Send down instruction](#)

**Step2** After selecting the county, grid type and related country parameters, click **【Send down instruction】**, and a prompt dialog box pops up.

**Step3** Enter the correct login password. Then a parameter setting interface pops up.

**Settings** ✕

\* Task name: 2019-01-25 15:21 Remote parameter setting

Timeout period: 0.5h

Declaration: Please confirm in advance whether setting information is accurate for the platform delivers data based on the received device attribute information updated latest.

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

Task name and timeout time can be set. The timeout time can be 0.5h, 1h, and 72h, and the user can select the time according to operation time and parameter setting time of the inverter. After setting, click **【Confirm】**, and the system generate the parameter delivery task. In addition, history tasks can be viewed.

**Step4** Click "View" on the operation bar, to view the task. Click "Cancel the task" to cancel the latest parameter setting.

**Task list** ✕

2018-04-10 2019-04-10 Task name:  [Search](#)

NO.	Task name	Operating Time	Complete time	Operator	Task status	Operation
1	2019-04-10 10:13 Remote parameter setting	2019-04-10 09:54:17		ghm	Executing	<a href="#">View</a> <a href="#">Cancel the task</a>
2	2019-04-10 09:52 逆变器启动参数设置	2019-04-10 09:52:30	2019-04-10 09:52:49	testapp	Success : 137 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
3	2019-04-09 17:21 逆变器启动参数设置	2019-04-09 17:21:02	2019-04-09 17:21:24	testapp	Success : 43 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
4	2019-04-09 17:17 逆变器启动参数设置	2019-04-09 17:17:12	2019-04-09 17:17:34	testapp	Success : 43 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
5	2019-04-09 17:09 逆变器启动参数设置	2019-04-09 17:09:19	2019-04-09 17:09:24	testapp	Success : 1 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
6	2019-04-09 17:05 逆变器启动参数设置	2019-04-09 17:05:24	2019-04-09 17:05:25	testapp	Success : 0 Piece   Failed : 0 Piece   Timeout : 20 Piece   Cancel : 20 Piece	<a href="#">View</a>
7	2019-04-09 16:36 逆变器启动参数设置	2019-04-09 16:36:06	2019-04-09 16:36:27	testapp	Success : 32 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
8	2019-04-09 16:22 逆变器启动参数设置	2019-04-09 16:22:58	2019-04-09 16:22:59	testapp	Success : 0 Piece   Failed : 0 Piece   Timeout : 2 Piece   Cancel : 0 Piece	<a href="#">View</a>
9	2019-04-09 15:47 逆变器启动参数设置	2019-04-09 15:45:41	2019-04-09 15:46:12	testapp	Success : 43 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>

Total 1001 10/page 1 2 3 4 5 6 ... 501 > Go to: 1

## 5.4 Parameter Setting

**Step1** After setting the country and grid type, click "Setting" to enter the inverter parameter setting interface and set the system parameter, protection parameter, and power regulation mode.

NO.	Parameter name	Latest value	Numerical term	Data range (min.)	Data range (max.)	Coefficient	Unit	Remarks
1	On / Off	--	Please set...	--	--	--	--	--
2	Existing Inverter	--	Please set...	--	--	--	--	--
3	Feeder limit power value	--		0	5,000	1	W	--
4	Off-grid enable settings	--	Please set...	--	--	--	--	--
5	Energy meter connection reversal failure cleanup	--	Please set...	--	--	--	--	--

Send down instruction

**Step2** After parameter setting, click 【Send down instruction】, then a dialog box pops up, and enter the login password into it.

**Step3** When the password is verified, a parameter setting page pops up. Edit task and timeout time, and click 【Confirm】. The history tasks can be viewed.

## 5.5 View History Tasks

Click "Task list" to view history tasks.

NO.	Task name	Operating Time	Complete time	Operator	Task status	Operation
1	2019-04-10 10:13 Remote parameter setting	2019-04-10 10:14:17		ghm	Executing	View/Cancel the task
2	2019-04-10 09:52 远端参数设置失败	2019-04-10 09:52:20	2019-04-10 09:52:49	testapp	Success : 137 Place   Failed : 0 Place   Timeout : 0 Place   Cancel : 0 Place	View
3	2019-04-09 17:21 远端参数设置失败	2019-04-09 17:21:02	2019-04-09 17:21:24	testapp	Success : 43 Place   Failed : 0 Place   Timeout : 0 Place   Cancel : 0 Place	View
4	2019-04-09 17:17 远端参数设置失败	2019-04-09 17:17:12	2019-04-09 17:17:34	testapp	Success : 43 Place   Failed : 0 Place   Timeout : 0 Place   Cancel : 0 Place	View
5	2019-04-09 17:09 远端参数设置失败	2019-04-09 17:09:19	2019-04-09 17:09:24	testapp	Success : 1 Place   Failed : 0 Place   Timeout : 0 Place   Cancel : 0 Place	View
6	2019-04-09 17:05 远端参数设置失败	2019-04-09 17:05:24	2019-04-09 17:05:25	testapp	Success : 0 Place   Failed : 0 Place   Timeout : 20 Place   Cancel : 20 Place	View
7	2019-04-09 16:36 远端参数设置失败	2019-04-09 16:36:06	2019-04-09 16:36:27	testapp	Success : 32 Place   Failed : 0 Place   Timeout : 0 Place   Cancel : 0 Place	View
8	2019-04-09 16:22 远端参数设置失败	2019-04-09 16:22:58	2019-04-09 16:52:59	testapp	Success : 0 Place   Failed : 0 Place   Timeout : 2 Place   Cancel : 0 Place	View
9	2019-04-09 15:41 远端参数设置失败	2019-04-09 15:45:41	2019-04-09 15:46:12	testapp	Success : 43 Place   Failed : 0 Place   Timeout : 0 Place   Cancel : 0 Place	View

Total 5001 10/page 1 2 3 4 5 6 Go to 1

Select a time range and task name to view the corresponding history task.

Click the "View" button corresponding to the task named "Remote parameter query" to view information such as execution result and read-back value.

**Task list**

2018-04-10 2019-04-10 Task name:

NO.	Task name	Operating Time	Complete time	Operator	Task status	Operation
1	2019-04-10 10:13 Remote parameter setting	2019-04-10 10:14:17		ghm	Executing	<a href="#">View</a> <a href="#">Cancel the task</a>
2	2019-04-10 09:52 逆变器启动参数设置	2019-04-10 09:53:20	2019-04-10 09:52:49	testapp	Success : 137 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
3	2019-04-09 17:21 逆变器启动参数设置	2019-04-09 17:21:02	2019-04-09 17:21:04	testapp	Success : 43 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
4	2019-04-09 17:17 逆变器启动参数设置	2019-04-09 17:17:12	2019-04-09 17:17:04	testapp	Success : 43 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
5	2019-04-09 17:09 逆变器启动参数设置	2019-04-09 17:09:19	2019-04-09 17:09:24	testapp	Success : 1 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
6	2019-04-09 17:05 逆变器启动参数设置	2019-04-09 17:05:24	2019-04-09 17:05:25	testapp	Success : 0 Piece   Failed : 0 Piece   Timeout : 20 Piece   Cancel : 20 Piece	<a href="#">View</a>
7	2019-04-09 16:16 逆变器启动参数设置	2019-04-09 16:16:06	2019-04-09 16:16:27	testapp	Success : 32 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>
8	2019-04-09 16:22 逆变器启动参数设置	2019-04-09 16:22:58	2019-04-09 16:52:59	testapp	Success : 0 Piece   Failed : 0 Piece   Timeout : 2 Piece   Cancel : 0 Piece	<a href="#">View</a>
9	2019-04-09 15:41 逆变器启动参数设置	2019-04-09 15:45:41	2019-04-09 15:46:12	testapp	Success : 43 Piece   Failed : 0 Piece   Timeout : 0 Piece   Cancel : 0 Piece	<a href="#">View</a>

Total 5001 30/page < 1 2 3 4 5 6 ... 501 > Go to 1

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**Task name : 2019-04-09 17:21 逆变器启动参数设置**

Plant name :  Inverter SN :

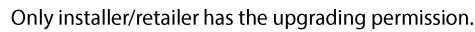
Parameter setting execution result: Total set : 43 Piece ☐ Executing : 0 Piece ☐ Wait for execution : 0 Piece ☐ Success : 43 Piece ☐ Failed : 0 Piece ☐ Timeout : 0 Piece ☐ Cancel : 0 Piece

NO.	Plant name	Device space+Device name	Inverter SN	Execute instruction	Set value	Read-back value	Execution result
1	A1812016596	1392457501387X_001_001	Y3801900017	On / Off	--	On	Success
2	A1812016596	1392457501387X_001_001	Y3801900017	Energy Adjustment	--	0	Success
3	A1812016596	1392457501387X_001_001	Y3801900017	Country(region)	--	China	Success
4	A1812016596	1392457501387X_001_001	Y3801900017	Protection series	--	2-stage	Success
5	A1812016596	1392457501387X_001_001	Y3801900017	Under-frequency primary protection value	--	--	Success
6	A1812016596	1392457501387X_001_001	Y3801900017	I-Vmax	--	--	Success
7	A1812016596	1392457501387X_001_001	Y3801900017	Under-frequency primary protection value	--	--	Success
8	A1812016596	1392457501387X_001_001	Y3801900017	I-Fmax	--	--	Success
9	A1812016596	1392457501387X_001_001	Y3801900017	Grid overvoltage multi-level protection recovery v	--	580.5	Success
10	A1812016596	1392457501387X_001_001	Y3801900017	Undervoltage secondary protection recovery value	--	488.8	Success

Total 43 30/page < 1 2 3 4 5 > Go to 1

Click "Export" to download the read-back values.

## 6 Firmware Update



Click "Firmware update" to enter the corresponding interface.

Input plant name

Q

Firmware update

121008530的电站\_why\_ba...

121099261的电站\_why\_ba...

130510713的电站\_why\_ba...

170804116的电站

201912346的电站

230082104的电站

50KTL测试电站

80K\_2测试站-A1806092608...

A123456789的电站

A123456789的电站

A123456789的电站

A1010200612的电站\_why\_b...

A1010200938的电站\_why\_b...

A1010201579的电站\_ba...

A105069978的电站

A1081116168的电站\_why\_b...

A150505208的电站

A1610260618的电站

A161215002的电站

A1612150037大机输入1250...

A1702052676的电站

A17042015488的电站

A17060111119的电站

A17062027208的电站\_why\_ba...

A1707202518的电站

Device type

Device model

Device SN

Inverter

Please select

Device SN

Search

#	Plant name	Device SN	Device type	Device model	Online state	Current version	Device name	Operation
	TA170726012的电站	A1706260307	Inverter	SG6K-D	Offline	<a href="#">Check version</a>	SG6K-D_1	
	MG1802072222的电站	1111111111111111	Inverter	SG6K-D	Offline	<a href="#">Check version</a>	SG6K-D_1	
	A170044450的电站	A3801127547	Inverter		Offline	<a href="#">Check version</a>	SG6K-D_1	
	西藏测试站电站	A2101048999	Inverter	SG6KTL-M	Offline	<a href="#">Check version</a>	INHT10K_1	
	ZCH170841168的电站	SG20260022	Inverter	SG20KTL-M	Offline	<a href="#">Check version</a>	SG6K-D_1	
	西藏测试站电站	A3801082488	Inverter	A83K1	Offline	<a href="#">Check version</a>	INHT5K_1	
	A17004444的电站	X3821249999	Inverter	SG12KTL-M	Offline	<a href="#">Check version</a>	SG12KTL-M_39	
	MG1801319999的电站	A1701116951	Inverter	SG6K-D	Offline	<a href="#">Check version</a>	INHT10K_1	
	A1610260938的电站	205	Inverter		Offline	<a href="#">Check version</a>	why666	
	A123456789测试站 长度测试站长度测试站	205	Inverter	SG12KTL-M	Offline	<a href="#">Check version</a>	why666	
	A1612150037大机输入1250...							

Total 276010/page

1

2

3

4

5

176

Go to 1

## 6.1 Firmware Update

On this interface, the version of the software associated with the device in the plant system can be upgraded remotely. The steps are as follows:

**Step1** Click "Firmware update" to enter the firmware update interface.

Input plant name

### Firmware update

**Device type**  
 Inverter  Please select

**Device model**  
 Device SN

**Device SN**

#	Plant name	Device SN	Device type	Device model	Online state	Current version	Device name	Operation
	121008530的电站_why_ban...	A1704290307	Inverter	S0GK-D	Offline	<a href="#">Check version</a>	S0GK_D_1	<input type="button" value="↻"/>
	121092618的电站_why_ban...	M01007072222的电站		S0GK-D	Offline	<a href="#">Check version</a>	S0GK_D_1	<input type="button" value="↻"/>
	1305101738的电站_why_ban...	11111111111111111111		S0GK-D	Offline	<a href="#">Check version</a>	S0GK_D_1	<input type="button" value="↻"/>
	170804116009的电站	A1800112547	Inverter	S0BTL-M	Offline	<a href="#">Check version</a>	S0BK_D_1	<input type="button" value="↻"/>
	201912346的电站	逆变器中的电站	A20180404999	Inverter	Offline	<a href="#">Check version</a>	NHATLCK_1	<input type="button" value="↻"/>
	2303025424的电站	DC+1708041160的电站	A1802180023	Inverter	Offline	<a href="#">Check version</a>	S0GK_D_1	<input type="button" value="↻"/>
	50CTL测试电站	逆变器中的电站	A1803082488	Inverter	Offline	<a href="#">Check version</a>	NHATSL_1	<input type="button" value="↻"/>
	8DK_户用组-A1806092608...	A1708044666的电站	X180249999	Inverter	Offline	<a href="#">Check version</a>	SGLZTL_M_99	<input type="button" value="↻"/>
	A123456789的电站	M010013199999的电站	A1703118051	Inverter	Offline	<a href="#">Check version</a>	NHATLCK_1	<input type="button" value="↻"/>
	A123456789的电站	A1801000018的电站	205		Offline	<a href="#">Check version</a>	why065	<input type="button" value="↻"/>
	A123456789的电站	逆变器中的电站	205	Inverter	Offline	<a href="#">Check version</a>	why065	<input type="button" value="↻"/>

Total 1760
10/page

☒ 1
 ☐ 2
 ☐ 3
 ☐ 4
 ☐ 5
 ☐ 6
 ☐ 7
 ☐ 8
 ☐ 9
 ☐ 10

Go to 1

**Step2** Select, from the device list bar on the left, the plant whose device needs to be updated. (Batch

operation is feasible).

**Step3** Select "Device type" and "Device model" and import the device serial number. Currently, the following two importing methods are available:

- Fill in the device serial number.
- Click "Device SN import" to import SNs in batch.

**Step4** Select a device internal module, for example, ARM, BAT, and BOOT. Enter the version corresponding to the module.

**Step5** Select a device and click "Firmware update".


Upload the upgrading package

Update package:

\* (Update package no more than 60M, compressed package for zip format; update package name for software version number)

**Step6** Select an "Update package", and click "Upgrade".

## 6.2 View history update tasks

Click " " to view history information.

NO.	Task name	Device type	Device model	Task start time	Task end time	Executor	Task execution status	Success statistics	Task progress	Operation
1	2018-01-18 15:22 S08 KTL-M 逆变器固件升级	Inverter	S08KTL-M	2018-01-18 15:23:46	2018-01-18 15:26:44	ghm	Operation completed	1/1 100%	1/1 100%	<a href="#">View</a>
2	2018-07-25 14:05 S020 KTL-M 逆变器固件升级	Inverter	S020KTL-M	2018-07-28 09:28:06	2018-07-28 11:29:37	ghm	Operation completed	0/1 0%	1/1 100%	<a href="#">View</a>
3	2018-07-25 09:47 S020 KTL-M 逆变器固件升级	Inverter	S020KTL-M	2018-07-25 09:47:03	2018-07-25 09:57:04	ghm	Operation completed	1/1 100%	1/1 100%	<a href="#">View</a>
4	2018-07-23 13:09 S08 KTL-M 逆变器固件升级	Inverter	S08KTL-M	2018-07-23 13:09:50	2018-07-23 13:10:51	ghm	Operation completed	0/1 0%	1/1 100%	<a href="#">View</a>
5	2018-05-21 07:08 E-Ret V11 光伏逆变器固件升级	Communication module	E-Ret V11	2018-05-21 07:09:03	2018-05-21 09:09:04	ghm	Operation completed	0/1 0%	1/1 100%	<a href="#">View</a>
6	2018-05-21 07:04 E-Ret V11 光伏逆变器固件升级	Communication module	E-Ret V11	2018-05-21 07:04:43	2018-05-21 09:04:42	ghm	Operation completed	0/1 0%	1/1 100%	<a href="#">View</a>
7	2018-05-21 07:15 E-Ret V11 光伏逆变器固件升级	Communication module	E-Ret V11	2018-05-21 07:15:01	2018-05-21 09:15:52	ghm	Operation completed	0/1 0%	1/1 100%	<a href="#">View</a>

Total 15 10/page 1 2 Go to 1

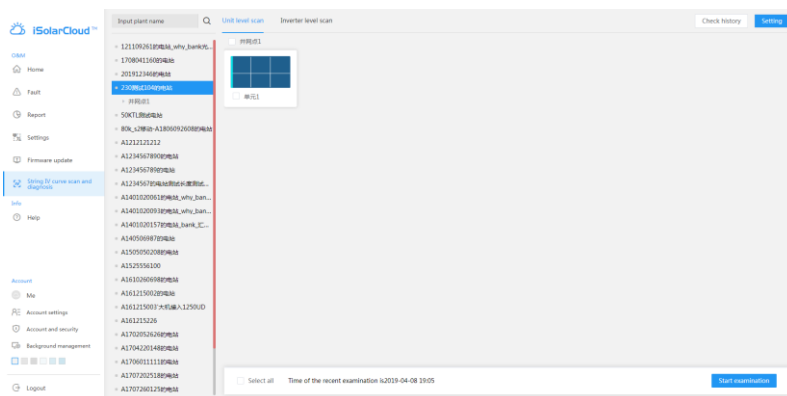
Select a time range, device type, device model, and goal software version to view the corresponding history tasks.

## 7 String IV Curve Scan and Diagnosis



Only installer/retailer has the string IV curve scan and diagnosis permission.

**Step1** Click "string IV curve scan and diagnosis", to enter the corresponding interface.



On the top of the interface display 【Unit level scan】, 【Inverter level scan】, 【Check history】, 【Setting】.

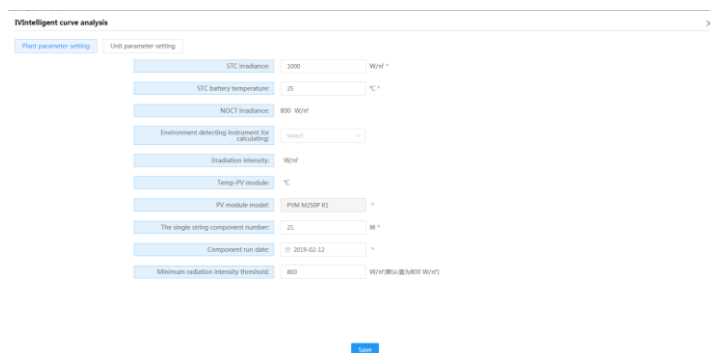
At the lower part display all grid-connected points of the plant and unit graph list.

On the bottom display "Select All", "Time of the recent examination", and "Start examination".

**Step2** Select a plant from the tree diagram on the left.

Click 【Setting】 to enter the "IV intelligent curve analysis" interface.

You will enter the "Plant parameter setting" interface by default, on which module parameters applicable to the whole plant can be set.



Click 【Unit parameter setting】, select an inverter, and click 【Setting】 to set the corresponding parameters. Click 【Batch settings】 to set parameters of multiple selected inverters at the same time.

Intelligent curve analysis

Plant parameter setting Unit parameter setting Batch settings

#	NO.	Inverter	Grid-connected point	Unit	Operation
<input type="checkbox"/>	1	HWS30K75-128	HW0101	HW01	Settings
<input type="checkbox"/>	2	HWS30K75-127	HW0101	HW01	Settings
<input type="checkbox"/>	3	HWS30K75-126	HW0101	HW01	Settings
<input type="checkbox"/>	4	HWS30K75-125	HW0101	HW01	Settings
<input type="checkbox"/>	5	HWS30K75-124	HW0101	HW01	Settings
<input type="checkbox"/>	6	HWS30K75-123	HW0101	HW01	Settings
<input type="checkbox"/>	7	HWS30K75-122	HW0101	HW01	Settings
<input type="checkbox"/>	8	HWS30K75-121	HW0101	HW01	Settings
<input type="checkbox"/>	9	HWS30K75-120	HW0101	HW01	Settings
<input type="checkbox"/>	10	HWS30K75-119	HW0101	HW01	Settings

**Step3** Click **【Unit level scan】**, select a device, and click **【Start examination】**. Enter the login password on the pop-up window, and click **【Confirm】**.

Start examination

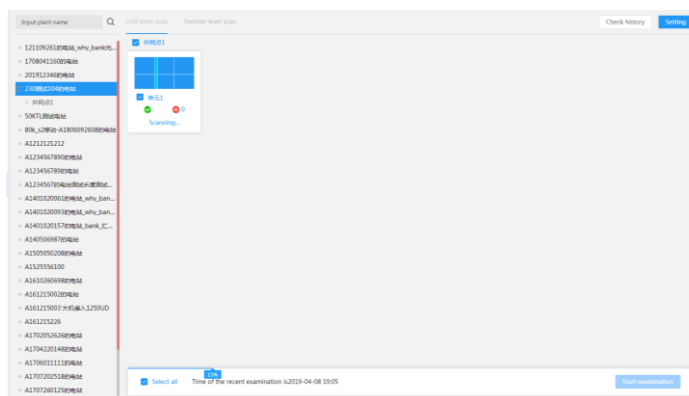
Scan results may not be accurate without environment monitor or environment monitor data is abnormal

\* Task name  
230测试104的电站Unit level scan2019-04-10 10:49:00

\* Login password

Cancel Confirm

After the scanning starts, the system will determine whether the parameters are configured. If not, the parameter configuration interface will be linked to. Alternatively, users can click **【Setting】** to enter the parameter setting interface, for which, refer to **Step 2**.



After the instruction is delivered successfully, the page status will be refreshed in real time, and scanning results and progress will be displayed.

The unit is in the "Scanning..." state.

After the scanning, click **【Examination report】** to view the scanning result.

You will enter "IV intelligent curve analysis" interface by default, on which abnormal string information will be displayed. Click **【View】** to enter the "String diagnosis analysis" interface.

Close the "String diagnosis analysis" interface, and click **【IV Curve】** so as to view the IV curve of abnormal string by default.

**Step4** Return to the "IV intelligent curve analysis" interface, click the button **【Inverter level scan】**, select a device, and click the button **【Start examination】**, the same as **step 3**.

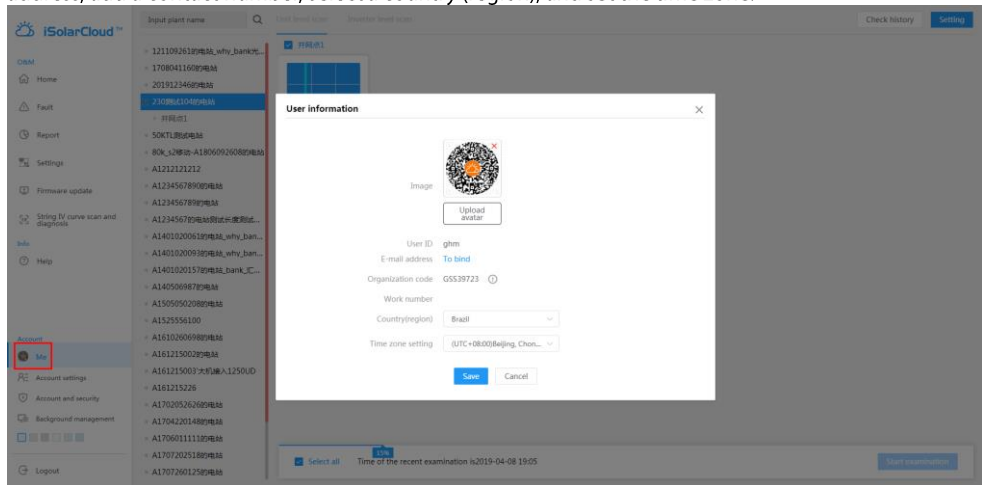
**Step5** Return to the "IV intelligent curve analysis" interface and click **【Check history】**, to view the history scanning results.

[illegible]

## 8 Other Operations

### 8.1 User Information

Click the account to enter the user information interface, on which users can bind an e-mail address, add a contact number, select a country (region), and set the time zone.

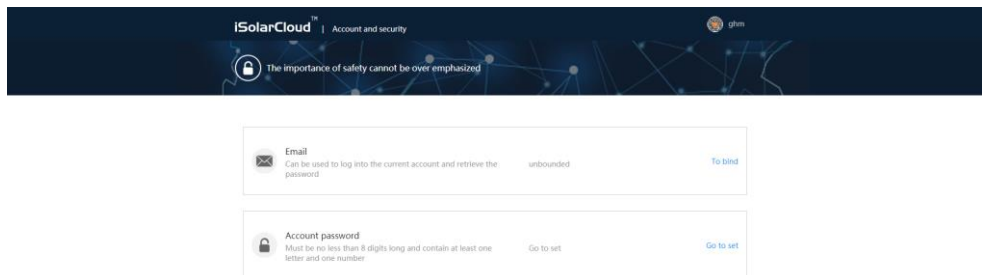


The installer/retailer can view his organization code, and the owner does not have organization code.

### 8.2 Account and Security

Click "Account and security" to enter the account and security interface.

Bind phone number and email address, and modify password.



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## 8.3 Account Settings

Click "Account I settings" to enter the account settings interface.

Users can modify basic account information, perform personal setting and privacy setting.

The screenshot displays the 'Account Settings' interface with three main sections:

- Upper level organization information:** Contains two input fields. The first is 'Superior distributor/installer organization code' with the value 'CHN00001'. The second is 'Superior distributor/installer organization message' with the value 'China 13275515159'. A 'Save' button is located to the right.
- Personalization:** Contains a 'Default language' dropdown menu set to '简体中文' and a 'Theme' selector with a blue icon. A 'Save' button is at the bottom right.
- Privacy setting:** Includes a 'Save contact' link, a warning about deleting personal information, and a toggle for 'Enable the receipt notification'.



The installer/retailer can view and modify the super-level dealer/installer organization code and can be managed by the super dealer/installer. The end user does not have superior-level organization code and related information.

## 8.4 Background Management

Click "Background management" to enter the corresponding interface.



Only installer/retailer can access the background management interface.

## 8.5 Help

Click "Help" to view the user manual corresponding to the software.

## 9 Appendix

### 9.1 System Requirements

<b>Browser</b>	Chrome recommended
<b>Resolution</b>	1920*1080 recommended and 1366*768 supported

### 9.2 Manual Description

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The content of the manual will be periodically updated or revised as per the product development. It is probably that there are changes in manuals for the subsequent module edition. Refer to the actual screen interface, and obtain the latest version at [www.sungrowpower.com](http://www.sungrowpower.com) or from the sales department.

### 9.3 Contact Sungrow

Should you have any question about this product, please contact us.

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## **Quick User Guide**

iSolarCloud APP

Mobile Terminal Application

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# 1 About This Manual

## 1.1 Target Group

This manual is intended for distributor/installer, end user, and O&M personnel of PV residential system, energy storage system, commercial system, and microgrid.

## 1.2 Symbols



NOTE indicates additional information, emphasized contents or tips to help you solve problems or save time.

## 1.3 Introduction

This manual mainly describes how to install, configure, and operate the iSolarCloud APP.



Screenshots in this manual are based on the iSolarCloud APP V2.1.5. All icons and data displayed are for reference only, and the actual screens may differ.

Operation method is described by using the iOS system as an example. The method for the Android system is the same, except that the screens are somewhat different. The actual screens prevail.

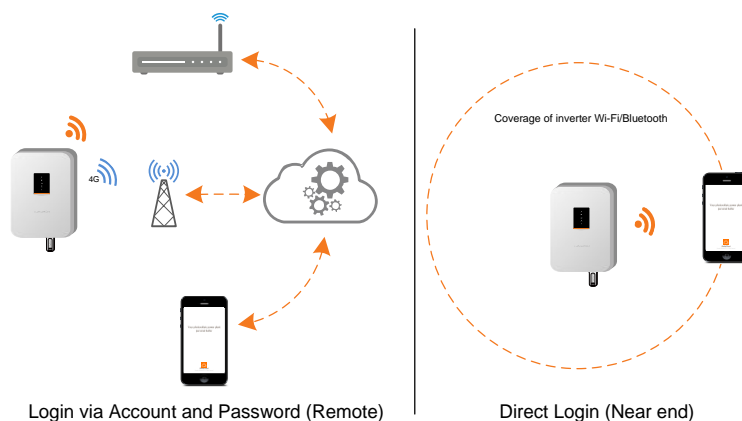
## 2 Product Description

### 2.1 APP Introduction

The iSolarCloud APP is a mobile application used for managing PV plants. The APP can provide power plant operation analysis and mobile intelligent O&M services. It is designed with functions such as display of plant operation data, rapid plant access, remote parameter setting, quick fault positioning and notification, and power generation and revenue analysis, achieving convenient and efficient end-to-end operation and maintenance.

### 2.2 Networking Modes

Users can monitor plant device information either remotely or locally via the APP.



#### Login via Account and Password (Remote)

Establish communication connection between the communication module and home router or base station, so that the inverter can communicate with cloud server. The users can view inverter data or send instructions to control the inverter through the APP.

#### Direct Login (Near end)

Establish communication connection between the mobile phone and WiFi wireless communication module or Bluetooth module integrated into the inverter, achieving near-end maintenance on the inverter. The users can view inverter information and set parameters through the APP.



Bluetooth login is only applicable to SUNGROW inverters with built-in Bluetooth module. For whether the inverter is equipped with the Bluetooth module, consult the distributor/installer.

## 2.3 APP Installation

This section introduces how to download and install the iSolarCloud APP.

### Prerequisites

- Mobile phone operating system: Android 4.4 or later; iOS 9.3 or later.
- The mobile phone can be normally connected to Wi-Fi or 2G/3G/4G network.
- The mobile phone has sufficient memory space for APP installation.
- The mobile phone has sufficient battery power.

### Procedure

**Step1** Download the iSolarCloud App from Myapp (Android mainland China users), Google Play (Android users outside mainland China), or APP Store (iOS users). Alternatively, scan the following QR code and follow the instructions on the screen to download the APP.



**Step2** Select the downloaded installation package and follow the instructions on the screen to complete the installation. After installation, the iSolarCloud icon will be displayed on the mobile phone screen.



iSolarCloud

## 3 Operation Instruction

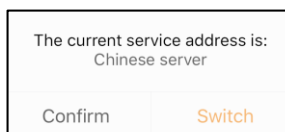


Images in this manual are for reference only, and the actual screens may differ.

### 3.1 Login Interface

#### 3.1.1 Server Setting

When you first access the APP, a server selection box will pop up. Tap "Confirm" to connect the current address displayed on the screen, or tap "Switch" to select another one.



It is recommended that mainland China user select "Chinese server", European and African users select "European server", and users in the other regions select "International server".



The service address accessed by the APP must be the same as that accessed by the Logger, and communication failure will occur if otherwise. If there are any problems, contact SUNGROW.

Users can switch the service address according to demands.


#### Procedure

**Step1** Tap the icon  in the upper right corner of the login screen.

**Step2** Tap "Select server".

**Step3** Select the corresponding service address.

#### 3.1.2 Help

Tap the button  in the upper right corner of the login screen to view the corresponding user manual, FAQs, terms of service, etc.

### 3.2 Remote Monitoring

This section describes how to register an account, log into the iSolarCloud APP via the account and password, view plant information and set plant parameters.

#### 3.2.1 Account Registration

##### Prerequisites

The service address is set to "European server" or "International server".

## Introduction

The account distinguishes two user groups end user and distributor/installer.

The end user can view plant information, create plants, set parameters, share plants, etc.

The distributor/installer can help the end user to create plants, manage, install, or maintain plants, and manage users and organizations.

## Procedure

**Step1** Tap "Register" to enter the registration screen.

**Step2** Select "End user" or "Distributor/installer" to enter the corresponding screen.

**Step3** Fill in the registration information, including select server, email, verification code, password, confirm password, country (region), and time zone. The distributor/installer further has the permission to fill in the company name and the code of upper level distributor/installer.

**Step4** Tick "Accept privacy protocol" and tap "Register", to finish the registration operation.



- European users and African users select "European server". Users other than mainland China users, European users and African users select "International server".
- At present, users selecting "Chinese server" cannot register accounts.
- The code of upper level distributor/installer can be obtained from the upper level distributor/installer. Only when your organization belongs to the upper level distributor/installer organization, can you fill in the corresponding code.
- When the country (region) is set to Brazil or Mexico, the field code of upper level distributor/installer must be filled in.

### 3.2.2 Login via Account

This section describes how to log into the iSolarCloud APP.

#### Prerequisites

- The iSolarCloud APP has been installed.
- You have already registered an account or have got the account and password from the distributor/installer or SUNGROW.

#### Procedure

**Step1** Enter the account and password on the login screen.

**Step2** Tap "Login" to enter the home screen.

In case you log into the APP for the first time, or the distributor/installer has not created plants for the end user, the home screen is as the following Fig 3-1(Left). If you have created plants, the home screen is as the following Fig 3-1 Fig 3-1 (Right). For description of the home screen, refer to Table 3-1.

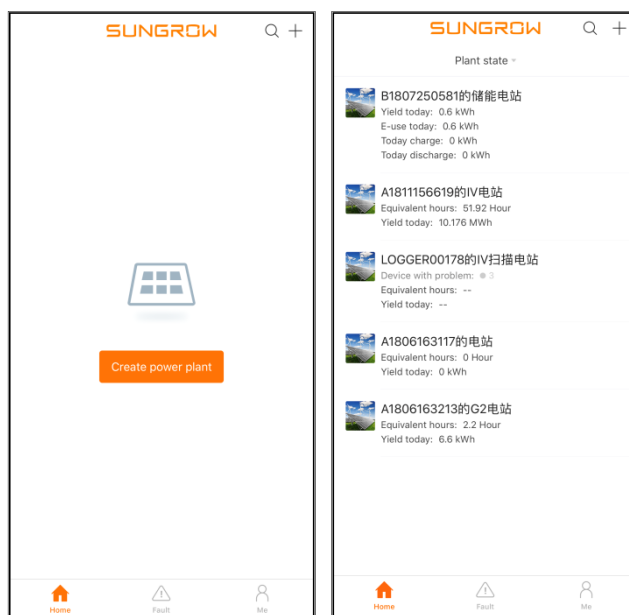


Fig 3-1 Home screen

Table 3-1 Description of home screen

Navigation bar	Description
Home	The plant list shows plants created and plants shared to others. Users can create plants, share plants, view plant information and set plant parameters on this screen. For details, refer to "3.2.4 Creating Plant ~ 3.2.8 Configuration"
Fault	Tap "Fault" to view fault types and detailed fault information. For details, refer to "3.2.9 Viewing Fault Information".
Me	Tap "Me" to perform operations such as Wi-Fi configuration, FAQ viewing, and personal setting. For details, refer to "3.2.10 Me".

### 3.2.3 Wi-Fi Configuration

The WiFi module can be connected to the home network, so that the inverter can communicate with the iSolarCloud server. Users can view inverter data or send instructions to control the inverter through the APP.

#### Prerequisites

- You have already got the account and password from the distributor/installer or SUNGROW.
- The inverter has been connected with the WiFi wireless communication module researched by SUNGROW.
- You have got the Wi-Fi name and password of the home network.

#### Procedure

**Step1** Enter the account and password on the login screen and tap "Login", to enter the APP home

screen.

**Step2** Tap "Me" on the navigation bar to enter the corresponding setting screen.

**Step3** Tap "Wi-Fi config" to enter the corresponding screen.

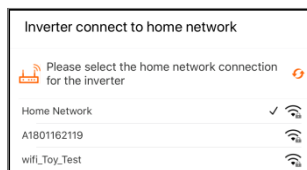
**Step4** Connect to the inverter Wi-Fi. For Android system, tap "Settings" to automatically enter the wireless network screen. For iOS system, manually switch to "Settings-WLAN". Select the inverter Wi-Fi named in the form of "SG-WiFi module serial number", where the serial number can be found on the side of the WiFi module.



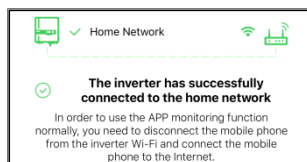
**Step5** Prompt information will pop up once you successfully connect to the inverter Wi-Fi.




**Step6** Tap "Next" at the lower part of the screen to connect the inverter to the home network. Select the home network Wi-Fi and enter the password. The symbol "√" indicates a successful connection to the home network Wi-Fi.



**Step7** Tap "Next", and information indicating a successful connection to the home network will pop up. Tap "Complete" to finish the Wi-Fi configuration.





- Alternatively, you can tap the icon  in the upper right corner on the login screen and select Wi-Fi configuration to configure the Wi-Fi.
- Disconnect the mobile phone from the inverter Wi-Fi to ensure the phone can normally access the Internet. Then connect the mobile phone to the home network, or enable the "Mobile data".

### 3.2.4 Creating Plant

This section describes the procedure of creating plants (adding Wi-Fi communication devices) through the APP.

The procedure of adding Logger1000, Logger3000, Eye communication device, and inverter is the same as that of the adding Wi-Fi communication device, but the screens are somewhat different. The actual screens prevail.

#### Prerequisites

- You have already got the account and password from the distributor/installer or SUNGROW.
- The inverter is normally connected to the communication device researched by SUNGROW.

#### Introduction

The end user assigns the plant to the distributor/installer for management and gets the distributor/installer code from the distributor/installer.


The distributor/installer who creates a plant for the end user needs to get the end user's phone number or e-mail address.



In creating a plant, the mobile phone number/e-mail address is required, and each number/e-mail address can be registered only once.

#### Procedure

**Step1** Enter the account and password on the login screen and tap "Login", to enter the APP home screen.


**Step2** If there is no plant, tap "Create power plant"; and if there are plants, tap the icon  in the upper right corner to enter the creating screen.

**Step3** Tap "Add device" to add a device by scanning the QR code on the device or manually entering the device serial number, and tap "Confirm" to enter the device list screen.

**Step4** Tap "Next" to fill in the plant information (see Table 3-2).

**Table 3-2** Description of plant parameters

Parameter	Description	End user	Distributor/installer
Plant name*	Name of the plant	√	√
	Device serial number (default)		
Plant type*	Type of the plant		
	Including residential PV plant, residential energy storage plant, commercial PV plant, and microgrid	√	√

Parameter	Description	End user	Distributor/installer
Distributor/installer code	Fill in the distributor/installer code, so that the distributor/installer can view and manage the plant.	√	×
Owner's phone or Owner's email*	The first time you fill in the end user's mobile phone number or e-mail address, the system will create an account for the end user and send a text message or email to the end user.  The Distributor/installer creates plants for the end user and can manage the plants by default.	×	√
Battery type**	Type of the battery Including lithium battery and lead-acid battery	√	√
Battery capacity**	Capacity of the battery	√	√
Country (region)*	Country (region) where the plant is located at	√	√
Plant time zone*	Time zone of the plant	√	√
Plant address*	Location of the plant, which can be added in two manners:  Manual input: enter the plant location manually  Automatic obtaining: tap the icon  to automatically obtain current location or search for plant location, and tap "Confirm".	√	√
Grid-connection date	Time at which the plant starts feed-in operation	√	√

Note: \* Indicates fields that must be filled in.

\*\* Applicable only to residential energy storage plant and microgrid.



The distributor/installer code must be filled in if the parameter "country (region)" is set to Brazil.

**Step5** Tap "Complete" to finish plant creating.

**Step6** Return to the APP home screen on which information of the newly created plant will be displayed.

### 3.2.5 Sharing and Deleting Plant

This section describes how to share and delete plants.


#### Plant sharing

End user can assign plants to other end users or distributor/installer for management.

### Prerequisites

The end user has the permission to share plants, but the distributor/installer does not have the permission.

### Procedure

- Step1** Select a to-be-shared plant on the home screen, swiping left (iOS) or pressing and holding (Android).
- Step2** Tap the icon  (iOS) or "Share" (Android) to enter the "Share plant" screen.
- Step3** Tap "ADD Share" to enter the corresponding screen. Type of users to which plants are shared and corresponding permissions are shown in the following Table 3-3.

**Table 3-3** Description of sharing permission

Type	Permission	Description
Designated user	Browser	User can only view plant data
	Administrator	User can manage plant
Visitor	Browser	Visitor can only view plant data

- Step4** Tap "Confirm", after which the added new information will be displayed on the plant sharing screen.


### Plant deletion

Delete the plant when it is connected abnormally or the corresponding onsite plant has been shut down.

### Prerequisites

End user has the permission of deleting plants, and distributor/installer can delete plants assigned to the distributor/installer for management.

### Procedure

- Step1** Select a to-be-deleted plant on the home screen, swiping left (iOS) or pressing and holding (Android).
- Step2** Tap the icon  (iOS) or "Delete" (Android), to delete the plant.

## 3.2.6 Viewing Plant Information

This section describes how to view power generation information and information of plant devices.



Parameters displayed may vary with plant types, and actual screens prevail.  
Description is given by using residential PV plant as an example.

### Plant information

- Step1** Tap a plant listed on the home screen to enter the plant detail screen. You will enter the "Device" tab by default.
- Step2** Switch to "Overview" tab, and you can view power generation information of the plant. See Table 3-4.

**Table 3-4** Description of plant parameters

Parameter	Description
Power flow chart	Including information such as PV power generation power and feed-in power, where the line with an arrow indicates energy flow between connected devices, and the arrow pointing indicates energy flow direction.
Current power	Present output power of the inverter
Power installed	Installed power of PV modules
Yield today	Today power yield of the inverter
Total yield	Accumulative power yield of the inverter
Today revenue	Today's revenue
Total revenue	Total revenue
Power generation chart	Including daily, monthly, and annual power generation histograms
Weather	Weather of today, tomorrow, and the day after tomorrow
Energy conservation and emission reduction	Including information such as SO <sub>2</sub> emission reduction, CO <sub>2</sub> emission reduction, equivalent trees planted, and mileage (car)

#### Device information

**Step1** Tap a plant listed on the home screen to enter the plant detail screen.

**Step2** You will enter "Device" tab by default, on which you can view all devices of the plant.

**Step3** Optionally, tap the icon  in the upper right corner to screen devices displayed. You can screen according to device state and device type.

**Step4** Tap device name, and you will enter "General information" screen by default. Switch the tabs "Existing fault ", "Energy information", and "Settings" to access respective screen.



Parameters displayed may vary with device types, and actual screens prevail.  
Description is given by using PV inverter as an example.

**Table 3-5** Description of plant parameters

Tab	Description
General information	Display information such as power generation, phase voltage, phase current, and power factor.
Existing fault	Display fault lists including fault, alarm, prompt, and advice.
Energy information	Display inverter power change curve.
Settings	You can perform initial grid-connection setting on the inverter. Specifically, refer to "3.2.7 Device Initialization". You can further set system parameters, protection parameters and power control.

### 3.2.7 Device Initialization

#### Prerequisites

If the inverter has not been initialized, perform initial grid-connection setting.



If there are multiple inverters that have not been initialized, perform initial grid-connection setting on all of the multiple inverters.

#### Procedure

**Step1** Tap a plant listed on the home screen to enter the plant detail screen.

**Step2** You will enter "Device" tab by default. Tap the name of the device that needs to be initialized and switch to "Settings" tab.

**Step3** Tap "Initial grid connection" to enter the corresponding screen.

**Step4** Set initial grid-connection parameters. See Table 3-6.



Parameters displayed may vary with device types, and actual screens prevail.  
Description is given by using PV inverter as an example.

**Table 3-6** Description of initial grid-connection parameters

Parameter	Description
Country (region)	Country (region) where the inverter is located at
Grid type	Type of grid

#### NOTICE

**The parameter "country (region)" must be set to the country (region) where the inverter is installed at. Otherwise, the inverter may report errors.**

**Step5** Tap "Send down instruction" to finish the initial grid-connection setting.


### 3.2.8 Configuration

This section describes plant configuration, device configuration, device replacement, and tariff configuration.

#### Plant configuration

You can set plant name, plant type, etc.

**Step1** Tap a plant listed on the home screen to enter the plant detail screen.


**Step2** Tap the icon  in the upper right corner of the detail screen, to enter the "Configuration" screen.

**Step3** Select "Plant configuration" to enter the corresponding screen.

**Step4** Fill in the plant information. See Table 3-7.

**Table 3-7** Description of plant parameters

Parameter	Description	End user	Distributor/installer
Plant name*	Name of the plant	√	√
Plant type*	Type of the plant Including residential PV plant, residential energy storage plant, commercial PV plant, and microgrid	√	√
Battery type**	Type of the battery Including lithium battery and lead-acid battery	√	√
Battery capacity**	Capacity of the battery	√	√
Distributor/installer code ***	Fill in the distributor/installer code, so that the distributor/installer can view and manage the plant.	√	√
Owner's phone or Owner's email*	The first time you fill in the end user's mobile phone number, the system will create an account for the end user and send a text message to the end user. The Distributor/installer creates plants for the end user and can manage the plants by default.	×	√
Power installed	Installed power of PV modules	√	√
Creation date	Time of constructing the plant	√	√
Grid-connection date	Time at which the plant starts feed-in operation	√	√
Grid-connection type	Type of grid-connection Including 100% feed-in, self-consumption, surplus electricity feeds to grid, zero export and off-grid	√	√
Time of connection	Time at which iSolarCloud starts to monitor the plant	√	√
Image	Upload plant picture	√	√
Country (region)*	Country (region) where the plant is located at	√	√
Plant time zone*	Time zone of the plant	√	√
Plant zip	Zip code of the place where the plant is located	√	√
Plant address*	Location of the plant, which can be added in two manners: Manual input: enter the plant	√	√

Parameter	Description	End user	Distributor/installer
	location manually Automatic obtaining: tap the icon  to automatically obtain current location or search for plant location, and tap "Confirm".		
Delivery zip	Zip code of the place of the receiver	√	√
Delivery address	Address of receiver	√	√

Note: \* indicates fields that must be filled in.

\*\* applicable only to residential energy storage plant and microgrid.

\*\*\* indicates fields that must be filled in for distributor/installer.


**Step5** Tap "Confirm" in the lower part of the screen to finish the plant configuration.

### Equipment configuration


You can add or delete communication devices on the device configuration screen.

- Add device

**Step1** Tap a plant listed on the home screen to enter the plant detail screen.

**Step2** Tap the icon  in the upper right corner of the detail screen, to enter the "Configuration" screen.

**Step3** Select "Equipment configuration" to enter the corresponding screen.

**Step4** Tap the icon  in the upper right corner of the screen.

**Step5** Scan the QR code on the communication module or manually input the serial number of the module. Tap "Confirm" after the QR code is recognized or the serial number input is correct.


**Step6** Tap "Confirm" to finish the adding operation.



It takes 1 to 10 minutes to establish communication connection after the communication device is added. The newly added communication device will be displayed on the device configuration screen.

- Delete device

**Step1** Tap a plant listed on the home screen to enter the plant detail screen.

**Step2** Tap the icon  in the upper right corner of the detail screen, to enter the "Configuration" screen.

**Step3** Select "Equipment configuration" to enter the corresponding screen.

**Step4** Select a to-be-deleted device, swiping left (iOS) or pressing and holding (Android).

**Step5** Tap the icon  (iOS) or "Delete" (Android), to delete the device.


### Device replacement

If plant device is faulty or it has been replaced on site, perform device replacement through the APP.

You can replace communication device or inverter on the device replacement screen.

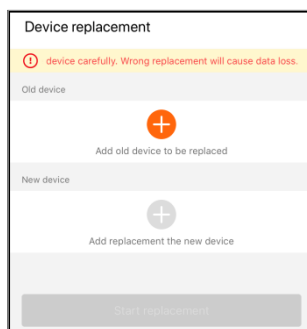
### Procedure


**Step1** Tap a plant listed on the home screen to enter the plant detail screen.

**Step2** Tap the icon  in the upper right corner of the detail screen, to enter the "Configuration" screen.


**Step3** Select "Device replacement" to enter the corresponding screen.

**Step4** Tap "Continue".



**Step5** Tap the icon  under "Old device" to enter the "Add old device" screen. You can add old devices in the following two manners:

- Switch the "Communication device" tab and "Inverter" tab, and select desired to-be-replaced device from the device list under corresponding tab.
- Enter the inverter name or communication device serial number into the searching box.

**Step6** Tap the icon  in the upper right corner of the screen after selecting the to-be-replaced device, so as to successfully add the device.

**Step7** Tap the icon  under "New device" to enter the "Add new device" screen.

**Step8** Scan the QR code on the communication module or inverter, or manually input the serial number of the device, to add the new device.

**Step9** Tap "Start replacement" after confirming that the old device and new device are desired ones. Device replacement is completed once the instruction delivered successfully.




When replacing an inverter, you can tick "Power generation compensation to new device", so that the total power generation of the replaced device will be used as a compensation value of the new inverter.

### Tariff

Tariff is used for revenue calculation. This section describes how to set specific electricity price and TOU tariff.

### Procedure

**Step1** Tap a plant listed on the home screen to enter the plant detail screen.

**Step2** Tap the icon  in the upper right corner of the detail screen, to enter the "Configuration" screen.

**Step3** Select "Tariff" to enter the corresponding screen. The electricity price can be set to a specific value or TOU tariff.

- Set electricity price
  1. Enter the price and select a price unit.
  2. Tap "Confirm".
- Set TOU tariff
  1. Select a price unit.
  2. Enable "TOU tariff".
  3. Tap "Add time segment", enter unit price, set start time and end time, and click "Confirm".
  4. Optionally, repeat the foregoing step to set TOU tariffs for multiple time segments within a day.
  5. Change unit price of other time segments which is 1 by default.
  6. Tap "Confirm".



Tap the time segment to enter the "Edit tariff" screen, on which you can modify and delete TOU tariff.

TOU tariff should cover 24 hours and be different in each time segment.

### 3.2.9 Viewing Fault Information

This section describes how to query fault types and view detailed fault information.

#### Procedure

**Step1** Tap "Fault" to enter the corresponding screen, where the screen displays the fault list whose types are "Fault" and "Alarm" by default.

**Step2** Enter fault name and select fault state, plant name, and fault type, to view corresponding fault list.

**Step3** Tap the fault name to view detailed fault information.


### 3.2.10 Me

This section describes Wi-Fi configuration, FAQs, and personal setting.

Tap "Me", to enter the corresponding screen. Description of related parameters is shown in Table 3-8.

**Table 3-8** Parameter description

Parameter	Description
Wi-Fi configuration	For details, refer to "3.2.3 Wi-Fi Configuration".
Code of upper level distributor/installer *	The code of upper level distributor/installer can be obtained from the upper level distributor/installer. Fill in the code of upper level distributor/installer, so that the upper level distributor/installer can view and manage your plants (except for shared plants).
FAQs	You can view frequently asked questions related to APP account, power plant, inverter, and communication module.
Setting	You can perform private settings. Tap "Account and Security" to bind the phone number or email address for retrieving password. You can change the password.

Parameter	Description
	<p>Tap "Privacy" to delete personal information or determine whether to receive notifications. If you turn on "Delete personal information", the system will delete the personal information, so that you cannot retrieve password, log into the system or edit plant via the personal information. Instead, you can only log into the system via user ID. If you turn off "Allow notifications", you will not receive system notifications after parameter setting.</p> <p>Tap "Report push" and "Add" to enter the corresponding screen. Tap "Add", fill in receiver e-mail address, select the desired type of reports ("Daily Report", "Weekly Report", "Monthly Report" and "Annual Report"), and tap the icon  in the upper right corner of the screen. You can view information such as revenue, power generation, energy conservation and emission reduction.</p> <p>Tap "Declaration" to view system declaration terms.</p> <p>Tap "About" to view system version and service line.</p> <p>Tap "Website" to jump to SUNGROW official website and view more information.</p>

Note: \* only applicable to distributor/installer account.

### 3.3 Wi-Fi Login (Near End)

In case of Wi-Fi direct login, a WiFi wireless communication module researched by SUNGROW is required.

The WiFi wireless communication module establishes a communication connection with the mobile phone through Wi-Fi, achieving near-end maintenance on the inverter. Users can view inverter information and set parameters through the APP.

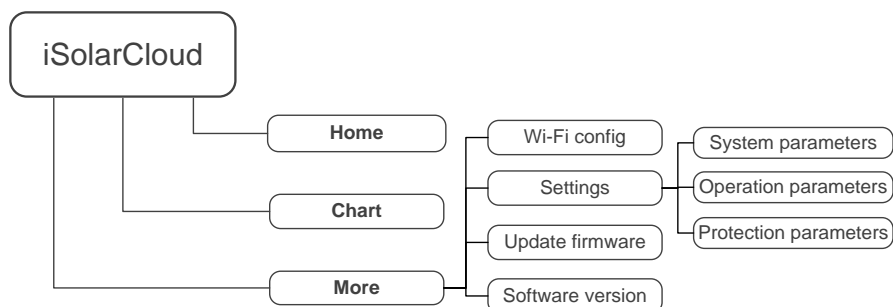


Parameters displayed may vary with inverter types, and actual screens prevail.  
Description is given by using PV inverter as an example.

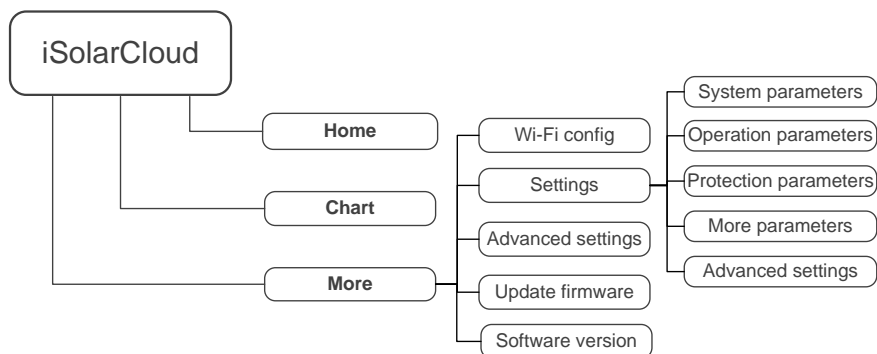
#### 3.3.1 User Permission

In Wi-Fi direct connection mode, the user permission distinguishes two types "user permission" and "admin permission", and operators can select one according to their job responsibilities.

User permission: intended for the end user who has the permission to view inverter real-time power and power generation, to start/stop the inverter, and to upgrade firmware, etc.



Admin permission: intended for the O&M personnel who not only has the "user permission" but also the permission to perform advanced settings.



### 3.3.2 Login

#### Prerequisites

- The AC side of the inverter is energized.
- The Wi-Fi function of the mobile phone is enabled.
- The mobile phone is within the coverage of the wireless signal of the WiFi module.

#### Procedure

**Step1** Enable the Wi-Fi function of the mobile phone, connect the phone to the Wi-Fi network named in the form "SG-WiFi module serial number" (the serial number is on the side of the WiFi module).

**Step2** Return to the login screen after a successful connection, tap "Login inverter", and select "Wi-Fi" on the next screen.

**Step3** User name is "User" by default. Enter login password and tap "Login".



Enter "user" or "admin" in the username bar according to the current user permission. For details, refer to "3.3.1 User Permission".  
Initial password is "pw1111".

**Step4** If initialization setting is not performed on the inverter, you will enter the quick setting screen of initialization protection parameter after successful login. After finishing the quick setting, tap

"Boot" in the upper right corner of the quick setting screen. The APP delivers the start instruction, and the inverter starts and operates.



**Fig 3-2** Initialization protection parameter

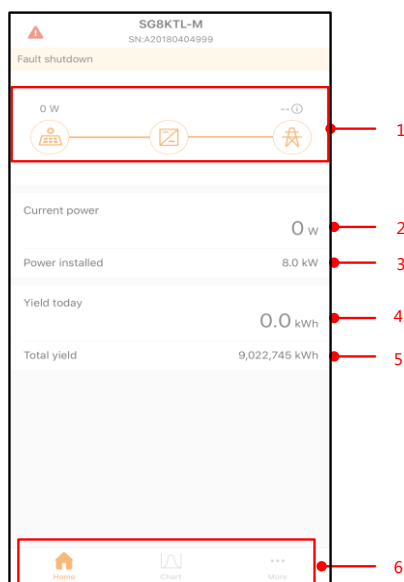
### 注意

**The parameter "country (region)" must be set to the country (region) where the inverter is installed at. Otherwise, the inverter may report errors.**

**Step5** You will enter the APP home screen after finishing the initialization setting.

### 3.3.3 Home

You will enter the home screen after login, as shown in Fig 3-3.



**Fig 3-3** Home

**Table 3-9** Function description of home screen

No.	Name	Description
1	Power flow chart	Indicate the PV power generation power, feed-in power, etc. The line with an arrow indicates energy flow between connected devices, and the arrow pointing indicates energy flow direction.
2	Current power	Present output power of the inverter
3	Power installed	Installed power of PV modules
4	Yield today	Today power yield of the inverter
5	Total yield	Accumulative power yield of the inverter

No.	Name	Description
6	Navigation bar	Including menus of "Home", "Chart", and "More"

If the inverter runs abnormally, the fault icon  appears in the upper left corner of the screen. Users can tap the icon to view detailed fault information and corrective measures.

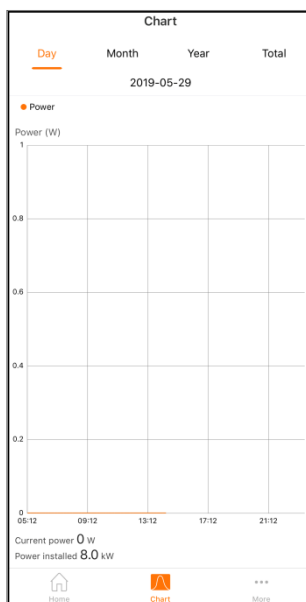
### 3.3.4 Chart

The APP displays power generation records in a variety of forms, including daily power generation graph, monthly power generation histogram, annual power generation histogram, and total power generation histogram.

**Table 3-10** Description of power generation chart

Parameter	Description
Daily power generation graph	Curve showing change of power between 5 am and 22 pm every day. (Each point on the curve corresponds to a power value).
Monthly power generation histogram	Display power generation of the current month and monthly equivalent hours.
Annual power generation histogram	Display power generation of the current year and annual equivalent hours.
Total power generation histogram	Display total power generation and total equivalent hours.

**Step6** Click "Chart" on the navigation bar to enter the screen showing daily power generation curve, as shown in the following Fig 3-4.

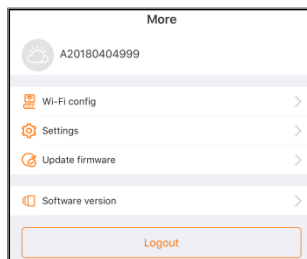


**Fig 3-4** Power curve

**Step7** Swipe the screen left to view monthly power generation histogram, annual power generation histogram, and total power generation histogram.

### 3.3.5 More (User Permission)

Tap "More" to enter the corresponding screen, on which you can perform Wi-Fi configuration, settings, update firmware, etc.



**Fig 3-5** More

Description of parameters on the "More" screen is as Table 3-11.

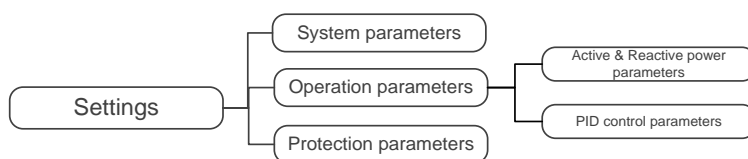
**Table 3-11** Parameter description

Parameter	Description
Wi-Fi config	Tap "Wi-Fi config". For details, refer to "3.2.3 Wi-Fi Configuration".
Settings	Tap "Settings" to set inverter system parameters, operation parameters and protection parameters.
Update firmware	Tap "Update firmware" to upgrade the firmware of the inverter. For details, refer to "3.3.5.2 Update firmware".
Software version	Tap "Software version" to view the version of the software.

#### 3.3.5.1 Parameter Setting

**Step1** Tap "Settings" to enter the parameter setting screen.

**Step2** You can set inverter system parameters, running parameters and protection parameters.



Parameter ranges and default values will update from time to time, and the actual screens prevail. If there are any questions, contact SUNGROW.

#### 3.3.5.2 Update firmware



This section describes how to upgrade inverter firmware.

##### Prerequisite

The user has the permission of upgrading firmware.

##### Procedure

**Step1** Obtain firmware upgrade package. You can obtain the upgrade package in the following two manners:

- Tap the icon  in the upper right corner of the login screen and select "Firmware download", to enter the "File list" tab by default. Select the desired upgrade package (.zip). Tap the icon . The downloaded package can be found in the "Downloaded" tab.
- Contact distributor/installer or SUNGROW to obtain the firmware upgrade package (.zip). Store the upgrade package in the specified folder.

**Step2** -Android: root directory /iscFiles

**Step3** -iOS: Connect the mobile phone to the computer through a data cable, find iSolarCloud APP via iTunes, iMazing, or iTools, and copy the upgrade package to the folder "Documents/update".

**Step4** Log into the iSolarCloud APP. Specifically, refer to "3.3.2 Login".

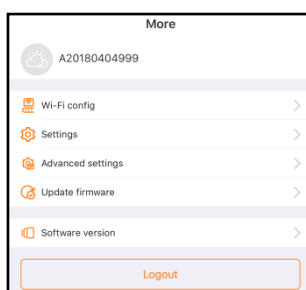
**Step5** Tap "More" on the navigation bar and select "Update firmware" to enter the corresponding interface.

**Step6** Select the desired upgrade package and tap "Confirm" on the pop-up dialog box.

**Step7** Wait for package uploading, after which the upgrade ends.

### 3.3.6 More (Admin Permission)

Tap "More" to enter the corresponding screen, on which you can perform Wi-Fi configuration, parameter setting, advanced setting, firmware upgrading, etc.



**Fig 3-6** More

Description of parameters on the "More" screen is as Table 3-12.

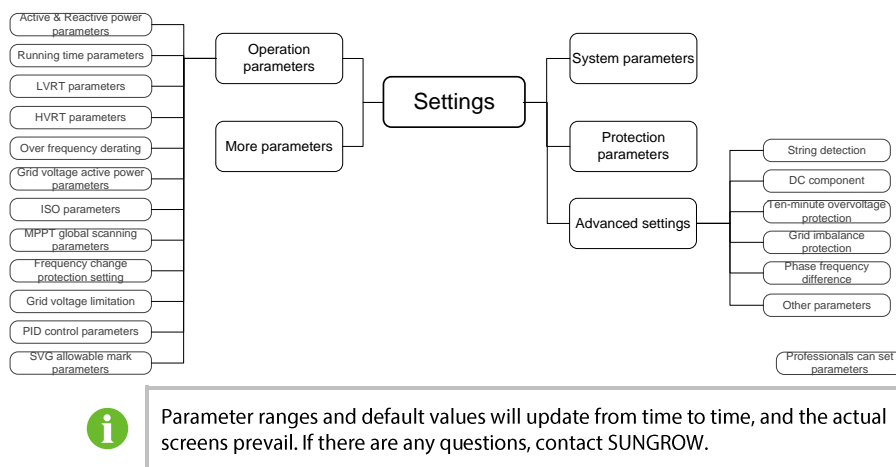
**Table 3-12** Parameter description

Parameter	Description
Wi-Fi config	Tap "Wi-Fi config". For details, refer to "3.2.3 Wi-Fi Configuration".
Settings	Tap "Settings" to set inverter system parameters, operation parameters and protection parameters.
Advanced settings	Tap "Advanced settings" to set "Parameter address", "Data type", and "Set value".
Update firmware	Tap "Update firmware" to upgrade the firmware of the inverter. For details, refer to "3.3.5.2 Update firmware".
Software version	Tap "Software version" to view the version of the software.

#### 3.3.6.1 Parameter Setting

**Step1** Tap "Settings" to enter the parameter setting screen.

**Step2** You can set inverter system parameters, operation parameters, protection parameters, etc.



### 3.3.6.2 Advanced Settings

**Step3** Tap "Advanced settings" to enter the advanced setting screen.

**Step4** Set parameter address, data type and set value.

**Step5** Tap "Send down instruction".

## 3.4 Bluetooth Login (Near End)

The WiFi wireless communication module establishes a communication connection with the mobile phone through Bluetooth, achieving near-end maintenance on the inverter. Users can view inverter information and set parameters through the APP.

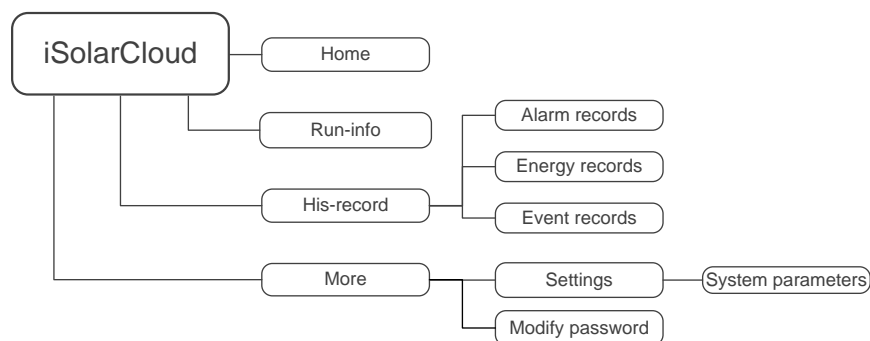


Parameters displayed may vary with inverter types, and actual screens prevail.

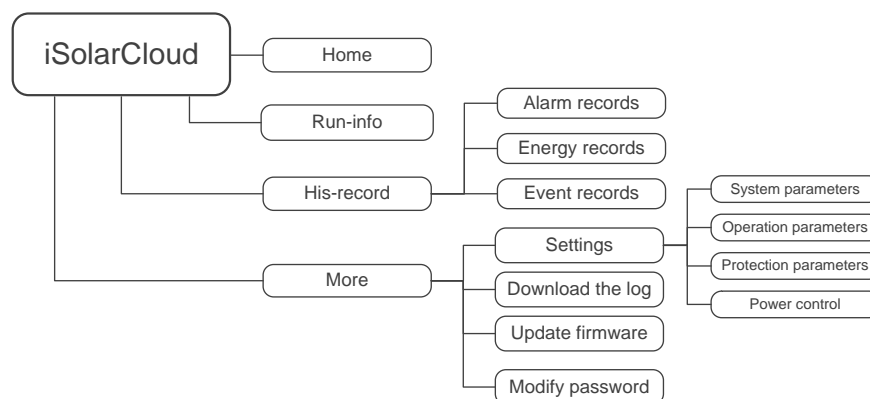
### 3.4.1 User Permission

In Bluetooth direct connection mode, the user permission distinguishes two types "user permission" and "admin permission", and operators can select one according to their job responsibilities.

User permission: intended for the end user who has the permission to view inverter running state and power generation, to start/stop the inverter, and to change password, etc.



Admin permission: intended for O&M personnel who has not only the "user permission" but also the permission to set running and protection parameters, upgrade firmware, download running logs, etc.



### 3.4.2 Login

#### Prerequisites

- The AC side of the inverter is energized.
- The mobile phone is within 5m away from the inverter and there are no obstructions in between.
- The Bluetooth function of the mobile phone is enabled.

#### Procedure

**Step1** Open the APP, tap "Login inverter", and select "Bluetooth" on the next screen, after which the Bluetooth search screen automatically pops up.

**Step2** Select the to-be-connected inverter according to the serial number on the nameplate on the side of the inverter. Alternatively, tap the icon "☐" to scan the QR code on the side of the inverter to establish Bluetooth connection.

**Step3** User name is "user" by default. Enter the login password and tap "Login".



Enter "user" or "admin" in the username bar according to the current user permission. For details, refer to "3.4.1 User Permission".

The initial password is "pw1111" which should be changed for the consideration of account security.

**Step4** If initialization setting is not performed on the inverter, you will enter the quick setting screen of initialization protection parameter after successful login. After finishing the quick setting, tap "Boot" in the upper right corner of the quick setting screen. The APP delivers the start instruction, and the inverter starts and operates.



**Fig 3-7** Initialization protection parameter

## NOTICE

**The parameter "country (region)" must be set to the country (region) where the inverter is installed at. Otherwise, the inverter may report errors.**

**Step5** You will enter the APP home screen after finishing the initialization setting.

### 3.4.3 Home

You will enter the home screen after login, as shown in Fig 3-8.




**Fig 3-8** Home

**Table 3-13** Function description of home screen

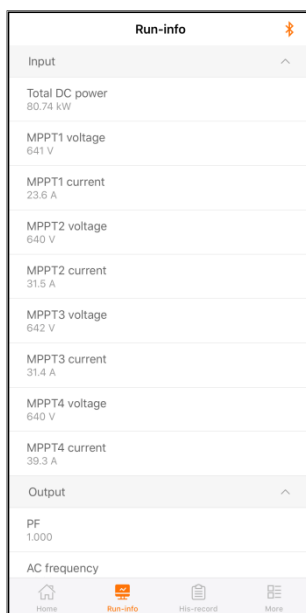
No.	Name	Description
1	Date and time	The system date and time of the inverter
2	Inverter state	The current operating state of the inverter

No.	Name	Description
3	Power flow chart	Indicate the PV power generation power, feed-in power, etc. The line with an arrow indicates energy flow between connected devices, and the arrow pointing indicates energy flow direction.
4	Power	Present output power of the inverter
5	Power yield	Today power yield and accumulative power yield of the inverter
6	Power curve	Curve showing change of power between 5 am and 22 pm every day. (Each point on the curve is the percentage of inverter current power to rated power)
7	Navigation bar	Including menus of "Home", "Run-info", "His-record", and "More"

If the inverter runs abnormally, the fault icon  appears in the lower right corner of the inverter icon on the power load chart. Users can tap the icon to view detailed fault information and corrective measures.

### 3.4.4 Running Information

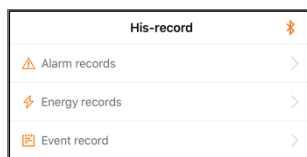
Tap "Run-info" on the navigation bar to enter the running information screen. Running information includes input, output, grid voltage, grid current, environment, and more.



**Fig 3-9** Run-info

### 3.4.5 History Record

Tap "His-record" on the navigation bar to enter the history record screen on which you can view alarm records, energy records and event record.



#### Viewing alarm records

- Step1** Tap "Alarm records" to enter the corresponding screen.
- Step2** Tap the icon "📅" to select a time segment and view records within this period.
- Step3** Select a record and tap it to view detailed fault information, including alarm level, occurrence time, alarm ID, and repair advice.

#### Viewing energy records

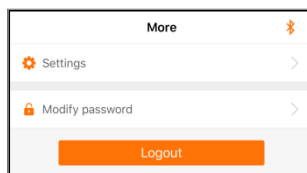
- Step1** Tap "Energy records" to enter the power curve screen.
- Step2** Tap the time bar "◀ 2019-03-13" on the top of the screen to select a time segment and view the corresponding power curve.
- Step3** Swipe the screen left to view daily power generation histogram, monthly power generation histogram and annual power generation histogram.

#### Viewing event record

- Step1** Tap "Event record" to view the event record list.
- Step2** Tap the icon "📅" to select a time segment and view event records within this period.

### 3.4.6 More (User Permission)

Tap "More" to enter the corresponding screen, on which you can set parameters and change password.



#### 3.4.6.1 Setting Parameter

- Step1** Tap "Settings" to enter the parameter setting screen.
- Step2** Tap "System parameters" to enter the corresponding screen on which you can send start/stop instruction to the inverter and view ARM version and MDSP version.

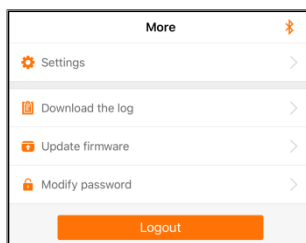
#### 3.4.6.2 Modify Password

- Step1** Tap "Modify password" to enter the corresponding screen.
- Step2** Enter new password and tap "Confirm" to finish changing the password, where the new password must consist of 6 characters, a combination of letters and digits.

### 3.4.7 More (Admin Permission)

Tap "More" to enter the corresponding screen, on which you can set parameters, download logs,

upgrade firmware, and change password.



Description of parameters on the "More" screen is as Table 3-14.

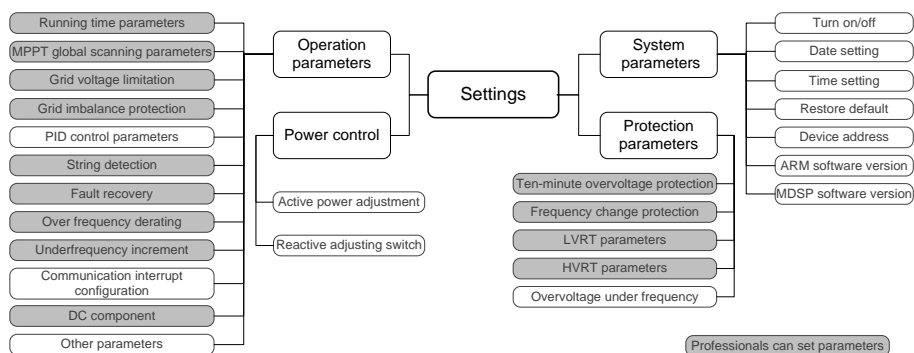
**Table 3-14** Parameter description

Parameter	Description
Settings	Tap "Settings" to set inverter system parameters, operation parameters and protection parameters, etc.
Download the log	Tap "Log download" to download general log and fault recording log.
Update firmware	For details, refer to "3.3.5.2 Update firmware". Note: Select the desired upgrade package (.sgu).
Modify password	For details, refer to "3.4.6.2 Modify Password".

### 3.4.7.1 Parameter Setting

**Step1** Tap "Settings" to enter the parameter setting screen.

**Step2** Set inverter system parameters, operation parameters, protection parameters, and power control.



Parameter ranges and default values will update from time to time, and the actual screens prevail. If there are any problems, contact SUNGROW.

### 3.4.7.2 Download the log

**Step1** Tap "Download the log" to enter the corresponding screen.

**Step2** Tap the icon "↓" to download the conventional logs and fault recording logs (.log file).

## 4 Appendix

### 4.1 Manual Description

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The content of the manual will be periodically updated or revised as per the product development. It is probably that there are changes in manuals for the subsequent module edition. Refer to the actual product, and obtain the latest version at [www.sungrowpower.com](http://www.sungrowpower.com) or from the sales department.

### 4.2 Contact Information

Should you have any question about this product, please contact us.

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