

SolisCloud Monitoring System

User Manual-Organization

Ver 2.0

Ginlong Technologies Co., Ltd.

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1. About

1.1 Description of Copyright

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1.2 Manual Content

This manual introduces the functions and operation procedures of SolisCloud platform to satisfy the requirements of users for convenient operation and management.

1.3 Scope

SolisCloud is suitable for users who have purchased Solis GPRS/4G, WiFi, LAN, RF-Link stick and data logger box. The data from the power plants monitored by the data loggers can be uploaded to the SolisCloud for viewing, and can be logged in through the APP or Web terminal. It can be used to monitor the power plant, so as to visualize and analyze the power plant data for management.

1.4 Requirements

Website: www.soliscloud.com

The following points should be noted when accessing the website:

- Visiting browser minimum compatible with IE browser V9.0 version or above, 360 browser V3.0 version or above;
- 2. The recommend display resolution is 1920 x 1080.

Mobile Phone APP: SolisCloud

Download: Search for "SolisCloud" in the app market or scan the QR code below to download.



1.5 For Readers

This manual is mainly for professionals and users who need to access, manage, and maintain SolisCloud platform. Technicians and users need to have the basic network knowledge and be familiar with Solis products.

2. Guideline

2.1 Description on Platforms

2.1.1 Solis Home/Solis Pro

Solis Home/Solis Pro are the first generation of the Solis monitoring platform. Solis Home is for end users to check the operation status of their plants.

Solis Pro is for installers/distributors to operate and realize the whole life cycle management of the power plant to maintain the continuous and stable operation of the power plant.

It includes intelligent management such as power plant operation and maintenance, device remote monitoring and so on.

2.1.2 SolisCloud

SolisCloud is the second-generation of Solis monitoring and management system, which combines the first-generation platform login portal into one, identifying different identities such as organization and owner.

It is a new generation of PV intelligent monitoring and operation and maintenance system for the whole world. The system integrates real-time monitoring, accurate message pushing, intelligent alarm, efficient operation and maintenance, remote upgrade control, visualization screen and statistical analysis, and it can monitor the operation status of inverter equipment in real time.

It can monitor the operating status of inverter equipment in real time, automatically calculate the power generation and efficiency of equipment and power station dimensions, and quickly locate the faulty power station, assisting operation and maintenance personnel to quickly complete on-site decontamination work. The system adopts the leading cloud computing platform, advanced framework technology, safe and reliable data, easy operation and beautiful interface.

2.2 User Information

2.2.1 Description on Users

"Organization" indicates all parties that are related to monitoring applications, such as companies, distributors, and installers etc.

A "Sub-organizer" is created by the organizer when third parties, such as internal departments or other cooperative companies, need access to the portal.

2.2.2 Solis Pro User

When using the SolisCloud platform for the first time, enter the account and password previously used for Solis Home App. The SolisCloud Monitoring platform will migrate all of your Solis Pro profile and all original data. Everything on your account will be displayed within 2 hours.

2. Guideline

2.2.3 SolisCloud Installer/Organization User

Directly register the account on SolisCloud as an installer dealer. Please refer to 3.1Register for details.

2.2.4 SolisCloud Installer/Sub-organization User

If you are an installer of SolisCloud organization user (refer to 4.6.3 Organization Management for role content), after getting the account information created by the organization, the first login needs to validate the name information of the newly created role, and it is recommended to change the password to protect the security of the account.

If you are a sub-organization of SolisCloud organization user (refer to 4.6.3 Organization Management for role content), after getting the account information created by the organization, the first login needs to validate the name information of the newly created role, and it is recommended to change the password to protect the security of the account.

3.1 Register

Please register an account when using SolisCloud for the first time. It requires an account to log in. Detailed steps as follows:

1. Open the web browser and input www.soliscloud.com. Press "ENTER" to turn to SolisCloud login page and click [Register].



2. When organization user is registering the account, please select [Organization].

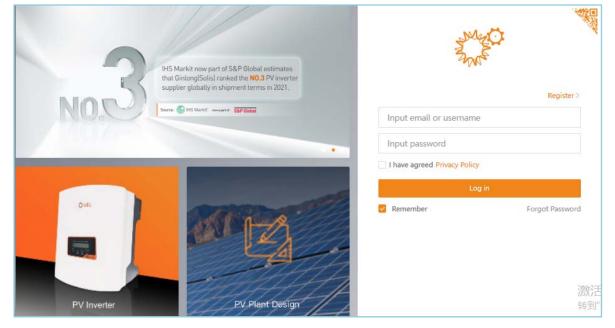
Solis Clou	d Registration		Log in >
	Organization Registration	Owner Registration	
	Installer Dealer	Plant Owner	

3. Fill in the correct information on the registration page, use email to register, complete the information to fill in the checkbox to read and agree to the user privacy agreement to complete registration.

Organization Regi	stration	Log in >
Tip: If your o in the Solis administrate		
* Name of Organization	Input 2-60 characters	
* Email	Input email	
* Vcode	Input verification code Verification code	
* User Name	Enter Username	
* Password	Input password	
	Password Strength:	
* Confirm Password	Enter password again	
Organization Code	D36D07 C	
Superior Organization Code	Input superior organization code	
* Time Zone	(UTC+08:00) PRC \checkmark	
	I have agreed Privacy Policy	
	Register	

3.2 Log in

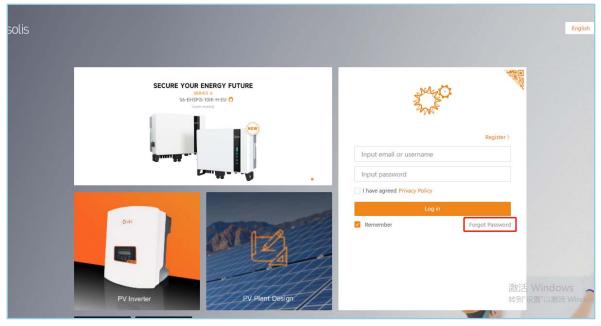
For users that have finished the registration or already have the account setup, please enter the email address or username and password to log in. You may click the [Remember] option to save the data in the browser.



3.3 Retrieve Password

Users can click [Forgot Password] to retrieve password of their account. Detailed operation as follows:

1. Click [Forgot Password] to enter the page to retrieve password.



2. Enter the account email address and click "Verification code". A code will be quickly sent to the email address. Then enter the verification code and click [Next], The email address must be the same as the one used for initial registration.

	Input email	Verification code
	Input verification code	
	Next	
-		

3. Set a new password and reconfirm the new password, then click [Done] to enter the platform homepage.

Find PW		Log in >
* New Password	Input new password	
	Password Strength:	
* Confirm Password	Input new password again http://www.again	
	Done	

3.4 Add plant

Users need to add a plant to manage it after first logging into SolisCloud platform, and click [Add Plant] to enter the plant creation interface.

niliji Najvet	solis							🖉 Large Scree	~ G	⊘ Help 🚹	🔔 demo a	ccount 🔻	
	Overview	Plant Overv	iew C								Г	Add Plant	I
要	Plant Overview	👩 Current Po	ower		Daily Yield		Monthly	Yield		🧇 Total Yield			I
8	Device Overview	0 w		0 k	Wh		0 kWh			0 kWh			I
<table-cell></table-cell>		Installed Capaci	ty: 0kWp		Earning : OUSD		Monthly Earnin	g: OUSD		Total Earning : OUSD			
۲													
88		Plant List	Plant Location	Plant Chart					Searc	h for Plant Name/Ad	Search	Export	I
		Total(0)	Online(0)	Alarm(0)	Offline(0)						F	ilter 🗸	
		Plant State	Plant Name ≑	Owner ≑	Daily Yield 🗘	Total Yield 🗘	Today Full ÷	Current ÷	Installed Capacity	Last Update	Operation	•	
						* [2]							
							HR U						
													U
						۰ بىلىم	Plant			激活 Wind 转到"设置"以		DAKE	
						Add	r larit.			我到 叹直 以			•

3.4.1 Plant Creation Interface

The plant creation interface is divided into: basic plant information, tariff management, associated accounts, and more information.

Solis		🖾 Large Screen 💮 MSG	🕜 Help 🚹	🧶 demo account 💌
< Back	Add Plant		Download template	Batch Import of Plants
Add Plant	Basic Information O Tariff Management O Associated Account O More Information			
۲ ۲	* Plant Name Input your plant name 2-60 digits			
۲	• Plant Type			
88	Select plant type V Installed Capacity			
	Enter total module capacity KNip * Area			
	Area Get map location			
	* Plant Address Input detailed address			
	* Time Zone Select time zone			
	* Currency			
	USD Vrganization Code®			
	S10C4C Search			
	Dataloger SN Add datalogger SN ©		激活 Window	
	Cancel Net		转到"设置"以激活	windows,

3.4.1.1 Basic Plant Information

Required fields:

[Plant Name] Customize the name of the plant within 2-60 digits.

[Total Module Capacity] The total installed capacity of the modules of the plant.

[Location]: The construction area of the plant, which can be selected by map positioning.

[Detailed Address] The detailed address of the plant, if the previous step is located by map, the system will automatically fill in the detailed address.

Optional fields:

[Datalogger SN] Datalogger stick/box SN number.

[Plant Type]Select the type of power station including: Residential Plant, Commercial Plant, Utility Plant, and Energy Storage Plant.

[Organization Code] The organization code of the current user, which cannot be changed.

3.4.1.2 Tariff management

This function sets the feed-in tariff.

[Tariff type]Select tariff type including: fixed tariff and peak/valley tariff.

To select a fixed tariff, you need to enter the revenue per kWh in USD/kWh.

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

Selecting peak and valley tariffs can set tariffs in segments.

Feed-in Tariff					Use of company ta
ariff Type					
Peak-valley Tariff					
Date Range : 🖾 01-01	☐ 12-31				τ
Start Time : 00:00:00	End Time : 24:00:00	Tariff : Enter Tariff per kW	USD/kWh	Add Time	
		+ Add Date			

3.4.1.3 Associated Accounts

Add owner:

- 1. Owner permission: you can edit and view this plant.
- 2. Requirement for adding: there is only one owner for one plant.
- 3. Adding steps:
- (1) Click the $[\oplus]$ button in the plant owner's column.

Basic Information	>	O Tariff Management	>	Associated Account	>	(4) More Information	
Plant Owner@							
Set owner, one owner for one p	lant						€
Plant Guest⊚							
Add guest, a plant can have mu	ltiple guests						\odot
			Previo	Next			

(2) Fill in the owner's e-mail address and click [Next].

Basic Information		 Tariff Management 	>	3 Associated Account	>	(4) More Information	
Plant Owner							
Set owner, one owner for one pl	lant						
Email Reminder: Both registere	d and unreg	istered email addresses can be filled in Nex					
Plant Guest®							
Add guest, a plant can have mu	Add guest, a plant can have multiple guests						
			Previo	Next			

(3) If the owner has already registered, the system will display the user name, click [Confirm association] will be added successfully.

Basic Information	>	O Tariff Management	>	6 Associated Account	>	④ More Information
Plant Owner@						
Set owner, one owner for one p	lant					
< User Name						
		Cont	firm association	n		

(4) If the owner has not registered, the system will prompt the owner is not registered, will register a new account, click [Register and associated] will be added successfully, thus forming the identity of the owner of the new account can be logged in to use the platform, the system will send the account number and password to the user via email.

Basic Information	>	Tariff Management	>	6 Associated Account	>	④ More Information
Plant Owner@						
Set owner, one owner for one p	olant					
< The owner has not registere	d and will reg	gister a new account (,			
Register and associate						
Whether to notify the optimized in th	owner by er	nail 💿				

Add guest:

- 1. Guest permission: you can view this plant, you can't edit the information of the plant.
- 2. Requirement to add: users who need to view data from this plant, multiple guests per power station possible.
- 3. Adding steps:
- (1) Click the $[\oplus]$ button in the Guests section of the plant.

Basic Information	>	 Tariff Management 	>	Associated Account	>	(4) More Information	
Plant Owner@							
Set owner, one owner for one p	lant						Ð
Plant Guest@							
Add guest, a plant can have mu	ltiple guests						Ð
			Dre	vious			

(2) Fill in the guest's e-mail address and click [Next].

Basic Information	>	O Tariff Management	>	Associated Account	>	④ More Information	
Plant Owner®							
Set owner, one owner for one	plant						Ð
Plant Guest@							
Add guest, a plant can have m	ultiple guests						
Email Reminder: Both registe	red and unreo	istered email addresses can be filled Net					
			Pre	evious Next			

(3) If the guest has been registered, the system will display the user name and e-mail, click [Confirm association] will be added successfully.

(4) If the guest has not been registered, the system will prompt to fill in the user name, fill in the completion of the click on the [register and associate] will be added successfully, thus forming the identity of the owner of the new account can be logged in to use the platform, the system will send the account number and password to the user via email.

Basic Information	>	O Tariff Management	> 3	Associated Account	>	(4) More Information
Plant Owner@						
Set owner, one owner for one	plant					
 < The owner has not register Register and associate Whether to notify the output 			-			
< User Name		Con	firm association			
			Previous	Next		

3.4.1.4 More Information

Optional fields:

[Installer E-mail] The e-mail address of the plant installer.

[Installer Phone Number] The phone number of the installer of the plant.

[Number of Modules] The total number of modules used in the plant.

[Grid connection type] Select the type of grid connection including: full grid connection, self-generation and self-consumption balance connection, and off-grid connection.

[Grid connection time] System generated: the first grid connection data generation time after the creation of the plant; customized: the actual grid connection time after the user has customized the time shall prevail.

[Plant Contact] Enter the phone number of the plant contact.

[Plant Picture] Upload no more than 9 pictures in 700kb format.

[Access Platform Time] System Generated: the first grid connection data generation time after the plant is created; customize: the user customizes the access platform time to prevail.

3.4.1.5 Batch Import

The upper right corner of the interface can be operated by batch importing plants, click [Download Template] to export the Excel template for batch importing plants, according to the template, fill in the plants that need to be imported correctly and save it; click [Batch Importing Plants], select the Excel file that has been filled in before and upload it.

3.4.2 Plant Created Successfully

After the information is filled in completely, click [Add Plant]. When the plant is added successfully, the display interface is as follow:



3.5 Add Datalogger

After adding the plant, you need to add the datalogger used by the plant, and upload the data collected by the datalogger to the platform in order to realize the management of plant, data. The specific operation steps are as follows:

and the second sec	solis			🖾 Large Screen 💮 MSG	⑦ Help <a>F		
	11>	• 11 ID : 1BD079 Last Update : C		Plant Report Mo	dify Information Add datalogger More \vee		
壆	Overview	50%			Ning Bo Shi		
8	Layout		Daily Yield	Monthly Yield	↔ Weather Clear~Cloudy ↔ Sunrise & Sunset		
<table-cell></table-cell>	Info	20% 80%	● 0 kWh ≈0USD	0 kWh ≈0USD	06:36~16:54		
۲	Device		This Year Yield	Total Yield 💿	Image: Temperature Image: Humidity 0 °C~20 °C 49		
88	Alarm	0 kW	0 kWh	O kWh	P [™] Wind Direction S Wind Speed 6.82		
		0% 100% Installed Capacity : 111 kWp	≈0USD	≈0USD ⊚	Update Time : 08/12/2023 09:25:30 (UTC+08:00)		
			< 08/12/2023 > Day	Month Year Total 🗘	Plant Information More >		
		Daily Yield	Daily Earning 	Today Full Load Hours 			

- 1. In the interface of a newly added plant or a plant that needs to add a datalogger, click [Add Datalogger] in the upper right corner.
- 2. Enter the SN number of the datalogger to be added and click [Confirm] to complete the operation.

Add Datalogger	×
Datalogger SN	
Enter datalogger SN (+)	
Selected : 0	
You have not selected any dataloggers	
Cancel	rm

Note: When using the APP to add the datalogger, you can scan the QR code on the datalogger to complete the process.

4.1 Plant Management

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

4.1.1 Plant Overview

N. C.	🛣 SOLİS 🖾 Large Screen 💬 MSG 🕐 Help 🖻 🌔 demo account 🔻 📩								
	Overview	Plant Overview C						Add Plant	
爭	Plant Overview	👩 Current Power	Oaily Y	field	in Monthly Yield	🧆 Total Yield			
٦	Device Overview	0 w	O kWh		O kWh		O kWh		
飁		Installed Capacity: 111kWp	Daily Earning	g: OUSD	Monthly Earning : 0USD		Total Earning : OUSD		
۲		Plant List Plant Location	Plant Chart			Search for D	lant Name/Ad Searc	ch Export	
88						Search for P	Search Search		
		Total(1) Online(0)	Alarm(0)	Offline(1)				Filter 🔨	
		My Favorites	Plant Display			Plant Type			
		Select favorites	✓ Mine ✓			Select plant type 🗸 🗸		~	
		Investment Type		Grid Interaction Type			Installed Capacity		
		Select investment type		Select grid connection type \sim		Min Capacity kWp – Max Capacity kWp		kWp	
	Choose region			Organizational Structure		Project Company			
		Select region		Select organization		Enter project company			
	Search Reset						激活 Window 转到"设置"以激活		

[Plant Data Display]

Users can view the basic information of the total plant, please refer to the following table for specific information description:

Basic Information	Information Description
Current Power	Click to see the real-time power number, installed capacity and
	full hours of operation of the total plant.
Yield	Click to view daily, monthly and cumulative yield details for the
	total plant.
Earning	Click for details of the total plant's current day, month and
	cumulative earnings.
Full Load Hours	Number of hours of full load generation from the plant in a day.

[Add Plant]

Users can add a plant to be created in this interface, please refer to section 3.4 for specific operation.

[Search plants]

Users can search for a specific plant according to their own needs by entering the name or address of the plant and clicking [Search] to complete the search.

[Filtering Plants]

Users can use the filtering function to sort and search for power plants, the main categories include: Favorites, Plant Display, Plant Type, NMI, Grid Connection Type, Total Module Capacity, Selected Regions, and Organization.

4.1.2 Plant Information

Click on a specific plant to view specific information about the plant and manage it individually.

AN A	solis			🖾 Large Screen 💮 MSG	🕐 Help 🚹	demo account 🔻
	-	ID : Last Update : 5Min Age	C C	Plant Report Mo	dify Information Add da	talogger More V
爭	Overview	50%			Ning Bo Shi	Calibrate Energy
٦	Layout		Daily Yield	Monthly Yield	Weather Clear~Cloudy	Calibrate Earning Delete plant
<table-cell></table-cell>	Info	20%	● 0 kWh ≈0USD	tite 0 kWh ∞0USD		Operation Log Plant large screen
۲	Device		This Year Yield	Total Yield ☉	0 °C~20 °C	Recalculate Adjustment Earning
88	Alarm	0 kW	= 0 kWh	O kWh	P Wind Direction	6.82
		0% 100% Installed Capacity : 111 kWp	≈oUSD	≈0USD ⊘	Update Time : 08/12/202 (UTC+08:00)	23 09:25:30
			< 08/12/2023 > Day	Month Year Total 🗘	Plant Information	More >
		Daily Yield 0 kWh	Daily Earning o USD	Today Full Load Hours 0 h		
					// 28535 Win 	dows #

[Viewing the overview of the plant]

Users can view the basic information of the plant, please refer to the following table for specific information description:

Basic Information	Information Description
Current Power	You can view real-time power, installed capacity and full load hours of the plant can be viewed.
Daily Yield	You can view the plant power for each 5 minutes and energy yield of the current day
Monthly Yield	You can view the amount of energy yield and the earnings of the plant for the day and current month.
Annual Yield	You can view the amount of energy yield and the earnings of the plant for the month and current year.
Total Yield	You can view the amount of energy yield and the earnings of the plant for the current year and cumulatively.
Weather	You can view the day and night weather, temperature, sunrise and sunset times, humidity, wind direction, and wind speed at the location of this plant.
Environmental Benefits	You can view the equivalent number of green plants and CO ₂ emissions reduced by using the plant.
Alarm Information	You can view the historical alarm information of the plant, which can also be seen by clicking on the [Alarm] interface of the plant.
Plant Information	You can view the Plant States, Installed Capacity and Earning per kWh.
Location	You can view the exact location of the plant and zoom in and out by rolling your mouse over the map.

[Modify plant information]

Users can update and modify the information set when adding a plant in two methods:

Method 1: Click [Modify Information] in the upper right corner of the [Overview] interface of the plant to operate.

Method 2: Click [Modify Information] in the upper right corner of the [Info] interface of the plant to operate.

[Delete plant]

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

[Manage Devices]

Users can add and edit the devices used in the plant.

① Add device: You can add the equipment of this plant by adding collector, please refer to 3.5 Add Datalogger for specific operation steps.

② Edit devices: Click on the [Device] interface of the plant to view the inverters, dataloggers and EPMs under the plant, and users can edit and manage the devices in this interface.

[Calibrate Energy]

Users can manually calibrate the power generation of the plant, details can be seen in the tips.

Calibrate Energy		\times				
Enter offset		Save				
Yearly Yield Calibration						
iii 2023	This Year Yield : kWh					
Enter offset		Save				
Total Yield : 0 kWh						
Enter offset		Save				
Tip :						
	05、-100.005. If you want to add 1					
	i want to reduce 100kWh offset, pl	ease enter				
-100.						
	2. Daily yield calibration will affect monthly and yearly yield; Monthly yield					
calibration will affect yearly yield.						
 Calibrated yield affects revenue, and calibrated earning also affects final earning. Final earning formula: Final earning = total yield * earning per kWh 						
+ earning offset	i. Final carning – total yield " carni	ng per kwir				
+ earning offset						

[Calibrate Earnings]

Users can manually calibrate the plant earnings, details can be seen in the prompt.

[Operation Log]

Users can view the operation log 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 will jump to the interface as shown in the figure, displaying the data related to the plant.



[Recalculate]

You can recalculate the power and related data for the customer's visible equipment under the plant.

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

[Adjustment Earning]

Users can adjust the tariff for a customized time period.

Adjustment Earning	×
	1 earning, January earning = January yield * tariff, will affect total earning if
Select a time period	
12/2023	- 🗎 Long-term
* Tariff	
Enter tariff	USD/kWh
	Cancel Confirm

4.2 Device Management

Users can monitor the summary and status of the number of inverters, dataloggers and EPM devices under the account in the [Overview] - [Device Overview] interface, and click on a single device in the device list to view its detailed information and related data, and operate and manage the device.

and the second	solis	🖾 Large Screen 💬 MSG 🕜 Help 🖪 🌏 demo account 🔻
	Overview	Device Overview C
爭	Plant Overview	Inverter Datalogger EPM
٦	Device Overview	Total: 0 Total: 0 Total: 0
飁		Online : 0 Alarm : 0 Alarm : 0 Online : 0 Online : 0 Offline : 0 Offline : 0 Offline : 0
۲		Offline: 0
88		
		Inverter Datalogger EPM Meteorograph Meter Search Device SN Search
		Total(0) Online(0) Alarm(0) Offline(0) O
		My Favorites : Select favorites v Display: My Inverter v Rated Power : Min Capacity kW – Max Capacity kW
		Warranty Status: Select Search Reset
		Status Inverter SN Rated Power Current Power Today Yield Total Yield Plant Warranty Expiration Warranty Expiration
		激活 Windows 转到"设置"以激活 Windows。

4.2.1 Inverter

[View Inverter Information]

Users can view basic information such as inverter name, model, and version, as well as real-time information such as real-time power and power generation.

	solis			🖉 Larg	e Screen	© MS	G 🕜 Help	<u>م</u>	J d	emo aco	count 🔻
	Inverter Details	Inverter Plant ID : Last U	Ipdate : 137Day Ago 🖸 🏠						nverter Conti	rol	More ~
₽	Inverter 103120	Basic Information									
8	Inverter FEDCBF	Name : Inverter Es Model :	SN :			Status : •					
ш	Inverter 110CA	Warranty Expiration Time :	Warranty Status :			National S	tandard :				
0	Inverter 10110:	Inverter Version : AFCI Scheme :	Datalogger : AFCI Version : 0			Operation G100 Statu	al Time :@ us :				
88	Inverter 181215										
	Inverter 10160	Real-time Information		DC Volta	ge Curren	Power		AC	Voltage C	urrent	F
	Inverter CC103:	Current Power 3.504kW	Today PV Yield 0kWh	PV1 271.3 PV2 271.3		271W 733W		U V	218.5V 219.9V		49.99Hz 49.99Hz
	Inverter CC010ł	Today Full Load Hours 0.06h	Monthly Yield 0kWh	PV3 270.2		432W 567W		w	219.1V	4.3A	49.99Hz
	Inverter CC11(Alarm Information No alarm >	Annual Yield OkWh	PV4 270.2	V 2.1A	50799	→())→				
	Inverter CC110	IGBT temperature 39.2℃ ()(up to 175℃)	Total Yield 45kWh								
	Inverter CC010F		String Dispersion Rate 1.29%		Aore >			激活 \	Nindov	VS	
	Inverter				nore /				置"以激活		ows.

[Operation Log]

You can view the inverter's history of control logs and upgrades.

nine. National	solis		🖉 Large Screen	💬 MSG	⑦ Help	📧 🕘 demo accou	int 🔻 🧍
	< Back	Inverter					
⊕	Operation Log	Total 1 operation records				S	
٩		SN : Plant ID :				-	_
<table-cell></table-cell>		19-05-23 11:33:23 🔴 Bind Plant					
۲		(UTC+08:00) Plant Name: Device Type: Inverter SN:					- 1
88							- 1
							- 1
							- 1
						敫活 Windows	
						转到"设置"以激活 Window	s,

[Monitoring of real-time and historical inverter data]

Monitor inverter data in a date dimension by making single or multiple selections of different parameters.

Displays corresponding chart data analysis, which contains parameter analysis corresponding to the direction of DC analysis, AC analysis, Output analysis, etc., and can customize parameter grouping for data analysis.

norder News	solis		🖾 Large Screen 💬 MSG 💿 Help 🗈 🕘 demo account 💌 💧
	Inverter Details		< 08-12-23 → Day Month Year Total & Export
爭	Inverter 10312	Inverter Diagram SN:	(08-12-23) Day Month Year Total & Export
٥	Inverter FEDCB	Select (1)+ C	Daily Yield : Today Full Load Hours :
<table-cell></table-cell>	Inverter 110CA	Recommended Analysis DC Analysis AC Analysis	
۲	Inverter 10110	Output Analysis	
88	Inverter 18121	Inverter(1) ~	
	Inverter 10160	DC Voltage DC Current	
	Inverter CC103	DC Power	*
	Inverter CC010	U_AC Voltage	► No data available
	Inverter CC110	W_AC Voltage	
	Inverter CC110	V_AC Current	
	Inverter CC010	W_AC Current AC Output Frequency	
	Inverter		激活 Windows 转到"设置"以激活 Windows。
	< 1/2 >		

[Inverter Control]

You can remotely control a single device, change the current state or parameters of the device, and set the grid parameters, EPM, inverter function, inverter parameters, inverter power, voltage ride-through, and so on.

						Inverter Control	
Basic Information							
Name : Inverter 🗹	SI	N :		Status : Offlin	e		
Model :	PI	ant :		Rated Power : 3	0kW		
Warranty Expiration Time :	w	arranty Status : Under wa	ranty	National Standar	d :		
Inverter Version :	Di	atalogger :		Operational Time	e:@		
AFCI Scheme :	AI	FCI Version : 0		G100 Status :			
Real-time Information							
				rent Power	АС U	218.5V 4.3A	
Current Power 3.504kW	Today PV Yield 0kWh		PV2 271.3V 2	7A 733W	v	219.9V 4.3A	49.9
Today Full Load Hours	Monthly Yield		PV3 270.2V 1	.6A 432W	w	219.1V 4.3A	49.9
0.06h	0kWh		PV4 270.2V 2	.1A 567W			
Alarm Information	Annual Yield 0kWh			→(اً)→		
IGBT temperature	Total Yield						
39.2°C ()(up to 175°C)	45kWh						
	String Dispersion Rate						
	1.29%				(94)千)	1 A 7 1	
			More >			Windows 置"以激活 Win	dows
ic Info SN : Plant :		Name : Inverter Status : • Online	More >	Model :			idows
c Info SN : Plant :			More >	Model :			dows
c Info SN :		Status : • Online	More >	Model :	设"任辞		
c Info SN : Plant :	5	Status : • Online			设"任辞	置"以激活 Win	
c Info SN : Plant : Search Control	5	Status : • Online			设"任辞	置"以激活 Win	
c Info SN : Plant : Search Control on/off	5	Status : • Online			设"任辞	置"以激活 Win	
c Info SN : Plant : Search Control on/off Inverter Special Function Setting	5	Status : • Online			设"任辞	置"以激活 Win	
ic Info SN : Plant : Search Control on/off Inverter Special Function Setting > Grid Parameter Setting	5	Status : • Online			设"任辞	置"以激活 Win	
ic Info SN : Plant : Search Control on/off Inverter Special Function Setting > Grid Parameter Setting EPM Setting	5	Status : • Online			设"任辞	置"以激活 Win	
c Info SN : Plant : Search Control on/off Inverter Special Function Setting ofrid Parameter Setting EPM Setting Planter Function Setting	5	Status : • Online			设"任辞	置"以激活 Win	

[Inverter Upgrade] Implementation of upgraded inverter firmware version for internal personnel only.

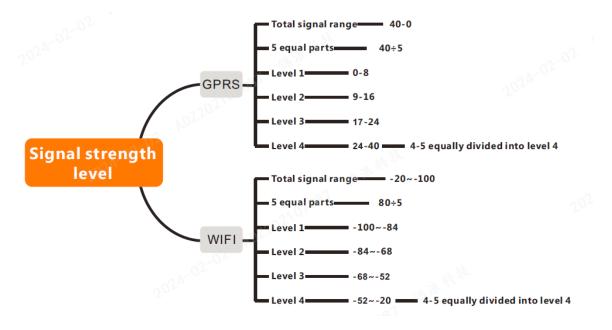
4.2.2 Datalogger

[View Datalogger Information] Users can view detailed information such as datalogger name, version, factory time, etc. You can also view the signal strength of the current datalogger and information of the corresponding inverter, EPM, weather meter, and meter.

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	Datalogger Details	Datalogger ID: Last Update : 1Min Ago C	Unbind More V
壆	Datalogger 7A1231	Basic Information	
8	Datalogger CC5A	Name : Datalogger 🗹 SN :	Status : Online
鬥	Datalogger 40422	Type : WiFi 🎓 SSID:	LAN IP : Data Source :
۲	Datalogger CC40		
88	Datalogger CC40 ⁻	Details	RSSI < 08-12-23 >
	Datalogger CC4(Datalogger Version : Date of Factory :	%
	Datalogger CC40	Mac : Production Date :	100
	Datalogger CC5	Power-On Time : 50h45m Data Upload Cycle : 5m0s Total Operation Time : 10581h6m	40 Low Signal Zone
	Datalogger CC1-		0 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00
	Datalogger CC40		-o- Signal
	Datalogger CC40	Inverter EPM Meteorograph Meter	
	Datalogger	Current	激活 Windows
	< 1/2 >	Status Inverter SN Rated Power Carlein Content Today	Yield 章 Total Yield 章 Plant 转 Warranty 通话 WinList LS @

[Parameter Information]

[RSSI] Shows the strength of the current datalogger's data signal.



[Total Operation Time] The total operation time of the registered datalogger.

[Data Upload Cycle] Time interval of data obtained by logger, the default interval is 5 mins. [Power-on Time] The daily operation duration of the datalogger.

[Related Operation]

[Search Datalogger] Search according to the name or SN of the datalogger.

[Filter Datalogger] Filter and view the datalogger list.

[Unbind Datalogger] Unbind the connection between datalogger and plant.

[Change Datalogger] Complete through entering the SN of changed datalogger.

4.2.3 EPM

[EPM]Users can view the basic information of the device, load, and grid side as well as the real-time data display of the device's inputs and outputs from different sides.

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EPM Details	EPM Plant ID : Last Update : 59Min Ago C	
EPM cc11 Cc21 EPM Cc21 Cc21 EPM Cc20 Cc00	Back Information Name : EM 8: Post : - > EM 9: Data Data Post : - Data Data Data Post : - Data Data Data Post Data Data Data Data Data Data Data Da	Grid Power from Grid 1 28W Energy Expected 1 8873MMb Energy Imported 1 38130MMb
ø		U V W Total
88	EPM Prover limit percentage : 100% Connect sensor radio : Fattales : ON Eachfore Prover: 4.18W G100 Status : -	Voltage 2463 V 241 V 241 2 V Carrent 135 A 124 A 123 A Active News 2200 W 2200 W -73 W Power Factor 0.32 Gold Insequence 53 %
	EPM Chart Sr:	(0.12.21) (b) We find 2.6 per 100 170 170 170 170 170 170 170

[Parameter]

[Power Limit Percentage] Used for limiting the inverter's output power, a percentage based on rate d power.

[CT Ratio] Ratio between primary current and secondary current.

[FailSafe Status] When the output power limit function and failsafe function are activated, the inverter will automatically set the output power to zero to avoid sending power to the grid if the inverter loses communication with the METER/EPM/CT.

[Backflow power] When using the output power control function, you can set the maximum limit of power allowed to be injected into the grid.

[Power Factor] Factor used to show the efficiency of the inverter, equal to the ratio of the active power to the apparent power.

[Related Operation]

[Search for EPM] Search for EPM according to name or SN.

[Filter EPM] Filter selection of EPM for certain applied conditions according to the current status of device.

[Delete EPM] Delete EPM from the plant.

Overview	Device Overview	NC									
Plant Overview	Inverter			Data	alogger			EPM			
Device Overview	(J	Total : Online Alarm : Offline	9 1			Total : 21 Online : 12 Offline : 9			Total : 3 Online : 2 Offline : 1		
		online(2)	Meteorograpi	h Meter					Search Device SP	Se	arch
	Total(3)	Online(2)		h Meter					Search Device SP	Se	arch
	Total(3)	Online(2)	● Offline(1) ③	h Meter Total Energy Imported		C Datalogger	Plant	Failsafe Status	Search Device SM	Operation	arch
	Total(3) Failsafe Status : Selec	Online(2) t EPM switch	Offline(1) (0 Search Reset	Total Energy	Total Energy	C Datalogger	Plant	Pailsafe Status On			
	Total(3) Failsafe Status : Selec Status	Online(2) t EPM switch	Offline(1) (0) Search Reset EPM Power (1)	Total Energy Imported	Total Energy Exported				Last Update 0 14-08-22 19:53:39	Operation	

4.3 Operation & Maintenance

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

4.3.1 Alarm Information

Users can check whether there is any abnormality in the operation of the plant devices under the account in the alarm information, and they can also check all the alarm information of the plant devices under the account.

Alarm information processing status classification, including unprocessed information, processed information, restored information, etc., can also be filtered according to the time period; alarm information, the system will assess the level and provide recommendations for processing, the user can be based on the recommended processing of the alarm information for the corresponding processing.

08:M	Alarm Infor	rmation 💧								Push Settin	g Expo
Alarm Information	My Favorites :	Select favorites V	Status : Pending	 Alarm Grade 	: Select Status	 Alarm Durat 	tion : Min Capacity	h – Max Capa	city h		
IV Curve Diagnosis	Select Time :	Start Time - I	End Time Plant	Name : Enter plant name	Inverter SN :	nput SN	Alarm Message :	Input alarm content	Search	Reset	
Dispersion Rate Anal	Grade	Status	Plant Name	Inverter SN	Alarm Message	Alarm Code	Resolution Method	Alarm Duration	Start Time	Recovery Time	Operatio
	Warning	Pending			Abnormal commu	1D4C2	Scenario 1: Check	11d	28-11-23 10:00 (U	-	Operati
		Pending			reserved	186C7		19d 4h	19-11-23 16:22 (U		Operat
	Warning	Pending			BAT-DOC	1058	1. Please check if	23d 17h	15-11-23 10:43 (U		Operat
					tal 3 10/page 🗸	_					

[Search Alarm] Enter the name of the plant to be operated, the SN number of the inverter, or the content of the alarm in the search box at the upper right corner of the page and click [Search] to finish.

[Filter Alarm] You can filter alarm messages by favorites or alarm message status. [Ignore Alarm] Users can customize whether to ignore the unprocessed information that does not affect the normal use of the device, click on a single alarm message and the system will pop up the alarm details, click [Ignore] to complete the operation. [Delete Alarm] Users can delete the alarm information by themselves, either by clicking on the alarm details that appear after a single alarm message for deletion, or by clicking on the single alarm message on the right side of the [Operation] option for deletion; users can click on the clear symbols at the back of the alarm information to delete all the information.

[Export Alarm]Users can export alarm information and generate forms.

[Alarm Push Setting] Users can choose to set alarm notification by clicking [Push Setting] in the upper right corner of the interface and selecting [Allow Notification] to turn on the function.

 Push notification: Users can choose to push the degree of urgency of the alarm and the speed of the message notification time according to their own needs.
 Mailbox notification: Users can define the receiving mailbox according to their own needs and choose whether to turn on mailbox notification.

4.3.2 PC IV Curve Diagnosis

The neural algorithm is used to analyze the pattern of string IV curve and realize the full monitoring of string IV curve.

[Operation Premise]

- 1) The device to be scanned is in the state of normal connection.
- 2) String information must be correct.
- 3) It does not support scanning residential inverters with optimizer.
- 4) Only support scanning single crystal PV module and polycrystalline PV module.
- 5) Only inverters with this function can be diagnosed after checking the box.

[Hint]

- 1) It is suggested during 11:00-13:00.
- 2) It not recommended above 50 pcs at once (about 15 minutes).
- 3) It will affect power production during the examination (about 5 minutes).

[IV Curve Scanning Operation]

1) Function Location: Click [O&M] - [IV Curve Diagnosis]; if the equipment meets the IV curve scanning model, then click [Equipment Details] - [IV Curve Diagnosis] to perform the operation.

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	0&M	IV Curve Diagnosis								Start Diagnosis
爭	Alarm Information	Task Name : Input task name	Diagnosis State : Choos	e diagnosis 🖂 Diagnosis time :	🛗 Start Time - End Time	Search Reset				
٥	IV Curve Diagnosis	Task Name	Diagnosis State	String Number	Number of the error string	Diagnosis time	Remarks		Oper	ation
國	Dispersion Rate Anal	DEMO	Closed(2Min)	-	-	29-06-21 14:49 (UTC+08:00) To	DEMO		Ор	eration
۲				Total 1 10/p	age $ \lor $ (1) Go to	1				
88										

2) Select the device to be diagnosed, click OK to start scanning and generating the report.

Start Diagnosis	×
* Task Name	
Input task name	
* Select Device	
Select Device	
Wiping Status	
Choose wiping status	\sim
Plane Irradiance of module(W/m2)	
Input plane irradiance of module	
Temperature of the module's backboard (°C)	
Input temperature of the module's backboard	
Remark	
Input remarks	
	0/255
激活 Windows	
转到"设置"以激活 Windows。 Cancel	

3) You can view the current diagnostic progress and records.

4.3.3 PC Dispersion Rate Analysis

Dispersion rate is an indicator that describes the change of string current, which is used to assess the consistency of the power generation performance of PV strings, and can effectively reflect the health status of plant operation. The smaller the dispersion rate is, the more stable the operation of the plant is, and the better the power generation condition is. On the contrary, it indicates that there may be faulty branch circuits, which may affect the power generation.

[Operation Premise]

- 1) The time interval for discrete rate calculation is from 10:00 to 14:00 every day, please check the discrete rate analysis result of the plant on that day after 10:00.
- 2) The number of strings connected to the inverter is greater than or equal to 6.
- 3) The real-time power of the inverter is greater than 10% of the rated power.

[Hint] If there are some strings not connecting to PV panels, or their connected power is far different from others, it is not recommended to add these strings to the dispersion rate analysis (click on these strings to set).

[Operation]

1) Function location: Click [O&M] – [Dispersion Rate Analysis], and you can also view the dispersion rate curve data in the parameter data of a single device.



Based on the empirical judgment of the following data intervals, on-site field troubleshooting is performed for strings with 0 string current and strings with significantly low current.

Abnormal	20% and above	10-20%	5-10%	0-5%
Communication faults in AC combining box	Some strings might have disconnection or breakage	Some strings have obvious lower power output comparing with other strings	As a rule of thumb, some strings have low power output when the dispersion ratio is higher than 7%	Normal

- 2) You can view the string dispersion rate data of the devices under the plant, and you can also export the dispersion rate data.
- 3) Strings can be set to not participate in the discrete rate calculation.

4.4 Report Management

Users can manage the report on the [Report] interface, mainly including 4 components: Plant Report, Energy Report, Inverter Report and Customer Report.

4.4.1 Plant Report

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	Report	Plant Report Export
爭	Plant Report	Daily Report Monthly Report Annual Report Total Report
٦	Energy Report	Select Time : 🗐 09-12-23 Select a Plant : No plant selected 💛 Current Status : Select current status 🗸 Project Company : Enter project company
lãi	Inverter Reports	My Favorites : Select favorites V Search Reset
۲	Custom Report	
88		
		P.L.
		。 激活 Windows
		Select plant

[Select Time]Users can select to export the power station report for the specified time period. The choice of the time period corresponds to the type of report selected, when the report type selects the cumulative report, do not choose the time.

[Select power station]Users can select the name of the power station that needs to export the report, click [Select power station], and check the name of the required power station Click [OK] to complete; Or filter by the area or search by the name of the station.

[Select report type]Users can select the types of exported power station report: Daily report, Monthly report, Annual report, and Cumulative report.

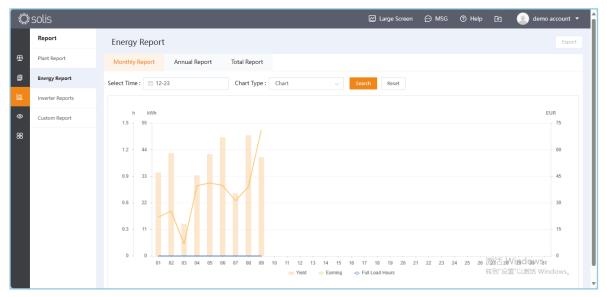
[Current Status]Users can filter the power station according to whether the station is currently online, offline or alarming.

[**Project Company**]Users can input the name of the project company to filter the corresponding power station.

[My Favorites] The user can select a favorite to display the stations in that favorite.

[Export Report]After the above selection operation 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 the [Export] operation on the far right of the list of power stations to download the data of a single power station.

4.4.2 Energy Report

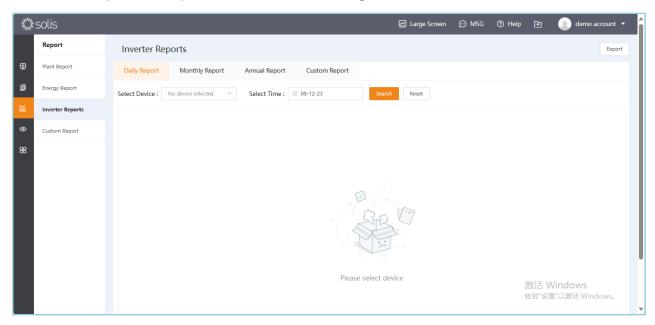


[Select Report Type]Users can select the types of exported power station report: Daily report, Monthly report, Annual report, and Cumulative report.

[Select Time]The user can select to export the power station report for the specified time period.

[Chart Type]Users can view the power generation, revenue and total full generation hours of the plant in the form of graphs or tables.

[Export report] After the above operation are completed, click the [Export] in the upper right corner, and then enter the verification code in the pop-up verification code window to export the report. Click [Download] to generate the Excel sheet.



4.4.3 Inverter report

[Select Device]Select device Users can select the device SN number that needs to export the report, click Select Device, and check the name of the required power station Click [OK] to complete; or search by device SN

[Select report type]Users can select the types of exported power station report: Daily report, Monthly report, Annual report, and Cumulative report.

[Select Time]The user can select to export the power station report for the specified time period.

[Export report]After the above operation are completed, click the [Export] in the upper right corner, and then enter the verification code in the pop-up verification code window to export the report. Click [Download] to generate the Excel sheet.

4.4.4 Customer Report

ANNA -	solis		🖉 Large Screen	💬 MSG	⑦ Help	🗈 🕘 demo account 🔻
	Report	Custom Report				
⊕	Plant Report					
٦	Energy Report	Fill in the data below to generate a report				
Ш	Inverter Reports	* Report Type Plant Report				
۲	Custom Report	Report template				
88		Select report template \checkmark				
		* Select a Plant				
		Select a Plant				
		* Reporting period				
		Day 🗸 🗎 Select Date				
		* Select indicators				
		Select indicators				
		Generate reports Save Template Reset				
						舌 Windows
					转到	」"设置"以激活 Windows。

[**Report Type**] Report type is fixed as a power station report, not optional.

[**Report Template**]Users can save the customized template, which can be directly applied in the next export, without the need to check the correlation number occupy.

[Select power station]Users can select the name of the power station that needs to export the report, click [Select power station], and check the name of the required power station Click [OK] to complete; Also filter by station area or search by station name.

[Report cycle]Users can select a day, month, month or total report.

[Select Indicator] The user can check the metrics that need to be exported.

elect indicators	0 indicators selected	Empty
Search indicators	Search indicators	
Plant information		
Datalogger information		
Inverter information		
Statistical information		
Information About National Standards		
	Select indicators	

[Generate report] After the above selection operation is completed, click [Generate report] and enter the verification code in the pop-up verification code window to guide it Publish the report, click [download] to generate the Excel table.

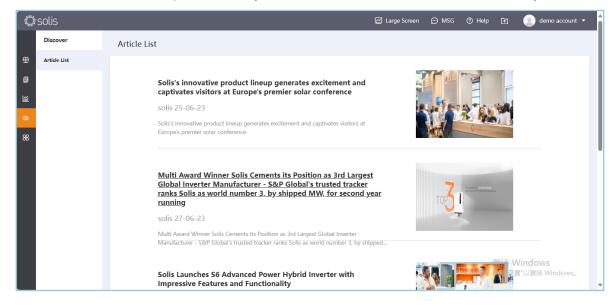
port	
Input verification code	184

[Save the 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 Solis in the [article list] in the discovery.



4.6 Service

4.6.1 Plant Management

The plant management interface mainly displays all the plants added under the account. Click the specified plant to view the specific information of the plant and manage it, specific operation steps refer 4.1.2.

324-4 2.200	solis					🖞 Large Screen 🛛 💬 M	ISG ⊘ Help 🖻	👤 demo account 🔻
	Service	Plant Managem	ent					
壆	Plant Management	My Favorites : Select fa	avorites V Rated po	wer (kWp) : Min Capac	ity kWp – Max Capaci	ity kWp Select time i	period : 📄 Start Time	- End Time
٨	Device Management	Plant Name : Enter plant			Organization Name : Enter		arch Reset	
<table-cell></table-cell>	Organization Manag	Plant Name	Owner 🗘	Organization 🌻	Installed Capacity	Power-on Time 🗘	Creation Date 🗘	Operation
۲	Warranty Query	-			10kWp		12-09-23 15:53:21 (UTC	Operation
88		100		the second se	22.234MWp		04-07-23 17:16:34 (UTC	Operation
					100kWp		19-05-23 11:29:38 (UTC	Operation
					5.85kWp		25-03-22 09:01:03 (UTC	Operation
		-			5kWp		25-03-22 17:01:03 (UTC	Operation
		-			4.1kWp		25-03-22 10:01:02 (UTC	Operation
					10kWp		25-03-22 10:01:02 (UTC	Operation
					158kWp		25-03-22 10:00:0600元	
					5kWp		非年刊 102 25-03-22 21:00:06 (UTC	置"以激活 Windows。 Operation

[Filter plant]Users can classify queries by my collection, installed capacity, and creation time period.

[Search plant]Users can search by entering the plant name, owner or organization name.

[**Operation**] The user can operate and process a single power station in this interface.

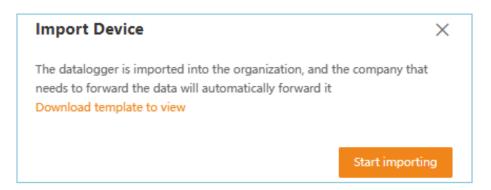
4.6.2 Device Management

The device management interface mainly shows all the collectors added under this account.

and the second	solis					🗹 Large	Screen 💬 MSG	⊘ Help ि ि	👤 demo account 🔹
	Service	Device Manag	ement						Import Device Export
₽	Plant Management	Select Time : 📋 Sele	ct month	Binding Status : Select bi	inding stat 🗸 🛛 Datalo	ogger Status : Sele	ct datalogger 🗸 🛛 Datal	ogger SN : Datalogo	er SN
9	Device Management	Search Reset		5	5		55	55	
0 0	Organization Manag	Datalogger SN	Types	Datalogger Status	Binding Plant	Assign	End-User Owner	Add date 🗘	Operation
88	Warranty Query		WIFI	Normal				17-05-23	Operation
86		and so the	WIFI	Normal				25-03-22	Operation
			WIFI	Normal				25-03-22	Operation
			WIFI	Normal				25-03-22	Operation
			WIFI	Normal	100			25-03-22	Operation
		and the second second	WIFI	Normal				25-03-22	Operation
			WIFI	Normal				25-03-22	Operation
			WIFI	Normal				25-03-22激活 V	/ind Cookfation 『以激活 Windows。
			WIFI	Normal	100 au		-	非专业引 校正 25-03-22	Operation

[Filter device] Users can filter through the specified month, bind state, and data logger. [Search]User can search by entering the SN number of data logger.

[Import Device]Users can import devices in bulk. Click[Import Equipment] in the upper right corner, the system will pop up the import confirmation guide, click [Download template view], input the data logger SN to be imported into the Excel sheet and save it, click [Start Import] then select the saved Excel sheet and click "OK" to complete the import.



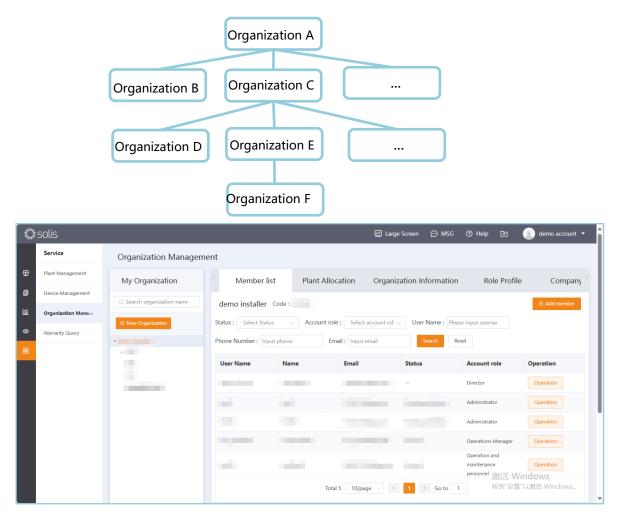
[Export Table]Users can export device data in bulk. Click [Export List Table] in the upper left corner, the system will pop up the export table.

Instruction as the above picture, if you want export the data logger list table, Click[Download Data logger information template]and fill in the SN numberof which data logger you want export and then save it, click[To import inverter table] choose the Excel table you want to save ; if you want export the inverter list table, click [Inverter information template download]and fill in the SN number of whichinverter you want export and then save it. After finishing above operations ,click the [To export list table]finish the export.

Export	×	(
To export list table		
Export		
To import datalogge	r Form	
Import the SN num template)	ber form of the datalogger first(Download datalogger information	
	omatically generate a form of information about the datalogger for	
To import inverter t	able	
	erter SN number table(Inverter information template download) stically generates a table of inverter-related information for	

4.6.3 Organization Management

According to the user scenario, the organizational structure can be created without limit, and the scale of the structure can be developed horizontally and vertically, so as to realize organizational management, distributional monitoring of the power station, and create account roles for daily maintenance and operation.



[Create Sub-organization]

Create inner organization: be appropriate for the type which has close relationship, for example: headquarter- subsidiary, company-department.

Internal organization authority: The power station information assigned by the superior organization can be modified and operated.

Create external organization: Suitable for organizations with loose relationships such as distributor/installer relationships, etc.

External organization authority: For the power station assigned by the superior

organization, only the viewing authority has no modification authority. [Create member role]click[Add member]and fill in the information and finish it.

Member l	ist Plant	Allocation (Organization Informat	ion Role Profil	e Compar
demo installer	Code: 913721				⊕ Add member
atus : Select Stat	us 🗸 Accou	nt role : Select acco	ount rol: User Name :	Please input usernar	
hone Number : Inp	out phone	Email : Input email	Search	Reset	
User Name	Name	Email	Status	Account role	Operation
				Director	Operation
				Administrator	Operation
				Administrator	Operation

Add member account(demo	o installer)	×				
* User Name						
User Name						
* Name						
Family Name	Name					
* Password						
Password		2979th				
* Account role						
To be allocated		\sim				
* Email Email (can be used as Log in ac	count)	_				
Linai (can be used as Log in ad	county					
1. L. 1	1. A. C. A.					
	Windows Create account Windows。					
Cancel	Create account					

[Role and Authority]

Administrator: The largest authority owner in the organization, with all management functions such as organization, power station, operation and maintenance.

Operations Manager : They can add, delete, modify and control the plant and equipment within the organization, and can issue and process work orders.

Operation and maintenance personnel : The organization can add, delete, modify, check and control the power stations and equipment within the organization, and can process work orders, but cannot issue work orders.

Installer : The plant and equipment in the organization can be added deleted, modified and checked, but the equipment cannot be controlled remotely.

General User: They can add, delete, and check the plants and equipment within the organization, but they cannot remotely control the equipment.

Marketing staff : Only the plant and equipment within the organization can be inspected and operated.

[Plant Allocation]The plant under the organization are selected and assigned to the subordinate organizations, and the assigned power stations are operated accordingly according to different roles.

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	Service	Organization Management					
₽	Plant Management	My Organization	Member list	Plant Allocation	Organization Information	Role Pro	ofile Company Tariff
•	Device Management	Q Search organization name / enc	Code :				
R	Organization Mana	New Organization	C Search area	C Se	arch the name of the plant		C Search the name of the plant
۰	Warranty Query	 demo installer 	Regional Filter	. A	All my plants		Organize Existing Plant
88		,	Country		a second a s		
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			new ronc Ber	<u>ه</u> ا ا			激活 Windows
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4.6.4 Warranty Query

Enter the device SN number, and the user can query the warranty life, warranty end date and warranty status of the equipment.

and it is	solis	🖾 Large Screen 💬 MSG 🔞 Help 🖪 🍥 demo account 🕶	Î
	Service	Warranty Query	
要	Plant Management	Inverter SN	
8	Device Management		
<table-cell></table-cell>	Organization Manag	17.0,	
۲	Warranty Query	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/aftersales.html	
		SN: Warranty Period: Warranty Status: Warranty Status: Total1 20/page ✓ < 1 ≥ Go to 1 激活 Windows, 特別"设置"以激活 Windows,	

4.7 Message

Users can enter the message center by clicking [Message] 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.

4.7.1 To do Reminder

Users can check and view the processed messages on this interface, and enter the push Settings to set the push content, whether the inverter is abnormal offline to push, push method and alarm message push rules.

Haliya Ka	solis			Large Screen	💬 MSG	⑦ Help	🖻 👤	demo account 💌
	Message	Todo		Todo		Notice	Push Setting	Mark all as read
⊕	Todo			Device Abnorma 28-11-23 12:14:				
8	Notice	Title	Sending time	Device Abnorma 27-11-23 12:14:				
鬥		Device Abnormal Offline Alarm	28-11-23 12:14:58 (UTC+08:00)					
۲		Device Abnormal Offline Alarm	27-11-23 12:14:45 (UTC+08:00)	26-11-23 12:14:				
88		Device Abnormal Offline Alarm	26-11-23 12:14:21 (UTC+08:00)	L	View more			
Ű		Device Abnormal Offline Alarm	25-11-23 12:14:01 (UTC+08:00)					
		Device Abnormal Offline Alarm	24-11-23 12:13:44 (UTC+08:00)					
		Device Abnormal Offline Alarm	23-11-23 12:14:56 (UTC+08:00)					
		Device Abnormal Offline Alarm	22-11-23 12:14:29 (UTC+08:00)					
		Device Abnormal Offline Alarm	21-11-23 12:15:43 (UTC+08:00)					
			Total 8 10/page < 1 > Go to 1					
							Windows 置"以激活 w	

174 K.	solis		🖾 Large Screen 💬 MSG 🕜 Help 🗗 🍥 demo account 🔹
	Message	Todo	Push Setting Mark all as read
₽	Todo		
٥	Notice	Title	Sending time
<table-cell></table-cell>		Device Abnormal Offline Alarm	28-11-23 12:14-58 (UTC+08:00)
0		Device Abnormal Offline Alarm	27-11-23 12:14:45 (UTC+08:00)
88		Device Abnormal Offline Alarm	26-11-23 12:14:21 (UTC+08:00)
~		Device Abnormal Offline Alarm	25-11-23 12:14:01 (UTC+08:00)
		Device Abnormal Offline Alarm	24-11-23 12:13:44 (UTC+08:00)
		Device Abnormal Offline Alarm	23-11-23 12:14:56 (UTC+08:00)
		Device Abnormal Offline Alarm	22-11-23 12:14:29 (UTC+08:00)
		Device Abnormal Offline Alarm	21-11-23 12:15:43 (UTC+08:00)
		Total 8 10/page 🗸 🤇	1 > Go to 1
			激活 Windows 转到"设置"以激活 Windows。

and and a second	solis		🗹 Large Scr	Push Setting X
	Message			Push Content
壆	Todo			Alarm Notification
8		Title	Sending time	Hint Alarm
Liú.			28-11-23 12:14-58 (UTC+08:00)	General alarm
0			27-11-23 12:14:45 (UTC+08:00)	Emergency Alarm
00			26-11-23 12:14:21 (UTC+08:00)	
			25-11-23 12:14:01 (UTC+08:00)	Inverter Abnormal Offline
			24-11-23 12:13:44 (UTC+08:00)	Push Mode
			23-11-23 12:14-56 (UTC+08:00)	Email Message
			22-11-23 12:14:29 (UTC+08:00)	Bind Email
			21-11-23 12:15:43 (UTC+08:00)	Alarm message push rule
			al 8 10/page ~ C 1 > Go to 1	Push now \lor
				激活 Windows
				转到"设置"[1]除近 Windows。 Cancel Save

4.7.2 Message

Users can view the maintenance reminder sent before each system upgrade and maintenance in this interface.

Anger Ander	solis		🖾 Large Screen 💮 MSG	🕐 Help 🖪 🙁 demo account 🔻
	Message	Notice		Mark all as read
⊕	Todo			
ø	Notice	Title	Sending time	
<table-cell></table-cell>		Maintenance Bulletin	20-11-23 09:11:33 (UTC+08:00)	
۲		Maintenance Bulletin	12-10-23 08:36:00 (UTC+08:00)	
88		Maintenance Bulletin	21-09-23 09:05:07 (UTC+08:00)	
		Total 3 10/page v	< 1 > Go to 1	
				激活 Windows _{转到"设置"以激活 Windows。}
Γ				HEI KE KANG WINDOWS,

4.8 Help

The help interface includes product information and frequently asked questions.

4.8.1 Product Information

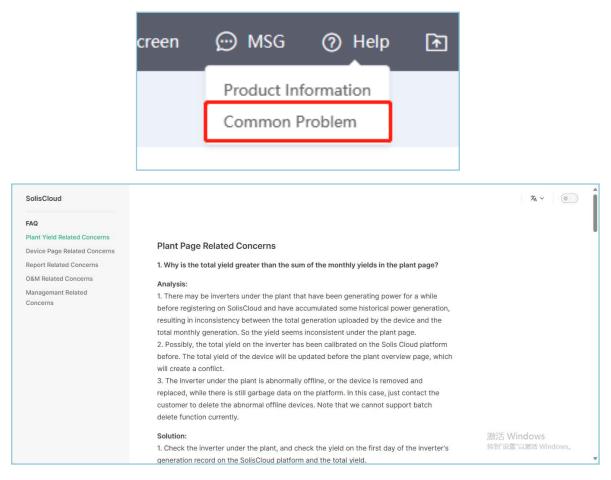
Users can download Solis Cloud user manual -organization version

And Solis Cloud user manual –organization version-owner version on product information interface.

Anger Natur	solis		🗹 Large Screen	💬 MSG	⑦ Help	æ	🧶 demo account 👻
	Help	Product Information					
壆	Product Information						
a		SolisCloud_Betriebsanleitung.pdf	⊥Download				
<table-cell></table-cell>		SolisCloud Operation Manual-OrganizationV1.1	⊥Download				
۲							
88		SolisCloud Operation Manual-UserV1.0	⊥Download				
							Windows
						转到"	设置"以激活 Windows。

4.8.2 FAQ

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



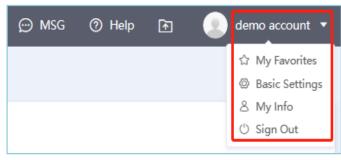
4.9 Export Center

In the export center, users can view the export records and filter the records according to the export type.

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	Export Center	Export R	ecords C				Export Center	
爭	Export Records	Select Type :	All ^					
đ		File Name	All	Туре	Amount of data	Completion Time	Status	Operation
<u>ه</u>			Plant Report Alarm Info					
88			Inverter Reports Datalogger List Plant List		P.S.			
			Device List					
					° *			
					No data available			I
							激活 Windov ^{转到"设置"} 以激活	
				Total 0	20/page 🗸 < 📘 🗦	Go to 1	1033 XE MAA/H	•

4.10 Personal Center

This module is convenient for users to manage account information and function Settings. It mainly includes four parts: My collection, basic Settings, my information and exit account.

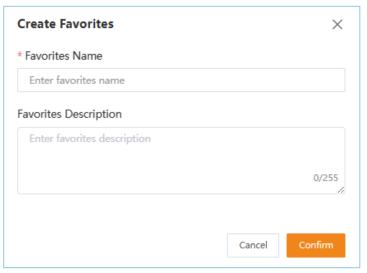


4.10.1My Favorite

In this interface, users can view all the favorites created.

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	Favorites	My Favorites				Create Favorites
壆	My Favorites	Search favorites name	Search			
٦		Favorites Name	Description	Favorites 🗘	Create Time 🗘	Operation
0		DEFAULT		0		
® 88		Favorite Plant		3	24-06-22 16:10:42 (UTC+08:00)	Operation
		Favorite Device		5	24-06-22 16:11:23 (UTC+08:00)	Operation
				Total 3 10/page \lor 1	> Go to 1	
						激活 Windows 转到"设置"以激活 Windows。

[**Create Favorites**]Enter the name of the favorite to create a new favorite, you can describe the favorite.



4.10.2Basic Setting

[Temperature]Users can customize the temperature unit, choose (°C) or (°F). [Language]Default: English.

[AI string alarm]Users can choose whether to turn on the AI string alarm according to their own needs. After turning on the AI string alarm, the system will monitor all string cascaded level faults of the plant under the account, and give feedback alarm information to the owner when a fault occurs

[Notification Period] APP push, SMS and email will only be sent in the time period set by the user, and will not be sent in other time periods.

[Environment Benefits Conversion coefficient] Users can customize the conversion of 1kWh power generation into CO2 emission reduction and the number of equivalent green plants, and can also restore the default with a key.

[System Theme setting] The default system theme color is **[**.The user can select other theme colors.

[Current Version] Users can check the current version of Solis Cloud, and APP users can upgrade the new version of the software when there is a new version released.

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	Mine	Basic Settings						
⊕	Basic Settings							
8	My Info	Temperature : O *C O *F						
國	Change Password	Language : English V						
۲	API Management	Date Format : dd-MM-yy ~						
88								
		Decimal point format(example): 123.45 V						
		Al String Alarm :						
		Notification period : Tip: APP push_SMS and Email will be sent within the notification period ~ ③ 00:00 ~						
		Time Zone Setting : $$\rm (UTC+0B:00)\ PRC$$ \sim						
		Environmental Benefits Conversion coefficient : Vield 1kWh=CO2 Emission Seved 0.997 kg						
		Viald 1kWh=Equivalent planting 0.0005538889 tree Restore Default						
		System LOGO Setting : Upload LOGO						
		PNG formats are supported. View Example Restore Default Restore Default Restore Default Restore Default Restore Default						
		the solis المراجع الم						
		System ICON Setting : Upload ICON						
		Recommended opticad 64º64 pictures. Only JPG and PNG formats are supported.						
		System theme setting :						
		Current Version : V4.1.2						
		Privacy Policy : View						
		Cancel Save						
								1

4.10.3 Mine

[**My Info**]Users can view account information such as user type, set personal profile picture, user name, mobile phone number, email address, apply for account cancellation, and bind third-party accounts.

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

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	Mine	Change Password				
壆	Basic Settings					
٦	My Info	* Old Password				
鬣	Change Password	Input old password	Prest			
۲	API Management	* New Password	Suger.			
88		Password Strength: Confirm New Password				
		Input new password again	Prest.			
		Cancel Savo				
						激活 Windows 转到"设置"以激活 Windows。

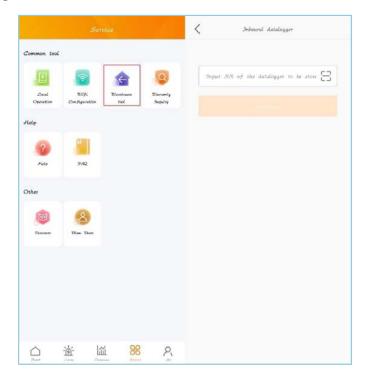
4.10.4 Log out

The user can exit the current account by clicking [Exit Account] in the upper right corner, and the page will automatically jump to the login interface. The user needs to enter the correct account password to re-enter.

4.11 Tool Management

4.11.1 APP Warehouse Tool

You can choose to import the collector into the current account. The imported collector is not bound to the power station, and the user can adjust the collector according to the situation Do station binding.



4.11.2 APP WiFi Configuration

Step 1: Mobile phone scan the QR code below to download and register Solis Cloud APP, or directly search Solis Cloud APP download in APP Store or major Android mall.



Step 2:click [more tools], click[WiFi Configuration].

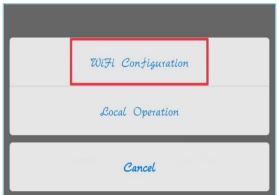
If you have logged in, please go to the "Service" page to configure WiFi.

	6		A				
				Common tool			
Usemano/Snall				Bocal Operation	2017i Configuration	ZVarehouse Tool	Warranty Inquiry
Разснога	0			Help			
Remanber	Forget Pasaword			2	H		
Log in				Halp	7 <i>4</i> Q		
🗌 5 have agreed Primey Policy	Roylutar			Other	8		
				Discover	Olew User		
		WiFi Configu	ration				
		Local Opera	tion				
Longuage	More Isola	Cancel		Plant	- Atume Over		

Step3: You need to fill in datalogger SN number manually or scan the QR code on datalogger.

🔇 Input datalogger	
Input datalogger SN	3

Step4: Select the [WiFi configuration]



Step5: According to the tips to start the configuration mode of datalogger and then click [I am sure it is flashing] to go to the next step.



Step6: Connect the data-logger network, click [to connect], go to the network setting on your phone, choose the data-logger network.

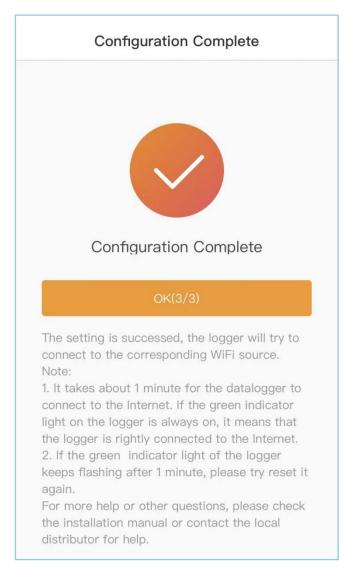
Default password: 123456789, return to App after connect successfully.

PP .	, then return to
Network WiFi1	🔒 🤝 🚺
Network WiFi2	÷ (i)
AP_	₹
Network WiFi3	e 🕕
Network WiFi4	÷ ()
Network WiFi5	÷ (j)
Network WiFi6	⇒ (i)
Cannot Find Dataloggi	er Network?

Step7: click [>], Make sure your phone is connected to the Wi-Fi router, then switch back to this page and enter the Wi-Fi password. Enter the password and click Next.

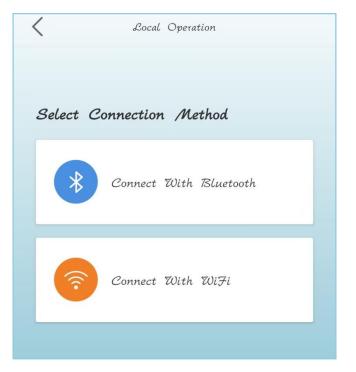
\langle	Connect to Router	view the…
Connect	to Router	
Click to	connect router	\bigcirc
Input ro	uter's password	
Hint:		
1. Connect	the phone to the router (only	supports 2.4G
band router,	does not support 5G band)	
2. Configur	ed WiFi will directly cover.	

Step8: After the router is successfully connected, the collector configuration is completed.

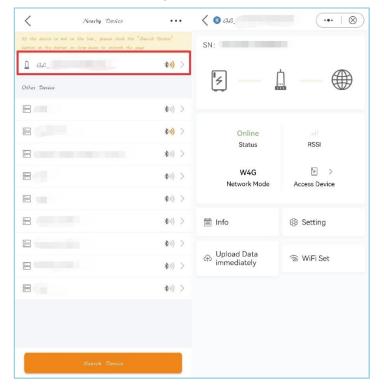


4.11.3APP nearby control

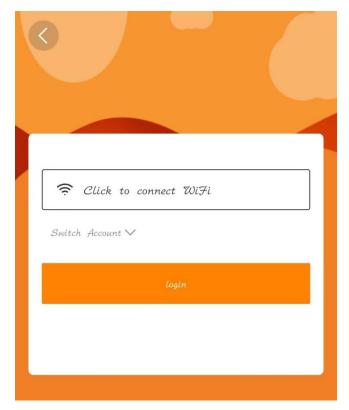
Nearby control function including Bluetooth connection and Wi-Fi connection, it can be used to debug the parameters of the equipment under special circumstances.



[Bluetooth connection]Click "Bluetooth Connection" to confirm that the Bluetooth connection state of the mobile phone is on. Click "Search Device" and the device to be debug will be displayed in the list of "Nearby Devices". Click the right arrow of the device to jump and enter the control password.



[WiFi Connection] The current WiFi connection platform provides a way to jump to the near end debugging software of Solis TechView APP: there is no APP jump to boot installation, there is the APP system prompt to open the use; Search the device under the state of normal connection of the inverter, fill in the inverter WiFi login, and enter the control password to enter the debugging interface.





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