

User manual



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1 Brief Introduction

1.1 Purpose

This manual gives a brief introduction to the main functions of "AlpsCloud" APP account registration, plant creation, Wi-Fi configuration etc. Provide reference and help for uses to quickly familiarize themselves with the APP.

1.2 Scope

This manual is suitable for AlpSolarr users, pattern vendors and device maintenance personnel who use our device.



2 Install APP

2.1 IOS

Search "AlpsColud" in the App Store

2.2 Android

Search "AlpsCloud" in the Google Play Store

2.3 Scan the code to download





3 Account registration

3.1 Account registration

Users who use "AlpsCloud" for the first time need to register an account, click "Register Account" on [Login Page] to enter the registration page.

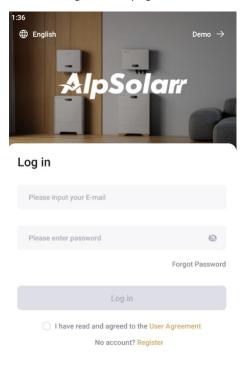


Figure 3-1 Account Registration

3.2 Fill in the Information

Enter a valid phone number or email address to receive the verification code. After completing the registration information, check the box in the user agreement to indicate that you have read and agree to the agreement.



1:38

<	Sig	ın Up	
	E-mail	Phone Number	
Please in	put E-mail		
Please in	put verification coo	le Get (Code
	ast one capital letter;	igits; Contain numbers a No spaces, Chinese or sj	
Please er	ter password		Ø
Confirm F	Password		Ø
	Sig	ın Up	
) I have read and agr	eed to the User Agreeme	nt

Figure 3-2 account registration



1.If you do not receive the verification code, check whether the email address is correct, whether the network is abnormal, and whether the verification code has been sent to the spam mailbox.

2. If the verification code is not received, please check whether the mobile phone number is correct, as shown in Figure 3-2.



4 Forget password

4.1 Enter forgot password

Click "Forget Password" at the lower right corner of the login window to enter the [Recover Password] page.

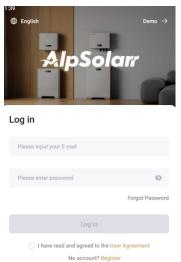


Figure 4-1 Forgot password

4.2 Forgot password

After completing the information on the [Retrieve Password] page, you can reset the new password.

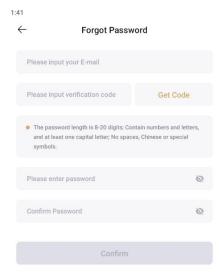


Figure 4-2 retrieve password



1.If your mobile phone number or email is disabled or you cannot receive the verification code, please contact.



5 Create plant

After logging in to AlpsCloud, you can create your own Plant and monitor the Plant operating status and power generation data in real time.

5.1 Add device

step:

1.Go to the [Plant List] page, click the "Create Plant" button to enter the [Create Plant] page.

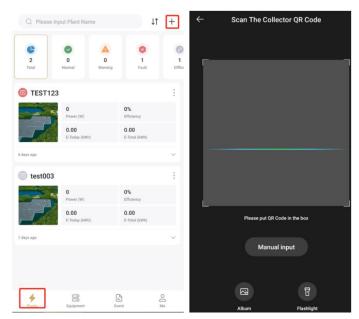


Figure 5-1 to create Plant

2.After entering the scanning code scanning interface, you can add the device by "scanning the QR code" or manually entering the "serial number" and "registration code" of the device, as shown in Figure 5-2.

:08	
←	Add Gateway
	Please check the serial number and registration code on the product label of the device
SN *	
Ple	ase input SN
Key *	
Ple	ase input Registration Key
	Next

Figure 5-2 add equipment



3. After entering the "Serial Number" (SN) and "Registration Code" (KEY) on the collector label cick Next, and then jump to create Powerstation page.



1.Please check the serial number and registration code of the device on the product label of the collector.

2.Check the serial number and registration code of the device on the product label of the collector.

5.2 Enter plant information

- 1. Entering a plant name that complies with the specification.
- 2. Input the correct installed capacity.
- 3. Select the correct grid connection date.
- 4. When selecting an address, make sure that the Plant address is correct (if you need to modify it, please click on the map to select it manually).
- 5. Confirm the time zone where the Plant is located (incorrect time zone may cause abnormal statistics).
- 6. Input the name of the person in charge of the plant.
- 7. Input the correct plant contact phone number.
- 8. After making sure the information is correct, click "Create".

	3,40
5:48	← Plant Information
← Plant Information	Please select the installation address
Profile	Time Zone *
Plant Name *	(UTC+08:00)Beijing,Chongqing,Hong Kong,Urumqi >
Please input Plant Name	
	Installer
Plant Photos	Please Input
Ó	
	Contacts
Installed Capacity (kWp) *	Manager *
Please input the total capacity of the installed s 2 ar panels	Please input Manager
Operating Date *	6
operating bate	Phone *
2024-03-28	Please input phone number 7
Address *	E-mail
Please select the installation address 4	Please input E-mail
Time Zone *	
(UTC+08:00)Beijing,Chongqing,Hong Kong,Urumqi 5 >	Creation Complete

Figure 5-3 create power plant information

You can click the "Complete Create" button or click "Configure Network" to operate the collector distribution network, or you can directly go to the personal center to configure the network for the collector.



1. The location service needs to be turned on, and the app needs to be authorized to use the location permission.



6 Collector network

Before using the app, you need to do a WIFI network configuration on your device. Here are the three ways to configure it.

6.1 Connect network by QR code

When connecting the device with the "scan code configuration" method, the steps are as follows:

1. Click the bottom button "Me" to select WIFI Network Configuration from the menu.

(¢)	← Wi-Fi Configuratio	n
youcai.xie@ligoo.cn	Scan QR Blu	* uetooth
Wi-Fi Configuration > Local parameter setting > % Mesh network configuration >	Ç. Hotspot	
 ➡ Language English > ♥ Personalization > ♥ Notification 		
Plants Equipment Event Me		



2.Select the "Scan code configuration" connection mode for the connection operation.

3. Scan the QR code on the device.





Figure 6-2 Scan the QR code of the equipment

- 4. Automatic filling of the collector serial number;
- 5. Click on the connection

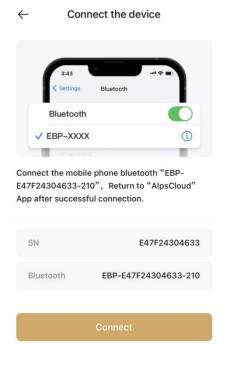


Figure 6-3 identifies the collector information



6. After connecting, jump to the WIFI connection interface, select the available WIFI, and enter the password to connect;

\leftarrow	Connect the device	← Config Device
• Cho	ose the Wi-Fi to connect to the gateway.	
Wi-Fi		
Ligoo	>	
Password	1	
Please	enter password	
		Configured successfully Congratulation! Configured Succesfully
	Confirm	Congratulation: Configured Successfully
		Confirm

Figure 6-4 Successful distribution network through scanning code



Preconditions: The Wi-Fi and location services must be enabled in advance. Ensure that the device is powered on and that the red LED lights are always on around the device.

6.2 Connect network by Bluetooth

When connecting a device using Bluetooth Find, the steps are as follows: 1. Click the bottom button "Me" to select WIFI Network Configuration from the menu.

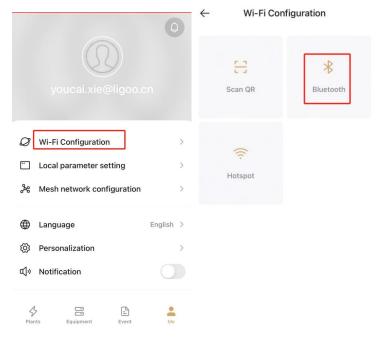


Figure 6-5 Distribution network through Bluetooth search mode



2. Click Start Find



Figure 6-6 Find the device

3. The APP searches for the Wi-Fi devices that can be configured around you and lists them as a list. Select a connected network that starts with "EBP-".

\leftarrow	Select Device		← Select Device
	se select the gateway you want to igure		Please select the gateway you want to configure
*	EBP-E47F24304633-211 SN******4633	all	8 EBP-E47F24304633-211 SN*****4633
			Connecting devices
	Refresh		Refresh

Figure 6-7 Connect to the collector

4. After the connection, jump to the WIFI connection interface, select the available WIFI, and enter the password to connect;



\leftarrow	Connect the device		\leftarrow	Config Device
Choose	the Wi-Fi to connect to the gateway.			
Wi-Fi				
Ligoo		>		
Password				
Please en	ter password	0		
			Config	gured successfully
	Confirm		Congratul	ation! Configured Succesfully
				Confirm

Figure 6-8 Successful distribution network via Bluetooth

6.3 Connect network through hotspots

When connecting a device using Hot Find, the steps are as follows:

1. Click the bottom button "Me" to select WIFI Network Configuration from the menu.

٥	← Wi-Fi Configuration
youcai.xie@ligoo.cn	Scan QR Bluetooth
✓ Wi-Fi Configuration > ✓ Local parameter setting > % Mesh network configuration >	(c) Hotspot
 ➡ Language English > ♠ Personalization > ♠ Notification 	
Plants Equipment Event Me	

Figure 6-9 Distribution network through hotspot



2. Click Start Find



Figure 6-10 start looking up

3.Click to set and select the network starting with "EAP- ******* as the last 5 digits of the device serial number, the password is 12345678, and jump to the "Select Device" interface after connecting.

	Settings Wi-Fi	
← Config Device		
	Wi-Fi	
3:43	✓ Ligoo-2.4G Weak Security	🔒 🤶 i
Settings WLAN Edit	MY NETWORKS	
✓ EAP-XXXX 🔒 🗢 j	EAP-04633	🔒 🗢 🚺
Please click the "Go Setting" button below, and	Ligoo	🕯 🤶 🚺
select the Wi-Fi hotspot of "EAP-*****", then use the password "12345678" to connect to the	林檎雨由莉	11 4G 🔳
secondary hotspot, and then return to the APP	OTHER NETWORKS	
Wi-Fi EAP-****	AP_3508171977	🔒 🤶 🚺
Password 12345678	BESS_6758	● ? (j)
	fengqun	🕯 🤶 🚺
Go Setting	Other	

Figure 6-11 Connect WIFI

4. Select the router to want to connect to the gateway, enter the router password and click OK.



5. Wait for the connection, prompt the connection "successful", click "confirm" to return to the home page.

\leftarrow	Connect the device		\leftarrow	Config Device
Choose	e the Wi-Fi to connect to the gateway.			
Wi-Fi				
Ligoo		>		
Password				
Please ei	nter password	2		igured successfully
	Confirm		oongrat	
				Confirm

Figure 6-12 Successful distribution network

\triangle	1. If the connection fails, click the "Retry" button to check the Wi-Fi password
\bigtriangleup	2. Whether the gateway is within the signal coverage range of the router.

6.4 Connection failed

During the connection process, click the "Retry" button to check the Wi-Fi password or check whether the gateway is within the signal coverage of the router.



7 Plant management

If you need to check the current status, equipment, and abnormal information of a Plant, the specific operations are as follows.

7.1 Enter plant overview

The current state, weather information, energy flow chart, power generation chart and other information can be viewed in the plant [Overview] page.

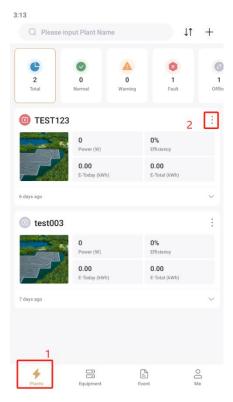


Figure 7-1 Plant list

step:

1. Select the Plant you want to view in[Plant list] ,and click the corresponding Plant name to enter

the Plant [Overview] page.

2."Energy Flow Diagram".

3."Use for Power Generation".

4."Generation Chart".

5.weather Information" and "Environmental Benefits".



← Virtua	power station	← Virtual power station	Virtual power station
Overview Equipment	Event Layout	Overview Equipment Event Layout	Overview Equipment Event Layout
203		Power Generation	\$2,634.5
Power (W)	4.1% Efficiency	Day Month Year To	tal Total return
Capacity (kWp)		2024-03-28	\$3,800.0
16.90 E-Today (kWh)	809.70 E-Month (kW/h)	(W) 5.899	Total investment
2320.50 E-Year (kWh)	21.95 E-Total (MWh)	4,719	Energy Conservation
24.0 Covercut Louds	# 07:05 + 18:57	3,540 2,360	21.9 t © 577.4 Kg © 502 reduction
203W	203W	1,180 0,	12 Trees A 7201.0 Kg Standard coal reduction
			28 Weather Info
ow on	D ow	• PV 2/	03 W 😵

Figure 7-2 Plant overview

1.2.Enter device page

On the[Overview]page of the power plant, click the "Device" menu to switch to the "Device" page, where you can view all the devices in the power plant. In the [Device] page, click the operation "..." button in the upper right corner, you can set an alias for the device, and you can also configure parameters for the inverter. The steps are as follows.

3:17			
\leftarrow	TEST	F123	
Overview Equip			
ROG2MBE	330705000	3	
Power (W)	Wh)		
0.0		0.00 E-Total (kV	/h)
E47F24304	1655		
B ROG2MBE	330705000	5	:
	-	-	
	Device	Alias	
	Setting	Params	
	Del	ete	

Figure 7-3 Plant equipment

1.3. Enter event list

On the [Overview] page of the Plant, click the "Event" menu to switch to the [Event] page.



Click any "event", and you can view the abnormal information of the current Plant on this page.

Г

← G1_FW_TEST Overview Equipment Event Lay	
B W1021: CAN1 Comm Fault	
SN	ROG1MBB307050048
Generation Time: 2024-05-08 05:38:22	
🗐 W502: No PV	
SN	ROG1MBB307050048
Generation Time: 2024-05-08 05:38:22	
W603: BAT Disconnected	
SN	ROG1MBB307050048
Generation Time: 2024-05-08 05:38:22	
W611: BAT1 Disconnected	
SN	ROG1MBB307050048
Generation Time: 2024-05-08 05:38:22	
🗐 W619: DC1 UnderVolt	

Figure 7-4 Event Details

7.2 Delete plant

When you need delete a plant. Operation steps are as follows.

1. Click the bottom button "Plant", then click the "." in the upper right corner of the plant to see the options.

2. Select the "Delete" option in the red box and follow the prompts to complete the deletion.

Q. Please in	iput Plant Ni	ume	1	1 +
C 2 Tend	0 Normal	0 Warring	0 1 Fut	0
TEST12	3			Г
	0 Power (W)		0% Efficiently	
1	0.00 E-Tectary (Jos	10	0.00 E-Tatat (kWh)	
6 days age				
test003				
-	0 Power (W)		0% Efficiency	
Ľ		8	7	7
Edit		Share	Nav	igate
t)	٦	Û		
Transfer		Delete		

Figure 7-5 Deleting Plant

3. Confirm to delete.



3:19 Q Please	input Plant Na	me	↓↑	+
C 2 Total	© 0 Normal	0 Warning	8 1 Fault	e n off
O TEST1	23			:
Enter 6 c	lant data canno	delete the pl t be recovered a e if you confirm	fter deletion.	×
	Cancel	Co	onfirm	
	0.00 E-Today (kWI		I .00 -Total (kWh)	
7 days ago				~
4 Plants	Equipment	Event		O Me

Figure 7-6 Confirm deletion



1. Only the operator who has the management authority of the deleted plant can delete the plant.

2. The plant cannot be restored after being deleted. Please confirm before deleting!

7.3 Edit plant

When the information of a plant needs to be modified. Operation steps are as follows. 1.Click the bottom button "Plant " and click the . .." button in the upper right corner of the Plant to view the operation options..

2.Click the "Edit" button to enter the [Edit Plant] page to complete the modification of Plant information.

3. Enter the content that the Plant needs to modify, and click the "Save" button after completion.

4. After the input information is correct, the page prompts "edited successfully".



					2:31	
Q Please I	nput Plant Nam	le	↓↑	+	← Edit Plant	Save
C	0	4	0	6	Profile	
2 Total	0 Normal	0 Warning	0 Fault	2 Officia	Plant Name *	
				_	TEST123	
TEST12	3				Plant Photos	
	0 Parware (W)		0% Efficiency			
- Pa	0.00 E-Tomy (KWh)		0.00 E-Totai (kWh)			
iya ago				~	Installed Capacity (kWp) *	
test003				÷	10000	
-	O Pownr (W)		0% Efficiency		Operating Date *	
					2024-03-22	>
Ľ		~°°	\bigtriangledown		Address *	
Edit	J	Share	Navigat	e	56 Tanglin Rd, Singapore 247964	0
与		Ū			Time Zone *	
Transfer	1	Delete			(UTC+08:00)Beijing,Chongqing,Hong Kong,Urumqi	>

Figure 7-7 Editing plant

 \wedge

1. Editing plant function requires management permission for the edited plant.

7.4 Share plant

You can share a plant by "Share Plant" function when you need to share it with others. Operations are as follows.

1. Click the bottom button "Plantt", and click the ".."button in the upper right corner of the Plant to view the operation options.

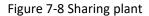
2. Select "Share" to enter the [share Station] page.

3. Shared power plants can be shared with other accounts using two permissions.

4. Enter the AlpSolarr account of the shared person to complete the sharing.



:25					2:25		
	se input Plant N	ame		l↑ +	÷	Share Plan	t Manag
C 2 Total	© 0 Normai	0 Warning	0 Fault	2 01111		nt of the shareee must be a r (E-mail or mobile phone nun	
				1.00	Sharer		
TEST	123				abc123.con	n	0
	0 Power (W)		0% Ethciency		Permission		
	0.00 E-Today (M	an)	0.00 E-Total (XWN)			As sitor	Pg Manager
3 days ago				~			
test00	03			:			
	O Power (W)		0% Efficiency			Done	
and the second	Page (w)	_	Entowiney				
		å	1	~			
Edit	l	Share	Nav	igate			
ţ		Ū					





1. The account of the shared person is the registered account of AlpSolarr (email or mobile phone number in mainland China).

7.5 Transfer of plant

When you need to transfer a plant to others, you can transfer the plant to others through the transfer plant function. The operation method is performed as follows.

1. Click on the "..." operation to view the options.

2.Select the "Transfer" option in the red box and complete the deletion as prompted.

11:09			
		t1	+
HunterTes	t		:
	0 Power (W)	0% Efficiency	
	0.00 E-Today (kWh)	0.00 E-Total (kWh)	
15 days ago			~~
💿 力高测试时	自站		:
	0 Power (W)	0% Efficiency	
	0.00 E-Today (kWh)	0.00 E-Total (kWh)	
16 days ago			~
Ľ	80	P	
Edit	Share	Naviga	ite
t)	回		
Transfer	Delete		

Figure 7-9 Transfer of plant



3. Enter the transferred account and click done.

11:10		
\leftarrow	Transfer Plant	
The accord	ount must be registered	
Transferee		
1234567	@qq.com ♥	8
	Done	

Figure 7-10 Confirmation of transfer



8 Inverter management

8.1 Enter inverter list

Click "equipment" at the bottom to enter the inverter list page, click an inverter to view the detailed information and working data of the inverter.

Inverter T	Gateway	Battery		Q
9 Total	2 Normal	0 Warning	2 Fault	5 Offlin
B ROG2	MBB3070	50007		
0.0 Power (W)		0.00 E-Today	(kWh)	
Update Time: (UT	C+00:00)2024-03-	28 04:28:02		\sim
C ROG2	MBB31214	40010		:
0.0 Power (W)		0.00 E-Today	(kWh)	
Update Time: (UT	C+00:00)2024-03-	28 07:09:18		\sim
ROG21	MBB3070	50005		:
0.0 Power (W)		0.00 E-Today	(kWh)	
Update Time: (UT	C+08:00)2024-03-	28 15:04:28		\sim
4 Plants	Equipme	ent Ev		O Me

Figure 8-1 Inverter List

8.2 Parameter settings

Click "..." in the upper right corner of the device to set the alias, parameter parameters, delete (once deleted, cannot be restored) and other operation functions.

step:

1. Click the "..." button to view the operation options of the inverter.

2. Select "Parameter Settings".

- 3 .Go to the "Grid Settings" page.
- 4 .Enter the parameter information and click the "Save" button in the upper right corner.

4. After the device command is issued successfully, the content shown in the figure above will be prompted.



Inverter v	Gateway	Battery		Q		
9 Total	2 Normal	0 Warning	2 Fault	S offic		
	MBB30705	0004		:		
0.0 Power (W)						
Update Time: (UT)	C+00:00)2024-03-2	28 06:17:08		~		
B ROG2	MBB30705	50004		:		
0.0 Power (W)		0.00 E-Today (kV	Vh)			
Update Time: (UT	Update Time: (UTC+00:00)2024-03-28 07:10:41					
Setting Params						
Set Alias						
Delete						

Figure 8-2 Parameter setting



 The remote operation of the inverter requires the corresponding operation authority to operate.
 Functions related to parameter configuration of the inverter can only be operated with the support of the inverter, and the current state of the inverter to be operated is "online" state.



8.3 Delete inverter

Select the inverter to be deleted in the inverter list, click the "..." button in the upper right corner of the inverter, and follow the prompts to complete the deletion.

3:24 Inverter ▼	Gateway	Battery		Q
9 Total	2 Normal	0 Warning	2 Fault	S Offlin
ROT2	MBB307050	0004		:
0.0 Power (W)		0.00 E-Today (kW	h)	
Update Time: (UT	°C+00:00)2024-03-21	8 06:17:08		~
C ROG2	MBB30705	0004		:
0.0 Power (W)		0.00 E-Today (kW	h)	
Update Time: (UT	C+00:00)2024-03-21	8 07:10:41		~
	S	etting Params		
		Set Alias		
	C	Delete		

Figure 8-3 Delete inverter

8.4 Inverter details

Inverters are divided into "energy storage", "grid connection" and "micro-inverse". First, view the "energy storage" type of equipment in the inverter list page.

1. Click the inverter "type" button to view the "energy storage" device.

2. Click the inverter in the red box to enter the details page.

3. After entering the inverter more page, you can see the inverter "output", "Input", "current", "voltage", "frequency", "temperature" related information.



3:27 Inverter ▼ Gateway Batt	ery	Q	Inverter v	Gateway Batt	ery	Q
All		\checkmark	0.0 Power (W)		0.20 E-Today (kWh)	
Grid Connection			Update Time: (UT	C+02:00)2024-03-28 09:04:	33	~
Three phase hybrid						
Single phase LV Hybrid			22020	86033		
Single phase HV Hybrid			0.0		0.00	
Three phase LV Hybrid			Power (W)		E-Today (kWh)	
Three phase HV Hybrid			Update Time: (UT	C+02:00)2024-03-27 22:03:	22	\sim
Micro Inverse			20112	39066		
0.0 Power (W)	0.00 E-Today (kWh)		0.0 Power (W)		0.00 E-Today (kWh)	
Update Time: (UTC-04:00)2024-03-28 03:27	51	~	Update Time: (UT	C-05:00)2024-03-28 03:24:	27	\sim
2208142326			🕲 661F5	02005JB009		
0.0 Power (W)	15.30 E-Today (kWh)		103.0 Power (W)		16.90 E-Today (kWh)	
Update Time: (UTC+02:00)2024-03-28 05:38	:27	~	Update Time: (UT	C+10:00)2024-03-28 18:24:	33	~
Plants Equipment	Event	O Me	Plants	Equipment	Event	O Me

Figure 8-4 Inverter Type

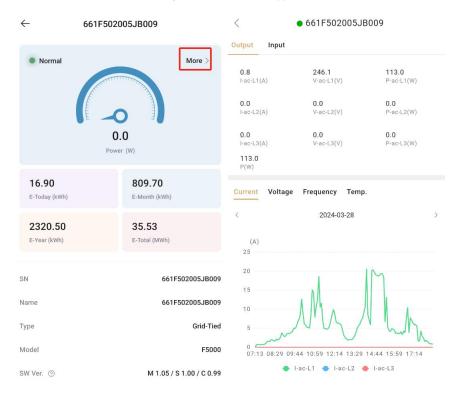


Figure 8-5 Inverter Details



9 Gateway management

On the collector management related pages, users can view all collectors under their account, and manage and unbind them.

9.1 Collector Details

step:

- 1.Click on a collector to go to the details page.
- 2. view collector details.

297057	← E4A0122	Q	ttery	Gateway ▼ Bat	Inverter
	• Normal	3 Offline	Cormal		C 17 Total
				12297057	E4A0
finch	Goldfi		all Signal Strength		Goldfinct Device Name
2024-03-28 11:02:32	Login Time	~		24-03-28 11:02:32	Update Time: 20
12345678	Connection Password ③			12135958	E4A0
/47.244.29.210:47302	Login IP		ill Signal Strength		Goldfinct Device Name
E4A012297057	SN	~		24-03-28 10:03:05	Update Time: 20
	Name			12040374	1 E470
YBP6UWSY	Key		a <mark>ll</mark> Signal Strength	'S	Magpie Device Name
Virtual power station	Plant Name	\sim		24-03-28 04:09:56	Update Time: 20
	Customer	Do	-		\$
energy@synerlution.com	Owner	Me	Event	Equipment	Plants

Figure 9-1 Collector Details



9.2 Unbind collector

Select the collector to be unbound in the collector list, click the "..." button in the upper right corner of the collector, and follow the prompts to complete the unbinding.

Inverter Gateway	▼ Battery	Q		
71 Total	5 6	3 16 Time		
E47F2430466	53	:		
magpie Device Names	ill Signal Strength			
Update Time: 2024-03-28 13:1	7:21	~		
E47F2430465	57	:		
magpie Device Names	ال Signal Strength			
Update Time: 2024-03-28 14:0-	4:47	~		
E47F2430465	55	:		
Change acess code				
Unbind				

Figure 9-2 Unbinding the collector



1.If the collector needs to be removed from a Plant, it is necessary to remove the binding relationship between the collector and the local Plant. The specific operation is as follows: Select the collector to be unbound in the [collector List] page, and click the operation button "..." Select "Unbind" in the pop-up menu, and complete the unbind operation according to the prompts.



10 Event information

Click "Event" at the bottom to enter the event list page, you can view the device event information, and you can select the event type to view the details according to your customization.

Step:

- 1. Click on an event at random to enter the event details page.
- 2. view event details.

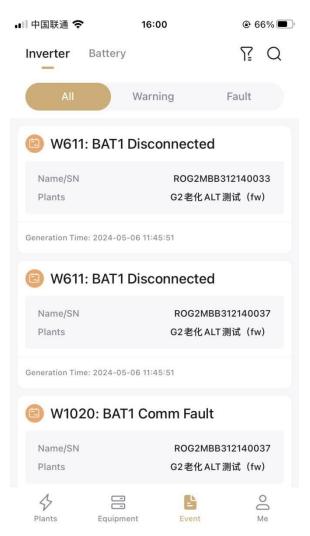


Figure 10-1 Event Information



11 Personalization

11.1 Language Switch

Click the "Me" button at the bottom, enter the personal center, and choose to switch languages.

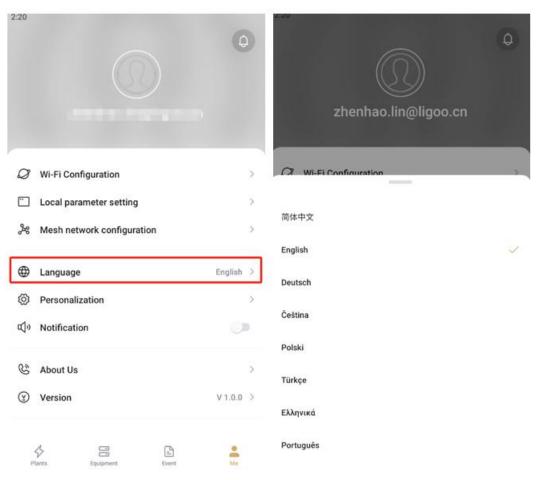


Figure 11-1 Language switch



11.2 Preferences

1. Click the "Me" button at the bottom to enter the Personal Center and select Preferences.

2. select a temperature unit.

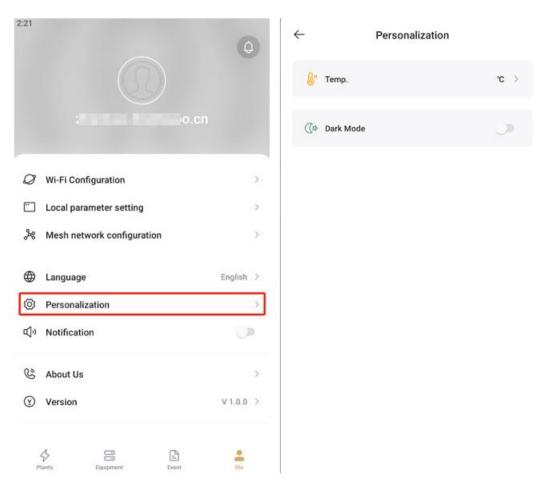


Figure 11-2 Preferences



12 Parameter Description

ltem	Field name	describe	
	BMS charging voltage	V-Charge-BMS	
	BMS Charging limit current	I-Charge-Limit-BMS	
	BMS discharge voltage	V-Discharge-BMS	
	BMS Discharge limits current	I-Discharge-Limit-BMS	
	BMS temperature	T-BMS	
	BMS Voltage	V-BMS	
	BMS current	I-BMS	
	volume	Capacity	
Battery	Total charging amount	Total Charging	
	Total discharge	Total Discharging	
	Daily charging volume	Today Charging	
	Daily discharge	Today Discharging	
	Battery SOC	SOC	
	power of batter	P-bat	
	Battery temperature	T-bat	
	battery voltage	V-bat	
	battery current	I-bat	
	Total electricity consumption	Cumulative Consumption	
	Daily electricity consumption	Daily Consumption	
Load	Total load power	P-load	
	load power L1	P-load-L1	
	load power L2	P-load-L2	
	alternating-current 1	I-grid-L1	
	alternating-current 2	I-grid-L2	
	alternating-current3	I-grid-L3	
	Built-in power1	P-Internal-CT-L1	
	Built-in power2	P-Internal-CT-L2	
	Total purchase of electricity	Total Import	
	Total electricity sold	Total Export	
Grid	Buy electricity every day	Import	
	Electricity sold every day	Export	
	Total power of the grid	P-grid	
	Grid voltage L1	V-grid-L1	
	Grid voltage L2	V-grid-L2	
	Grid voltage L3	V-grid-L3	
	Power grid frequency	F-grid	
	AC_TEMP	AC_TEMP	
Inv	DC_TEMP	 DC_TEMP	



	I-ac-1	I-ac-1
	I-ac-2	I-ac-2
	PV power	P-pv
	V-ac-1	V-ac-1
	V-ac-2	V-ac-2
	Generator power	P-Gen
	Micro inverse power	P-Micro-Inv
	Total output power	P-Inv
	Inverter temperature	T-Inv
	frequency	F-ac
Series	gross generation	Total Production
	Daily electricity generation	Daily Production
	Group string voltage 1	V-pv-1
	Group string voltage 2	V-pv-2
	Group series current 1	l-pv-1
	Group series current 2	I-pv-2
Motor	External power 1	P-External-CT-L1
Meter	External power 2	P-External-CT-L2