

SolisCloud Monitoring System User Manual - Owner

Ver 2.0

Ginlong Technologies Co., Ltd.

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1. About the manual

1.1 Description of Copyright

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1.2 Contents of the manual

This manual introduces the functions and operating procedures of the SolisCloud platform, making it convenient for users to operate and manage the SolisCloud platform, and meeting their usage needs.

1.3 Scope of application

SolisCloud is suitable for users who have purchased Solis GPRS/4G, WIFI, LAN, RF-Link stick and box data collectors. SolisCloud can be logged in through the APP or Web server to v i e w t h e d a t a o f P V plants, which is uploaded and monitored by the data collectors. It can be used to monitor the PV plant, so as to manage and analyze the power plant data visually.

1.4 Utilization requirements

Website:www.soliscloud.com;

The following points should be noted when visiting the website:

1. The browser compatible with IE browser V9.0 version or above, for 360 browser is V3.0 version or above;

2. The system resolution requires 1920×1080 for best effect.

Mobile Apps: SolisCloud

Download method: Search for "SolisCloud" in the application market or download by scanning the QR code below.



1. About the manual

1.5 Readership orientation

This manual is intended for professional technicians and users who access, manage, operate and maintain the SolisCloud Platform. It requires a certain degree of network knowledge and familiarity with the company's related products.

2. Platform guide

2.1 Description of the platform

2.1.1 Solis Home/Solis Pro

Solis Home/Solis Pro is the first generation PV plant monitoring and management system of Solis. Solis Home is mainly designed for owners to observe the daily operation of PV plants, while the Solis Pro is mainly designed for investors such as distributors and installers to achieve full lifecycle management of power plants and maintain their continuous and stable operation, including intelligent management of power plant operation and maintenance, remote monitoring of device, etc.

2.1.2 SolisCloud

SolisCloud is Solis's second-generation PV plant monitoring and management system, which combines the first-generation platform login entrance into one, identifies different IDs such as organizations and owners to log in and manage. It's a new generation of PV intelligent monitoring operation and maintenance system for the whole world, integrates real-time monitoring, accurate message pushing, intelligent alarm, efficient O&M, remote upgrade and control, large visual screen and statistical analysis. It can monitor the operation status of inverters in real time, automatically calculate the power generation and efficiency of both plants and equipments, and can quickly locate the faulty and assist O&M personnel to quickly complete on-site vacancy elimination work.

2.2 User identity

2.2.1 I am an owner-user of Solis Home Edition

The first time you use SolisCloud platform, enter the account and password of Solis Home Edition to log in the platform, in order to maintain the consistency of the use of data, it will form the same account and password and data as the old platform to use SolisCloud, Solis Home Edition data will be displayed in the account within 2 hours.

2.2.2 I am an owner-user of SolisCloud

You can directly select the owner's identity registration account on the SolisCloud platform. For specific steps, please see 3.1 Registration for detailed operation.

3.1 Registration

To enter SolisCloud platform for the first time, you need to register first, and you can log in only after you have SolisCloud account.

The specific steps are as follows:

1. Open the browser and type "www.soliscloud.com" in the address URL, press the "ENTER" key to enter the SolisCloud login interface and click 【 Register now 】.



2. When registering as a owner, select 【 Register owner 】.

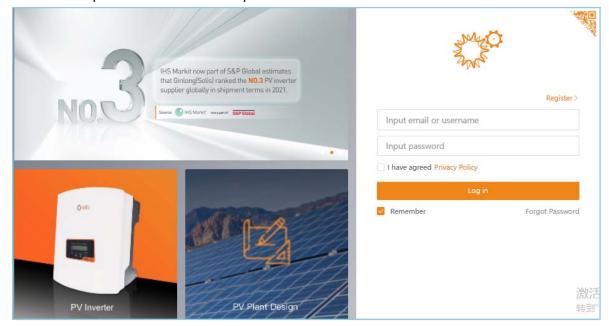
Solis Cloud	Registration		Log in >
	?		
	Organization Registration	Owner Registration	
	Installer Dealer	Plant Owner	
	l		

3. Fill in the correct information on the registration page, use the mailbox to register, after filling out the information, check the box to read and agree t o the user privacy agreement to complete the registration.

Owner Registration	n		Log in >
* Email	Input email		
* Vcode	Input verification code	Verification code	
* User Name	Enter Username		
* Password	Input password	inger.	
	Password Strength:	•	
* Confirm Password	Enter password again	b _{PT} 4	
* Time Zone	(UTC+08:00) PRC	~	
	I have agreed Privacy Policy		
	Register		

3.2 Log in

For users who have completed registration or already have a SolisCloud account, enter the email or username used during registration and fill in the password to log in. You can check the "remember" option to remember the password.



3.3 Retrieve password

If a user forgets their password, they can retrieve it through the 【Forgot Password 】 option. The specific steps are as follows:

1. Click [Forgot Password] to enter the password retrieval interface.



2. Retrieve it through the email you used at the time of registration. Enter the verification code and click "next". Note that the email entered must be consistent with registration.

Input email Verification code Input verification code Next		
Input verification code		
Input verification code		
	Input email Verification code	Input email
Next	Input verification code	Input verificati
Next		
Next		
	Next	

3. Set the new password and confirm the new password again, and click [Done] to enter the platform home page.

Find PW		Log in >
* New Password Input	new password	
Passwor	d Strength: 🔤 👘 🔞	
* Confirm Password Input	new password again here	
	Done	

3.4 Add a power plant

After logging in to SolisCloud platform for the first time, users need to add a power plant to manage it. Click "add power plant" to enter the power plant creation interface.

and the second	solis								MSG 🤅	Help 🕅	F	👤 demo a	account 🔻	Í
	Overview	Plant Overv	iew C									ſ	Add Plant	
爭	Plant Overview	👩 Current Po	ower	💶 Daily Y	ield		🛗 Me	onthly Yield		۲	Total Yiel	d		
۵ ا	Device Overview	O w Installed Capacit	ty: 111kWp	0 kWh Daily Earning	: OUSD		O kWI Monthly	h Earning : OUSD			kWh I Eaming :	0USD		
® 88		Plant List	Plant Location						Search f	or Plant Na	ime/Ad	Search	Export	
		Total(0) Plant State	Online(0) Plant Name ÷	 Alarm(0) Owner [‡] 	Offline(0) Daily Yield ²	Total Y	ield 🗘	Today Full	Current Power	÷	Installed Capacity		ilter ~	
					v v	St.	2	7			數活 Win ^{美到"设置"}	ndows 以激活 Wind	dows。	

3.4.1 Power plant creation Interface

The interface for the creation of power plant is divided into: Basic information, tariff management, associated account, more information.

🗘 solis		💬 MSG 🔞 Help 🖻 demo account 🔹
< Back	Add Plant	
🕀 Add Plant		
٥	6 Basic Information 2 Tariff Management 3 Associated Account 2 3 More Information	
國	* Plant Name	
	Input your plant name 2-60 digits	
۵	* Plant Type	
86	Select plant type	
	* Installed Capacity	
	Enter total module capacity kWp	
	* Area © Get map location	
	Plant Address	
	Input detailed address	
	* Time Zone	
	Select time zone	
	* Currency	
	USD V	
	Organization Code⊕	
	Organization Code Search	
	Datalogger SN	
	Add datalogger SN 📀	激活 Windows
		转到"设置"以激活 Windows。
	Cancel Next	

3.4.1.1 Plant basic information

Required:

[Power plant name] customize the name of the power plant within 2-60 bits.

[Total component capacity] the total installed capacity of the components of the power plant.

[Area] the construction area of the power plant can be selected by map positioning.

[Detailed address] the detailed address of the power plant, if the previous step through the map positioning, the system will automatically fill in the detailed address.

[Time zone] the time zone where the power plant is located.

[Currency] the type of currency used in the area where the power plant is located.

Optional:

[Collector SN] Communication stick / box SN number.

[Power station type] the selected power plant types include: residential, industrial and commercial, utility PV station, poverty alleviation PV plant, energy storage power plant. [Organization code] this function can be associated with the organization after the owner creates the power plant, which is convenient for the organization to monitor the O&M of the power plant in the later stage. The specific operation steps are as follows:

Add it in [add power plant] or [modify power plant Information], click the "search" button on the right side of "Organization Code", enter the associated organization code, click "search" to confirm the associated organization information, and click "Confirm" to complete the association.

Search organization code		×
Organization Code/E-mail of director		Search
	Cancel	Confirm

After the association is successful, [Organization code] displays the corresponding correlation information.

Organization Code [®]	
EF	Search

3.4.1.2 Tariff management

This function can set the feed-in electricity price. [electricity price type] Select electricity price types include: fixed electricity price and peakvalley price.

To choose a fixed electricity tariff, you need to enter the revenue per kilowatt-hour, in USD / kWh.

 Basic Information 	>	2 Tariff Management	>
Feed-in Tariff			
* Tariff Type			
Fixed Tariff		~	
* Tariff			
Input Earning per kWh		USD/kWh	

Select the peak-valley tariff to set the electricity tariff in stages.

Feed-in Tariff							Use of company ta
ariff Type							
Peak-valley Tariff		\sim					
Date Range : 📋 01-01	- 🗇 1	2-31					3
Start Time : 00:00:00	✓ End T	me : 24:00:00	Tariff :	Enter Tariff per kN	USD/kWh	Add Time	
			+ Add Dat	e			

3.4.1.3 Associated account number

Add visitors:

1. Guest permissions: the power plant can be viewed, not the power plant information can be edited.

2.Add requirements: for users who need to view the data of the power plant, each power plant can have multiple guests.

3. Add steps:

(1) Click the $[\oplus]$ button in the visitor bar of the power plant.

Basic Information	\geq	Tariff Management	>	3 Associated Account	>	(4) More Information	
Plant Guest®							
Add guest, a plant can have m	ultiple guests						\oplus
			Previ	ious Next			

2)Input the guest's email and click "next".

Basic Information	>	O Tariff Management	>	3 Associated Account	>	(4) More Information
Plant Guest®						
Add guest, a plant can have m	ltiple guests					
Email Reminder: Both register	ed and unreg	istered email addresses can be filled i				
Input owner's email		Nex	t			
			Previou	Next		

(3) If the visitor has already registered, the system will display the user name, mobile number or email address. Click "confirm association" to add it successfully.

Basic Information		Tariff Management	>	69 Associated Account	>	④ More Information
Plant Guest®						
Add guest, a plant can have m	ultiple guests					
< User Name						
		co	onfirm associatio	on .		
			Prev	ious Next		

(4) If the visitor has not registered, the system will prompt you to fill in the user name, and click "Register and Associate" after completion to add it successfully. As a result, the new account that forms the identity of the owner can log in to the platform, and the system will send the account number and password to the user via SMS.

nt Guest®				
Add guest, a plant can have m	ultiple guests			
1 The contract of the sector of the	and and will an			
< The visitor has not registe	red and will re	pister a new account		
Register and associate				

3.4.1.4 More information

Optional:

[Installer' s mailbox] the mailbox of the installer of the PV plant.

[Installer' s phone] the phone number of the PV plant installer.

[Number of components] the total number of PV panels used in the PV plant.

[Grid-connected type] the selection of grid-connected types includes: Feed-in priority, self-use, and off-grid.

[Grid connection time] System generation: the time of the first grid

connection data generation after the power plant is created. Customization: after the user has defined the actual grid connection time, the time shall prevail.

[Capital contribution method] the choice of capital contribution method includes: the owner's full amount, the owner's loan, the self-investment of the power plant, and the joint venture with the owner.

[owner contact] type the phone number of owner

[pictures of plant] Can upload no more than 9 image formats up to 700kb.

[time of platform access] System generation: the time of the first grid

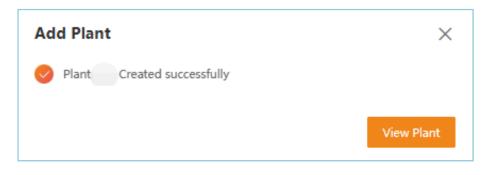
connection data generation after the power plant is created. Customization: after the user has defined the actual grid connection time, the time shall prevail.

3.4.1.5 Batch import

In the upper right corner of the interface, you can import the power plant in batches. Click "download template" to export the Excel template for batch import of the power plant, and complete and save the imported power plant correctly according to the template. Click "batch import power plant", and select the previously filled Excel file to upload.

3.4.2 Plant created successfully

After completing the information, click "create plant" to add the power plant successfully, and the display interface is as follows:



3.5 Add datalogger

After the addition of the power plant, it is necessary to add the datalogger used by the power plant and upload the data collected by the datalogger to the platform in order to realize the data management of the power plant.

The specific steps are as follows:

1. In the interface of the power plant where a new power plant is added or a datalogger needs to be added, click [add datalogger] in the upper right corner.

🔅 solis			⊖ MSG	③ Help 🗈 💿 demo account 💌
	• ID : Last Update : - O		Plant Report M	odify Information Add datalogger More ~
Overview	50%			Ning Bo Shi
E Layout		Daily Yield	Monthly Yield	· Weather · · · · · · · · · · · · · · · · · · ·
Info Info	200	O kWh =0USD	O kwh	states
Device	1	This Year Yield	Total Yield 💿	Temperature O Humidity
88 Alarm	0 kW 0% 100% Installed Capacity: 1.111 MWp	0 kWh ≈0USD	0 kWh #0USD ©	Pa Wind Byeed Direction
		< 03/12/2023 > Day	Month Year Total 🚓	Plant Information More >
	Daily Yield	Daily Earning	Today Full Load Hours	Cattle Wardows

2. Enter the collector SN number to be added, and then click "confirm add" to complete the operation.

Add Datalogger	×
Datalogger SN	
Enter datalogger SN	(+)
Selected : 0	
You have not selecte	ed any dataloggers
	Cancel Confirm

Note: adding a datalogger using APP can be done by scanning the QR code on the collector.

4.1 Power plant management

Users can operate and manage the power station in the [Overview]-[Plant Overview] interface.

4.1.1 Overview of plant

nder Nach	solis					💬 MSG	🗈 🕘 demo accoun	t 🕶 🧍
	Overview	Plant Overview C					Add P	lant
爭	Plant Overview	Current Power 🕢 Daily		Yield 🛗 Monthly Yield		🧆 Total Yield		
	Device Overview	0 w	O kWh		O kWh	0	kWh	
飁		Installed Capacity: 1.111MWp	Daily Earnin	g: OUSD	Monthly Earning: 0USD	Tota	al Earning: 0USD	
0						Search for Plant N		
88		Plant List Plant Location				Search for Plant N		
		Total(1) Online(0)	Alarm(0)	Offline(1)			Filter >	
		My Favorites		Plant Type		Investment Type		
		Select favorites		Select plant type		Select investment type		
		Grid Interaction Type		Installed Capacity		Choose region		
		Select grid connection type		Min Capacity kWp –	Max Capacity kWp	Select region		
		Project Company						
		Enter project company						
		Search Reset					<u>熟活 Windows</u> 時到"设置"以激活 Windows,	,

[Plant data display] users can view the basic information of the total power plant. For detailed information, please refer to the table below.:

Basic information	Information description
current power	Click to view current power, installed capacity and total
	full load hours of the total power plant.
Power yield	Click to view daily、monthly and total power yield of the
	total power plant.
Earning display	Click to view daily、monthly and total power yield of the
	total power plant.
Today full load	Peak generating hours of the plant in a day.
hours	

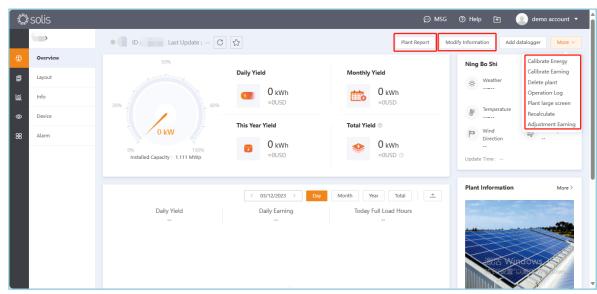
[Add plant] Users can add the power plant to be created in this interface. For specific operation, please refer to Section 3.4.

[Search for plant name] Users can search for a specified power plant according to their own needs, enter the name or address of the power plant, and click "search" to complete the search.

[Filter] Users can use the filtering function to search for power plants by classification, including: My favorites, plant display, plant type, NMI, investment type, grid interaction type, installed capacity, choose region, organizational structure and project company.

4.1.2 Plant state

You can click the specified plant to view the specific information about the plant and operate or manage the plant independently.



[View plant overview] You can view basic information about the plant. For details, see the following table:

Information description
You can view current power, installed capacity and total full load
hours of the total power plant.
You can view daily, monthly power yield of the total power plant.
You can view monthly、annual power yield of the total power
plant.
You can view annual, total power yield and total earning of the
total power plant.
You can view the weather, temperature, sunrise & sunset, humidity, wind
direction and wind speed in the plant location.
You can view the equivalent trees planted and CO2 emission saved of
the plant.
You can view the historical alarm information of the plant, and
click on the [alarm] interface of the plant.
You can view the network status, installed capacity and earning
per unit of the plant.
You can view the specific location of the plant, and scroll the
mouse on the map to zoom.

[Modify plant information] Users can update and modify the information set when adding a plant. There are two specific modes of operation:

Method one:click "modify Information" in the upper right corner of the [Overview] interface of the plant to operate.

Method two: Click "modify Information" in the upper right corner of the [Info] interface of the power station to operate.

[Delete plant] Users can delete the plant. After clicking "Delete Plant" in the upper right corner of the "Overview" interface, the system will pop up a warning message and click "Delete" to complete.

[Device] Users can add and edit the device used in the plant.

①Add device: The device used in the plant can be added by adding a datalogger. For specific steps, please refer to 3.5 to add datalogger.

②Edit devices: Click the [Device] page to view the inverter, datalogger, and EPM of the plant. You can edit and manage the devices on the page.

[Calibrate energy] Users can manually calibrate the power generation of the plant, detailed prompts can be seen.

Calibrate Energy	×			
Enter offset	Save			
Yearly Yield Calibration				
2023 This Year Yield : kWh				
Enter offset	Save			
Total Yield : 0 kWh				
Enter offset	Save			
Tip : 1. Example: 100、-100、100.005、-100.005. If you want to add 100kWh offset, please enter 100; If you want to reduce 100kWh offset, please enter -100. 2. Daily yield calibration will affect monthly and yearly yield; Monthly yield calibration will affect yearly yield. 3. Calibrated yield affects revenue, and calibrated earning also affects final earning. Final earning formula: Final earning = total yield * earning per kWh + earning offset				

[Calibrate earning] Users can manually calibrate the plant earning, see detailed prompts. **[operation Log]** You can view the operation records of the plant.

< Back	•
Operation Log	Total 1 operation records Plant ID :
	03/12/2023 Create Plant 16:52:18 (UTC- 11:00) demo account web 122.247.90.225

[Plant large screen] You can jump to the interface shown in the figure to display the relevant data of the plant.



[Recalculate] It can recalculate the power yield and related data of the visible device under the power station.

Recalculate	×
Only recalculate the power and related data of the device visible to the customer under the plant and the device that has been unbound in the history will not be calculated.	
Select Time	
All Time Select Time Start Date - End Date	
Cancel	rm

[Adjustment earning] Users can adjust the tariff for a customized time period.

Adjustment Earning	×						
Tip : Time of creation of power station. : 2023-12-04; Time of first earnings generation : Example : Adjustments to 2020-01 earning, January earning = January yield * tariff, 2020 earning = 2020 yield * tariff, will affect total earning if the end date covers the current month							
Select a time period							
12/2023	- 🗎 Long-term						
* Tariff							
Enter tariff	USD/kWh						
	Cancel Confirm						

[Share plant] This operation can only be carried out on the SolisCloud APP, click the desired sharing plant, and click the upper right corner [...] after the page jump is complete. Click [Share plant] and select "wechat icon", and the basic information of the plant will be shared with wechat friends in the form of pictures.

4.2 Device management

You can monitor the number and status of inverters, dataloggers, and EPMs under the account on the [Overview] – [Device Overview] page. You can click the device list to view the detailed information and related data of a device and manage the device.

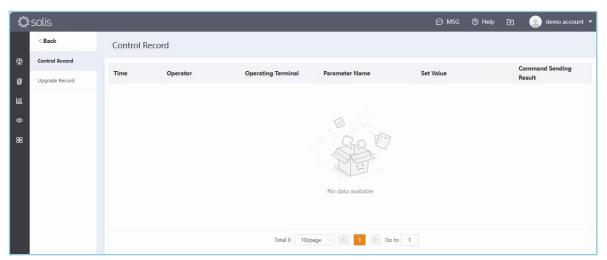
and a	solis			💬 MSG 🕜 Help 🗈 📀 demo account 🕶
	Overview	Device Overview		
爭	Plant Overview	Inverter	Datalogger	EPM
8	Device Overview	Total : 0	Total: 0	Total : 0
<table-cell></table-cell>		Online : 0 Alarm : 0	Online : 0 Offline : 0	Online : 0 Offline : 0
۲		Offline : 0	Unime. U	Chilling . U
88		Inverter Datalogger EPM Meteorograph	Meter	Search Device SN Search
				Search Device Siv Search
		Total(0) Online(0) Alarm(0)	Offline(0) ③	
		My Favorites : Select favorites V Display : My Inverter		tatus : Select V Search Reset
		Status Inverter SN Rated Power Curre		
			D.A.	

4.2.1 Inverter

[View inverter information] Users can view the basic information of inverter such as name, model, version, etc. Also can view the real-time information such as current power and total yield etc.

and the second	solis							© MSG ⊘	Help [ъ 🤹	demo a	ccount 💌
	Inverter Details	Inverter Plant ID : Last Update : Within	1 Min C					Operation Record Inverter	Control	Inverter U	pgrade	More ~
₽	Inverter EEF	Basic Information										
88 9 12 13 13 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	Inverter 09: Inverter 08: Inverter 75: Inverter	Name : Inverter 15 Model : Warranty Expiration Time : Inverter Version : AFCI Scheme : Delevery Trendingtorio :		SN : Plant: Warranty Status : Datalogger : RisoLim :kΩ AFCI Version: 0				Status : Online Rated Power : 110kWp National Standard : ILeakLim :mA Operational Time : G100 Status :				
88	00. Inverter 248 Inverter 276 Inverter 776 Inverter 00. Inverter 980 Inverter 980	Delivery (Imedictence): Real-time Information Convert Prover 5282xW Today Full Load Hours 0.71h Alarm Information No alarm 3- Hoff Timer Temperature 364.11C (t/up to 175%)	Today PV Yield 77,7kWh Monthly Yield 755kWh Annail Yield 56,075MWh Total Yield 60,154MWh Baring Dispension Rat 1635,13%	(Grid Connection Time(Interior) ;•(9)	DC PV1 PV2 PV3 PV4	Voltage 102.7V 102.7V 132.8V 132.8V	Current 501.6A 0.3A 0.1A -2107.2A	Power 51514W 31W 13W		Voltage 235.4V 235V 230.1V	74.8A 74.3A 74.5A	F 0.29Hz 0.29Hz 0.29Hz

[Control record] You can view the historical control and upgrade records of the inverter.



[Monitor inverter real-time and historical data] Monitor inverter data in a date dimension by single or multiple selection of different parameters. Display the corresponding chart data analysis, including DC analysis, AC analysis, output analysis and other direction corresponding parameter analysis, you can customize the parameter group for data analysis.

Inverter Details	a manager and second		u i s s
Inverter AS	Inverter Diagram SN : EEF0D1405	591150 < 04/12/2023 Day Month Year Total User-define	ed 🕮 Exp
Inverter FC	Select (21)+ C	Daily Yield: 77.7kWh Today Full Load Hours: 0.71h	
Inverter	Recommended Analysis	kW	v
C65	DC Analysis AC Analysis	60 -	140
Inverter Of	Output Analysis	0	
Inverter O	Inverter(21)	48	112
Inverter	🕨 📴 DC Voltage	36 -	84
421	DC Current		
Inverter B6	DC Power	24	56
Inverter	U_AC Voltage	27	56
B7	V_AC Voltage		
Inverter	W_AC Voltage	12 -	28
69	U_AC Current		
Inverter 88	V_AC Current		0
	W_AC Current	02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 Total Power O D C Voltage PV1 D D C Voltage PV2 D C Voltage PV3 D C Voltage PV3 D C Voltage PV4 D C Voltage PV5	1.000
Inverter 63;	AC Output Frequency	- Total Power - → DC Voltage PV1 - → DC Voltage PV2 - → DC Voltage PV3 - → DC Voltage PV4 - DC Voltage PV5 激活 Window	< 1/5 >

[Inverter control (To open the function, please consult Solis) **]** You can remotely control a single device, change the current status or parameters of the device, and set power grid parameters, EPM, inverter functions, inverter parameters, inverter power, and voltage traversal.

Basic Information					
Name : Inverter 🗹	St	4 :		Status : Offline	
Model :	P	ant :		Rated Power : 30k	w
Warranty Expiration Time : ••	W	arranty Status : Under wa	arranty	National Standard	
Inverter Version :	D	stalogger :		Operational Time :	®
AFCI Scheme :	A	FCI Version : 0		G100 Status :	
Real-time Information			DC Voltage Cu	rrent Power	AC Voltage Current F
Current Power	Today PV Yield			1A 271W	U 218.5V 4.3A 49.99
3.504kW	0kWh		PV2 271.3V 2	.7A 733W	V 219.9V 4.3A 49.99
Today Full Load Hours	Monthly Yield		PV3 270.2V 1	.6A 432W	W 219.1V 4.3A 49.99
0.06h	0kWh		PV4 270.2V 2	1A 567W	
Alarm Information No alarm >	Annual Yield 0kWh			→([ē_)→
IGBT temperature	Total Yield				
39.2℃ ⊙(up to 175°C)	45kWh				
	String Dispersion Rate				
	1.29%		More >		激活 Windows 转到"设置"以激活 Windows
	1.295	Name : Inverter Status : @ Online	More >	Model :	
sic Info SN :		Status : • Online		_	转到"设置"以激活 Windows,
sic Info SN : Plant :	1.295		Curre Set Value	Model :	
sic Info SN : Plant : Search Control on/off	SN	Status : • Online		_	转到"设置"以激活 Windows,
sic Info SN : Plant : Plant : Search Control on/off Inverter Special Function Settin	SN	Status : • Online		_	转到"设置"以激活 Windows,
sic Info SN : Plant : Search Control on/off Inverter Special Function Settin • Grid Parameter Setting	SN	Status : • Online		_	转到"设置"以激活 Windows,
sic Info SN : Plant : Search Control on/off Inverter Special Function Settin • Grid Parameter Setting EPM Setting	SN	Status : • Online		_	转到"设置"以激活 Windows,
sic Info SN : Plant : Search Control on/off Inverter Special Function Setting > Grid Parameter Setting EPM Setting > Inverter Function Setting	SN	Status : • Online		_	转到"设置"以激活 Windows,
Plant : Search Control on/off Inverter Special Function Settin > Grid Parameter Setting EPM Setting	SN	Status : • Online		_	转到"设置"以激活 Windows。

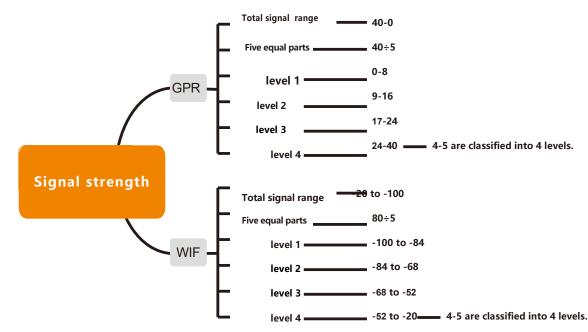
[Upgrade inverter] Upgrade the firmware version of the inverter, only for internal personnel to operate.

4.2.2 Datalogger

[View datalogger information] You can view details about the datalogger, such as the datalogger name, version, and date of factory. You can also view the signal strength of the current datalogger and information about the corresponding inverter, EPM, weather meter, and electricity meter.

A.	solis							Ø	MSG ⑦ Help [🗈 🙁 demo a	account 🔻	
	Datalogger Details	Datalogger ID	: Last Update : 3Ho	our Ago				Dat	talogger Upgrade 🗸 🛛 D	lelete Change	More ~	
⊕	Datalogger 28	Basic Information										
٥	Datalogger 280	Name :	ß		SN Ø SSID: Location :			Status : @ Offline LAN IP : Data Source :				
围	Datalogger 280	Type: WiFi Plant:										
۲	Datalogger 280											
88	Datalogger 40;	Details					RSSI			< 04/12/2023	>	
	Datalogger 402	Datalogger		Date of	Factory :		5					
	Datalogger 402	Version : H4 01D)	01.51MW.2.01W1.0.77(EPN	121113 Product	Date of Factory: 100 Production Date: 80 Data Upload Cycle: Sm0s 60 Jot instance ID(interior): 20			80 -				
	Datalogger 402	Mac : 98AD Power-On Ti							Low Signa	1 Zone		
	Datalogger 400	Total Operat	ion Time : 1h15m				0 02:00 04:0	00 06:00 08:00 10:0	18:00 20:00 22:0	0		
	Datalogger 72								-o- Signal			
	Datalogger 406	Inverter E	PM Meteorogra	aph Meter								
	Datalogger 400	Status	Inverter SN	Rated Power $\stackrel{\circ}{\Rightarrow}$	Current ÷	Today Yield 🗘	Total Yield 🗘	Plant	Warranty 🌣	Last Update 🗘	•	
	Datalogger 621	Offline	-	0 kW	0.02 kW	6.2 kWh	23 kWh	**		04/12/2023 12:30:		
	<				Total 1 20/p	age v 🤇	1 > Go to 1		转到"设	置"以激活 Windo	SWS.	

[signal strength] displays the data information strength of the current datalogger;



[Total operation time] The working time of the

current bound datalogger;

[Data upload cycle] Time Interval for the collector to obtain data. The default time interval is every five minutes;

[Power-on time] The working hours of the datalogger on current day;

[Corresponding operation]

[Search device(datalogger)] Search datalogger according to the datalogger' s name and SN number.

[Filter datalogger] You can view the datalogger list based on the datalogger type, status, and relationship between the datalogger and the plant.

[Unbind] Unbind the datalogger from the plant.

[Change] You can complete the change after recording the new datalogger SN number.

4.2.3 EPM

[EPM information] Users can view the basic information of the device, load, and power grid side, and display real-time input and output data of the device from different sides.

FPM Details EPM Plant ID: Last Update: Within 1 Min C IPM Upgrade Control Deline Operation Basic Information	🇱 solis		💬 MSG 🕥 Help 🗈] 💿 demo account 👻
Basic Information Grid Image: I	EPM Details	EPM Plant ID: Last Update : Within 1 Min C	EPM Upgrade Control	Delete Operation Log
	42 21 10' 10' 10' 21 10' 10' 10' 21 10' 21 21 21 21 21 21 21 21 21 21 21	Name: EPM IS Plant. EPM 5% Contailogger: Status: © Online Version: 1 EPM Power limit percentage: 84.47% Current sensor ratio: 0.1 Fallisafe : Off Buckflow Power: 0W	U V W Voltage 12260 V 13020 V 1304 Voltage 12800 V 13020 V 1304 Current -34.A -33.A -43.6 Active Power -3600 W -456 -456 Power Factor 0.9 - -	Totai 40 V A
1 EPM	1 EPM 110 EPM 211 EPM 10 10 EPM 11 220 20 EPM 21 EPM 21	Select Parameters(2) C FPA(1) 5 Power Limit Percentage Grid(1) 7 Total Percent Total Percent Total Energy Imported Total Energy Imported Total Energy Imported U,AC Voltage U,AC Voltage U,AC Current U,AC Current	1135 (JIT- 6720) Teal Power -73 dW Power Link Percendage - 8	-35 -36 -46 -44 -44

[Parameter information]

[Power limit percentage] Used to set limits on inverter output power based on percentage of rated power;

[current sensor ratio] Current transformer(CT)' s ratio;

[FailSafe switch status] When the output power control function is in use and Failsafe is on, if the communication between the inverter and METER/EPM/CT fails, the inverter automatically reduces to zero power export to prevent power from returning to the grid;

[Backflow power] When using the output power control function, you can set the maximum amount of power that is allowed to be injected into the grid;

[Power factor] A factor used to display the working efficiency of an inverter, equal to the ratio of active power to apparent power.

[Related operation]

[Search EPM device] Search for EPM based on the SN number of the device;

[Filter EPM devices] You can filter and view the list of devices with corresponding conditions according to the current status of EPM devices;

[Delete EPM device] Unbind the equipment from the power station.

Overview	Device Overview									
Plant Overview	Inverter		Datalog	iger			EPM			
Device Overview)	Total : 33 Online : 9 Alarm : 1 Offline : 23	(Total : 21 Online : 12 Offline : 9			Total : 3 Online : 2 Offline : 1		
	Inverter Datalogger		ph Meter					Search Device St	N S	Searc
	Inverter Datalogger Total(3) On Failsafe Status : Select EPM sw	aline(2) Offline(1) ©	ph Meter					Search Device St	N S	Search
	Total(3) On	aline(2) Offline(1) ③ eitch Search Reset	ph Meter Total Energy Imported	Total Energy Exported	- Datalogger	Plant	Failsafe Status	Search Device St	Operation	
	Total(3) On Failsafe Status : Select EPM av	aline(2) Offline(1) ③ eitch Search Reset	Total Energy		2 Datalogger	Plant	Failsafe Status On			Search
	Total(3) On Fuilsafe Status : Select EPM sw Status EPM S	Aline(2) Offline(1) O Alth Search Reset N EPM Power - 0 kW	Total Energy Imported	Exported				Last Update 1 14-08-22 19:53:39	Operation	

4.3 Operation and maintenance

Users can conduct operation and maintenance management in the [O&M] interface, mainly including alarm information and dispersion rate analysis.

4.3.1 Alarm information

In the alarm information, the user can check whether there is any abnormality in the operation of the power plant equipment under the account, and also view the classification of all the alarm information processing status of the power plant equipment under the account, including pending information, processed information, and restored information, and can also filter the operation according to the time period. For the alarm information, the system will evaluate the level and provide suggestions for handling, and the user can handle the alarm information according to the suggested processing method.

nder News	solis						💬 MSG	⑦ Help [🗈 📃 demo account 💌
	0&M	Alarm Inform	nation 🛓						Push Setting Export
壆	Alarm Information	My Favorites : S	elect favorites 🗸	Status : Pending	V Alarm 0	Grade : Select Status	$\overline{}$		
8	Dispersion Rate Anal	Alarm Duration :	Min Capacity	h – Max Capacity	h Select Time :	🗎 Start Time - En	d Time Plant	Name : Enter plan	nt name
鬥		Inverter SN : Input	t SN	Alarm Message : Inpe	ut alarm content	Search Reset			
۲		Grade	Status	Plant Name	Inverter SN	Alarm Message	Alarm Code	Resolution	Alarm Duration Start
88						-		Method	
					Ν	lo data available			
									活 Windows 們设置"以激活 Windows。

[Search alarm message] Enter the plant name, inverter SN or alarm content in the search box at the upper right corner of the page and click [Search] to complete.

[Filter alarm message] Alarm information can be filtered by the status of my favorites or alarm information.

[Ignore alarm information] For the information that does not affect the normal use of the device in the pending information, the user can customize whether to ignore it. After clicking a single alarm information, the system will pop up the alarm details. Click "Ignore" to complete the operation.

[Delete alarm information] Users can delete alarm information by themselves, by clicking on the alarm details that appear after a single alarm information to delete, or by clicking on the right-most [operation] option of a single alarm information to delete it; The user can delete all the information by clicking the clear symbol behind the alarm message.

[Export alarm information] Users can export alarm information and generate a form.

[Set alarm notification] Users can choose to set alarm notification, click on the upper right corner of the interface [Alarm notification] select [Allow notification] to enable this function.

① Push notification: Users can choose the urgency of push alarm and the speed of message notification according to their own needs.

② SMS notification: Users can define the mobile phone number for receiving SMS messages according to their requirements and choose whether to enable SMS notification.

③ Email notification: Users can define the mailbox to receive according to their own needs, and choose whether to enable email notification.

4.3.2 PC dispersion analysis

Dispersion rate is an index that describes the change of string current, which used to evaluate the consistency of generation performance of photovoltaic strings and can effectively reflect the health status of plant. The smaller the dispersion rate, the more stable the operation of the plant and the better the power generation condition. Otherwise, it means that there may be a faulty branch circuit, which affects generation.

[Dispersion Rate Analysis conditions]

- 1) The time interval for the dispersion rate calculation is from 10:00 to 14:00 every day, please check the plant dispersion rate analysis results after 10:00.
- 2) When there are devices with the maximum number of strings \geq 6 in the plant;
- 3) The current power of the inverter is greater than 10% of the rated power;

[Operation tips] The time interval for the dispersion rate calculation is from 10:00 to 14:00 every day, please check the plant dispersion rate analysis results after 10:00.

[function operation]

1) function location: Click [Operation and Maintenance] - dispersion rate analysis, and you can also view the dispersion rate curve data in the parameter data of a single device.

	100.00	Dispersion rate analysis o	f the maximum numb	er of stri?							£x	12	
	nquiry Date	1 05/12/2023											
	15		A	nalysis of Discrete	Rate of Inver	rter String							
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	0.9												
	0.6									_			
	0.3												
		0 Officer	0	3	0 - 20%		5	0			- 5%		
		nunication failure occurred	Fault exists in branches		es are obvious)	y law		nches are low			imal		
	otal 1 devices			PV Current(A)									
	nverter Name	Inverter SN	Dispersion Rate (%)	PV1 PV2	PV3	PV4	PVS	PV6	PV7	PV8	Operation		
	nverter	Contraction of the	3.4	0 11.4	1012								
			1200	V 114	11.5	0.9	0	11.5	11.7	0.5	Setting		
ccording to the opviously low cur abnormal		nce of the fo	llowing d	ata inter		he st		s with	n zer	o bra 5-10%	nch cur	rrent and those w	

- 2) You can view or export the string dispersion data of the devices in the plant;
- 3) The group strings can be set not to participate in the calculation of the dispersion rate.

4.4 Report management

Users can manage reports in the [Report] interface, which mainly includes three parts: Plant report, Inverter report, Custom report.

4.4.1 Plant report

and the second	solis	💬 MSG 💿 Help 💽 🌏 demo account 🔻	ĥ
	Report	Plant Report Export	
壆	Plant Report	Daily Report Monthly Report Annual Report Total Report	
8	Inverter Reports	Select Time : 🖹 05/12/2023 Select a Plant : No plant selected 🗸 Current Status : Select current status 🗸 Project Company : Enter project company	
lĩi	Custom Report	My Favorites : Select favorites V Search Reset	
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88			
		* De San	
		CRR VI	
		》》》。 激活 Windows	
		Select plant 转到"设置"以激活 Windows。	•

[Select time] You can export power station reports within a specified period. The time range corresponds to the report type. If the report type is cumulative, you do not need to select the time range.

[Select a plant] You can select the name of the plant whose report you want to export, click [Select a plant], select the name of the plant required, and click [Confirm] to finish. You can also filter by the region where the plant is located or search by the plant name.

[Select report type] You can select the types of plant reports to be exported, including daily, monthly, annual, and total reports.

[Current status] The user can filter the plant according to whether the plant is currently online, offline or alarm.

[Project company] The user can enter the name of the project company to select the corresponding plant.

[My favorites] The user can select a favorite folder to display the plants in the favorites.

[Export report] After the above selection is completed, click "Export" in the upper right corner to pop up the download option. Users can customize the name and download path, and click "Download" to complete the operation; Users can also click "Export" on the right of the plant list to download the data of a single plant.

4.4.2 Inverter reports

ANG STREET	solis		💬 MSG	⑦ Help	r 🧕	demo account 🔻
	Report	Inverter Reports				Export
爭	Plant Report	Daily Report Monthly Report Annual Report Custom Report				
٨	Inverter Reports	Select Device : No device selected \lor Select Time : 05/12/2023 Search Reset				
Ш	Custom Report					
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88						
		D.L				
		Gra PT				
		Please select device		0	數活 Windov	
					致i占 Windo 专到"设置"以激泪	

[Select device] You can select the SN number of the device whose report you want to export, click [Select a device], select the name of the desired plant, and click [Confirm]. You can also search by device SN number.

[Select report type] You can select the types of plant reports to be exported, including daily report, monthly report, annual report, and custom report.

[Select Time] You can export the plant report on a specified date.

[Export report] After the above selection is completed, click [Export] in the upper right corner and enter the verification code in the pop-up verification code window to export the report. Click [Download] to generate an Excel table.

4.4.3 Customization report

ANC.	solis		💬 MSG	⊘ Help 🖻	🧵 demo account 🝷
	Report	Custom Report			
爭	Plant Report				
٦	Inverter Reports	Fill in the data below to generate a report			
lai	Custom Report	* Report Type Plant Report			
۲		Report template			
88		Select report template \lor			
		* Select a Plant			
		Select a Plant 🗸			
		* Reporting period			
		Day 🗸 🖾 Select Date			
		* Select indicators			
		Select indicators			
		Generate reports Save Template Reset		激活 Wi	ndows
					NGOWS "以激活 Windows。

[Report type] The report type is fixed as a power plant report and is not optional.

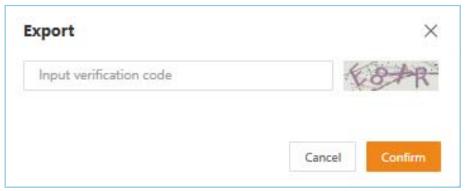
[Report template] Users can save custom templates, which can be directly applied in the next export without checking the relevant data.

[Select a plant] You can select the name of the plant whose report you want to export, click [Select a plant], select the name of the plant required, and click [Confirm] to finish. You can also filter by the region where the plant is located or search by the plant name.

[Report period] Users can choose to export reports for a certain day, month, month, or total. **[Select indicators]** Users can select the indicators that need to be exported.

lect indicators 👁		
elect indicators	0 indicators selected	Emp
Search indicators	Search indicators	
Plant information		
Datalogger information		
Inverter information		
Statistical information		
Information About National Standards		
	Select indicators	
		Cancel Confin

[Generate Report] After completing the above selection operations, click [Generate Report] and enter the verification code in the pop-up verification code window to export the report. Click [Download] to generate an Excel sheet.

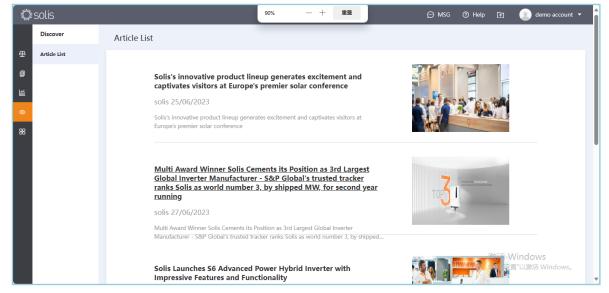


[Save template] You can save the currently filled data as a template and enter a name.

Template Name								
* Report template								
Input report template								
	Cancel	Confirm						

4.5 Discover

Users can view the articles published by Ginlong Technology in the [Article List] in the Discover.



4.6 Service

4.6.1 Warranty Query

Users can input the SN to query the warranty period, warranty end date, and warranty status of the inverter.

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	Service	Warranty Query				
壆	Warranty Query	Inverter SN				
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۲		Search Reset				
88		Tip: If you have any questions about the query results, please contact the aftersales service in each region: www.ginlong.com/global/aftersa	ales.html			
		SN : Warranty Period : Warranty : Warranty Status :				
		Total 1 20/page \vee < 1 \rightarrow Go to 1				
					数活 Windows ^{转到"} 设置"以激活 Window	5.

4.7 Message

Users can enter the message center by clicking on [MSG] in the upper right corner or selecting [View More] to manage the received messages. The message center mainly includes to-do reminders and system notifications.

0	solis					© MSG	Help	te 🙁	demo account 👻
	Message	Todo				Todo	Notice	Push Setting	Mark all as read
₽	Todo	Title			Sending tim				
8	Notice	libe			Sending tim	SB	0		
ाद्य									
9					25	View more]		
88				- A	RUT				
				No data av	vailable				
			To	ital 0 10/page 🚽 🔇	1 So to	1			
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4.7.1 To Do Reminder

Users can view and process messages on this interface. By entering the push settings, they can set the push content, inverter abnormal offline push or not, the push method, and the alarm messages push rule.

0	solis			⊕ MSG	⊘ Help 🖻		demo account 💌
	Message	Todo			Put	h Setting	Mark all as read
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8	Notice	Title	Sending time				
<u>انت</u>							
0			B. 2				
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0	solis			Push Setting	×
	Message			Push Content	
奥	Tada		DIAL DIAL CONTRACTOR	Alarm Notification	Э
в		Title	Sending time	Inverter Abnormal Offline	
lii.				Push Mode	
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				Push now	\sim
			Neb data unidiatela		
			Total 0 10/page 0 00 1		
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4.7.2 System notifications

Users can view maintenance reminders sent before each system upgrade and maintenance on this interface.

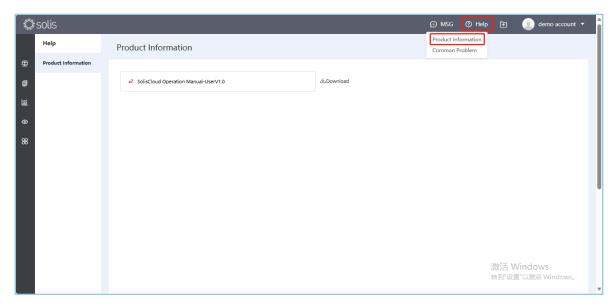
0	solis			💬 MSG	() Help	æ	🥑 demo account 👻
	Message	Notice					Mark all as read
⊕	Todo						
8	Notice	Title	Sending time				
ায়							
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88			No data available				
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4.8 Help

The help interface includes two main sections: product information and common questions.

4.8.1 Product Information

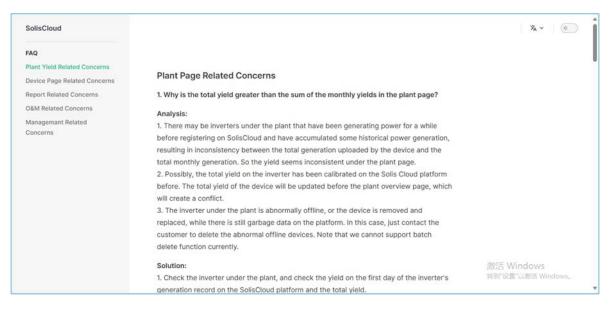
Users can download the Soliscloud Operation Manual Owner-Organization from the product information interface.



4.8.2 Common Problem

Users can view solutions to some common problems on this interface.

0	🗘 solis				Help	Ð	🧕 demo accoun	u - 1
	Help	Product Information		Product Information Common Problem				
₽	Product Information							
8		SolisCloud Operation Manual-UserV1.0	du Download ط					
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						0723 ASJR. 3	water windows,	•



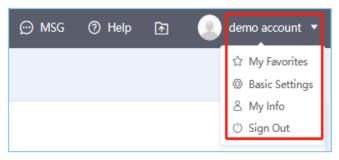
4.9 Export Center

Users can view export records in the export center and filter them based on the export type.

0	solis					Ð	MSG 🕥 Help	🗈 🍥 demo account 🔻
	Export Center	Export R	ecords C				Ŀ	xport Center
	Export Records	Select Type File Name	All All	Туре	Amount of data	Completion Time	Status	Operation
- @ 88			Plant Report Alarm Info Inverter Reports Datalogger List Plant List Custom Report		No data available	17		
		Your exported fil	es will be temporarily stored for three		20/page 🗸 🔇 🕇 🔿	Go to 1		活 Windows 劉 段寶 以謝酒 Windows。

4.10 Personal Center

This module facilitates users to manage account information and functional settings, mainly including: My Favorites, Basic Setting, My Info, Sign Out.



4.10.1 My Favorites

On this interface, users can view all created favorites.

0	solis				⊖ MSG	📀 Help 🗈 💿 demo account 🔹
	Favorites	My Favorites				Create Favorites
壆	My Favorites	Search favorites name	Search			
8		Favorites Name	Description	Favorites	Create Time	Operation
ল্ল		DEFAULT	Description	0	create time +	operation
۹		JURNUL 1		Total 1 10/page	Gete 1	
88				iotai i Toppage	0010	
						激活 Windows 转到"说置"以激洒 Windows。

[Create Favorites] Users can create a new favorite by entering the name of the favorite, and also can descript the favorite.

Create Favorites	×
* Favorites Name	
Enter favorites name	
Favorites Description	
Enter favorites description	
	0/255
	Cancel Confirm

4.10.2 Basic Setting

[Temperature] Users can customize temperature units and choose between Celsius (°C) or Fahrenheit (°F)

[Language] The system defaults to displaying English

[AI String Alarm] Users can choose whether to enable AI string alarm according to their own needs. After enabling AI string alarm, the system will monitor all string level faults in the power station under the account, and provide feedback on alarm information to the owner when a fault occurs.

[Notification period] APP push notifications, text messages, and emails will only be sent during the time period set by the user, and will not be sent during other time periods.

[Environmental Benefits Conversion coefficient] Users can customize the conversion of 1kWh of electricity generation to CO2 emissions reduction and the number of equivalent green plants, and can also restore default settings with just one click

[System theme setting] The default system theme is . , and users can choose other theme colors.

[Current Version] Users can view the current version of soliscloud, and when a new version is available, APP users can upgrade the software to a new version.

solis			⊖ msg	() Help 🗈	💿 demo accour
Mine	Basic Settings				
Basic Settings					
My Infu	Temperature :	0 T 0 F			
Change Password	Language :	English -			
	Date Format :	dd/NM/yyyy ~			
	Decimal point format(axample) :	123.45 🗢			
	Ai String Alarm :	CID			
	Notification period 1 Tip: APP puck_DMS and Email will be sent within the notification period	0000 - 0.2400			
	Time Zone Setting :	(UTC+08:00) PRC =			
	Environmental Benefits Conversion coefficient : you'd sawh-CO3 transion	n Saved 0.997 kg			
	Yush Wh+Equivalent pla	anting 0.0005538889 tree Replace Default			
	System theme setting :				
	Current Version :	V4.1.2			
	Privacy Policy : Vee				
				激活 Winde 转到"设置"以激	OWS 問語 Windows。
	Cancel Seve				

4.10.3 My Info

[Account Information] Users can view account information such as user type, set Profile Photo, User name, Email, Apply for account cancellation and bind a third-party account

[Change Password] Users need to enter the old password to set a new password.

States of	solis		🗹 Large Screen	💬 MSG	⑦ Help	æ	🧾 demo account 👻
	Mine	Change Password					
毋	Basic Settings						
٥	My Info	* Old Password					
缸	Change Password	Input old password	Presh.				
۲	API Management	* New Password	hpp6				
88		Password Strength:					
		* Confirm New Password					
		Input new password again	2 met				
		Cancel Save					
1							Yindows 『以激活 Windows,

4.10.4 Sign out

The user can click on the [Sign out] button in the upper right corner to exit the current account. The page will automatically redirect to the login interface, and the user needs to enter the correct account password to re-enter.

4.11 Tool Management

4.11.1 storage tool

Users can choose to import the datalogger into their current account. The imported datalogger is in an unbound state with the plant, and users can bind the datalogger to the plant according to the situation.

	Ser	vice		K Inbound datalogger
Zommon tool				
Local Operation	wi7i	Warehouse tool	20arranty Inquiry	Input SN of the datalogger to be store 🚍
Help	Configuration	TOOL	onquery	
? Help	74Q			
Dther				
Discover	Olew User			
Diant.	Cares Core		R	

4.11.2 APP WIFI Configuration

Step 1: Scan the QR code below with your phone to download and register the Soliscloud APP, or directly search for the Soliscloud APP in the APP Store or major Android shopping malls to download.



Step2: Click [More Tools], click [Wifi Configuration], If you have logged into your account, please enter the [Service] page to configure WiFi.

Hello!	6	Hellor	3			ice	
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Step 3: Manually fill in the "datalogger SN" or scan the SN QR code on the datalogger.

Эпри	t datalogger SN	E

Step 4: select [web page configuration]



Step 5: Follow the prompts to enable the configuration mode of the datalogger and click [I' m sure it is fishing] to proceed to the next step.



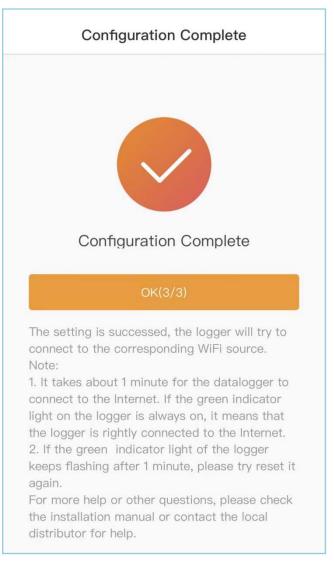
Step 6: Connect to the datalogger network, click 【Connect】, go to the network settings on your phone, select the datalogger network, default password 123456789, and return to the APP after successful connection.

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Step 7: Click [], make sure the phone is connected to the router's WiFi, then switch back to the page and enter the WiFi password. After entering the password, click Next

Click to connect router	
	\bigcirc
Input router's password	

Step 8: After the router is successfully connected, the datalogger configuration is completed.

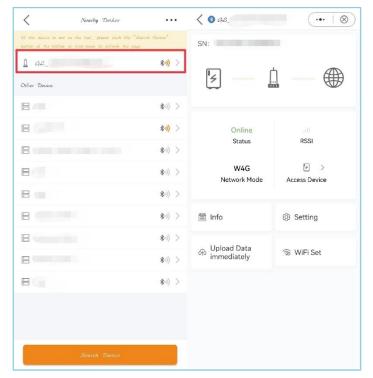


4.11.3 APP Near End Debugging

The near-end debugging function includes Bluetooth near-end connection and WIFI near-end connection, which can perform parameter debugging and other operations on the device in special circumstances.



[Bluetooth Connection] Click [Bluetooth Connection] to confirm that the Bluetooth connection status of the phone is on. After clicking [Search for Devices], the device to be debugged will be displayed in the [Nearby Devices] list. Click the arrow on the right side of the device to jump to the debugging interface.



[WIFI connection] The current WiFi connection platform provides a way to jump to the Solis TechView app for debugging software: if there is no such app to jump to guide installation, the app system prompts to open and use it; Search for the device while ensuring the inverter is connected normally, fill in the inverter WIFI login, and enter the control password to enter the debugging interface.





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