



Online Monitoring

Web Server

Installers User Manual

V02

IMPRINT

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Copyright Statement

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Version Information

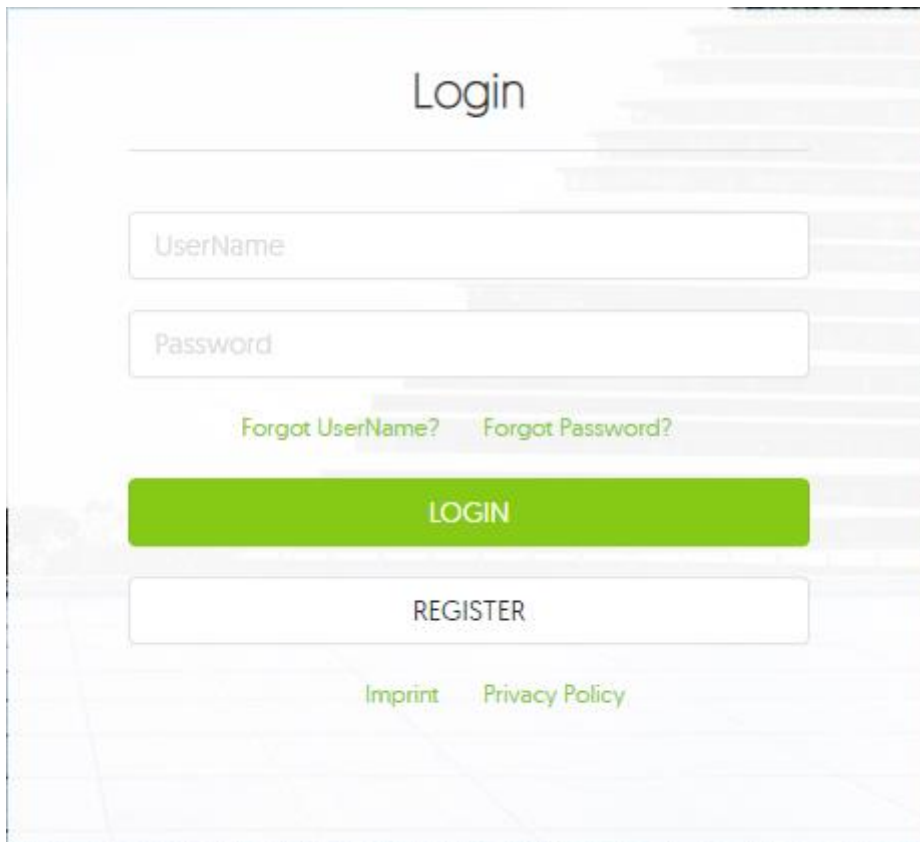
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V02	Dec. 13 th , 2018	Update

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1. Login Interface

A screenshot of a web login interface. At the top, the word "Login" is centered. Below it are two input fields: "UserName" and "Password". Under the "Password" field, there are two links: "Forgot UserName?" and "Forgot Password?". Below these links is a large green button labeled "LOGIN". Under the "LOGIN" button is a white button labeled "REGISTER". At the bottom, there are two links: "Imprint" and "Privacy Policy".

Login

UserName

Password

[Forgot UserName?](#) [Forgot Password?](#)

LOGIN

REGISTER

[Imprint](#) [Privacy Policy](#)

Enter the username and password, then click “Login” to jump to the home page. There will be a prompt after a failed login.

Users who haven't yet registered need to click “Register” to visit the registration page: (as shown below)

Register

User Type	* S/N	
End user ▼		
* Username		
* Password	* Confirm Password	
* Country/Area	Province/State	City/Town
- ▼		
Address		* Zip Code
* Language	* Contact name	* Contact Number
English ▼		
* E-mail		
Time zone		
[UTC+08:00] 珀斯 ▼		
<input checked="" type="checkbox"/> Auto upgrade enabled (The automatic upgrade function is to actively update the latest push program to improve the performance of the device when the system is running on the network.)		
<input type="checkbox"/> Agree to the above terms<<Terms and Conditions>>		
SIGN UP NOW		Back

[Imprint](#) [Privacy Policy](#)

Boxes followed by a “*” mark must be filled, and the contents you fill must consist with the facts. Registered users come in 2 types: end users and installers. Please choose between them according to the actual situation. Then you can check whether you need auto upgrade or not according to your own situation. Then Click “Login” to go to the login page.

You can select the language in the upper right corner of the page. Chinese, English and German are available at present.



If you have forgotten your password, click “Forgot Password?” on the login page.

Forgot Password

Username

E-mail

After submitting the required information, an email to retrieve your password will be sent to your mailbox. Follow the prompts to modify your original password, then click “Back” to jump to the login page.

If you have forgotten your username, you can click “User Name Forgot?” on the login page.

Forgot Username

User Type

End user

S/N

E-mail

Please fill in the registration email

SUBMIT

Back

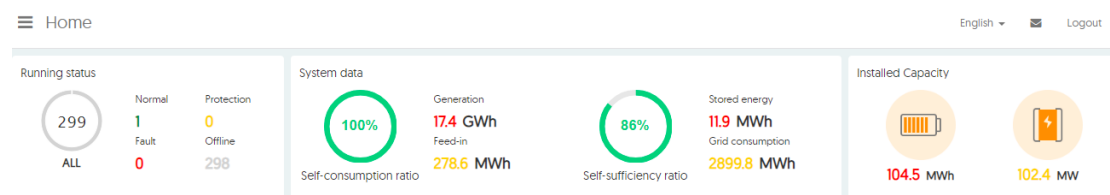
After submitting the required information, an email to retrieve your username will be sent to your mailbox. Click "Back" to jump to the login page.

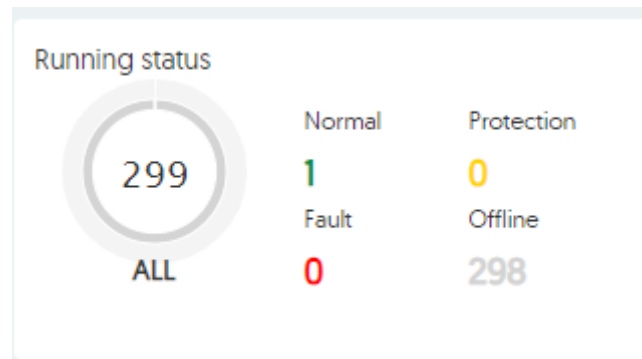
2. Homepage

2.1 Information Summary

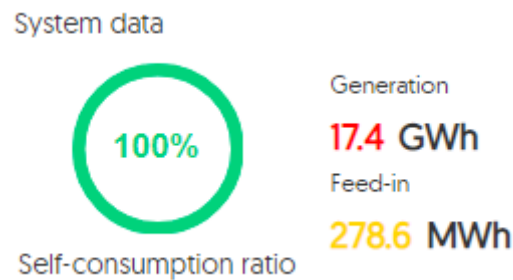
The summary of homepage information (as shown below).

From left to right, running status, system data (including self-consumption ratio, self-sufficiency ratio), installed capacity details.



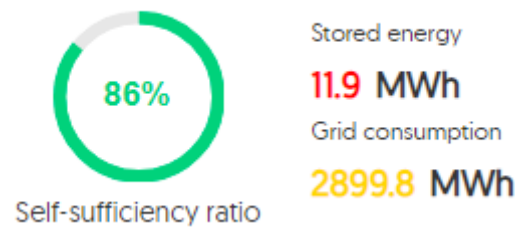


Four running statuses— Normal, Protection, Fault, Offline (As shown in the above picture)



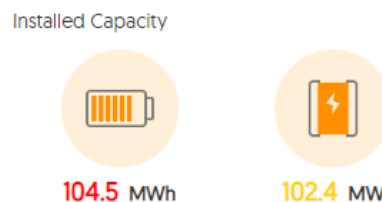
System data: users' Self-consumption ratio (as shown in the above picture)

Self-consumption ratio: (PV total generation- total electricity sold) / PV total generation



System data: users' Self-sufficiency ratio (as shown in the above picture)

Self-sufficiency ratio: (Load total consumption – total grid consumption) / Load total consumption



Equipment installed capacity (as shown in the above picture)

The picture on the left is the installed capacity of the batteries.

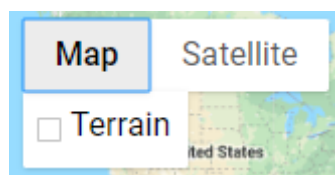
The picture on the right shows the rated power of the inverters.

2.2 Map

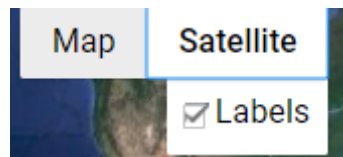


The points shown in the figure are distribution information of end users.

Terrain under the map can be checked (as shown below).



Satellite maps with labels can also be checked (as shown below).



Click the map information on the right, then a message prompt panel will show up. Click the s/n data on the information panel to jump to a new page of system's detailed information (as shown below).



There is a map zoom in and out button in the lower right corner of the map (as shown below).

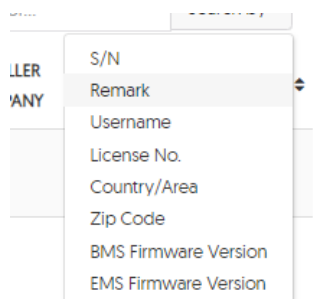


2.3 System Data

SYSTEM DATA												
COUNTRY/AREA	S/N	SYSTEM STATUS	BMS	EMS	BATTERY	INVERTER	AC/DC/HYBRID	TYPE	LICENSE NO.	INSTALLER COMPANY	INSTALLATION DATE	REMARK
China	AE0000317090017(T50)	Fault	V2.27	V5.02.47	M48112-S	V1.02	DC	off-grid	ALPHA0001123456	alpha	2018-12-03 07:07:41	
China	AK1512120700200(MarkZha10)	Normal	V1.35	V3.21.37E	M48112-P	V1.0	DC	on-grid	ALPHA0001123456	alpha	2018-09-25 02:44:41	
China	AL2002118020177	Offline	V1.60	V1.01.94	Smile5-BAT	V1.43	DC		ALPHA0001123456	alpha	2018-09-12 08:25:54	
China	AL2002118070022(Smile5p)	Offline	V1.60	V1.01.99	Smile5-BAT	V1.43	AC		ALPHA0001123456	alpha	2018-09-10 01:28:52	
China	AL2002118050217(Smile5p)	Offline	V1.50	V1.01.97	Smile5-BAT	V1.43	Hybrid		ALPHA0001123456	alpha	2018-09-10 01:28:10	
China	AL2002118030548(Smile5p)	Offline	V1.60	V1.01.99	Smile5-BAT	V1.43	DC		ALPHA0001123456	alpha	2018-09-10 01:22:49	
China	AK1501120700110(jack)	Offline	-----	V3.21.37	-----	-----	Hybrid		ALPHA0001123456	alpha	2018-08-15 11:05:22	











System data management (fuzzy queries is available): the query conditions include system S/N, remarks, user name, license NO., country/area, zip code, BMS firmware version, and EMS firmware version.

The query conditions are as shown below:



3. List of Storage Systems

3.1 System Info

SYSTEM DATA	
Sort by▼	Search by▼
All 56 Normal 10 Protection 0 Fault 2 Offline 44	
AL2002118020353	
AL2002118020310	
AL2002118020217	
AK1505120700027	
AL2002017110009	
AL2002117110182	
AL2002117110115	
AL2002017100134	
AL2002017060008	
AK16612L0700165	








The red part of the button is a share button, click it, and the page jumps to the shared personal information page. The email address is the email address of the sharer, as shown below:

Share system data

E-mail:

Days of validity:

Click each system to view system information.

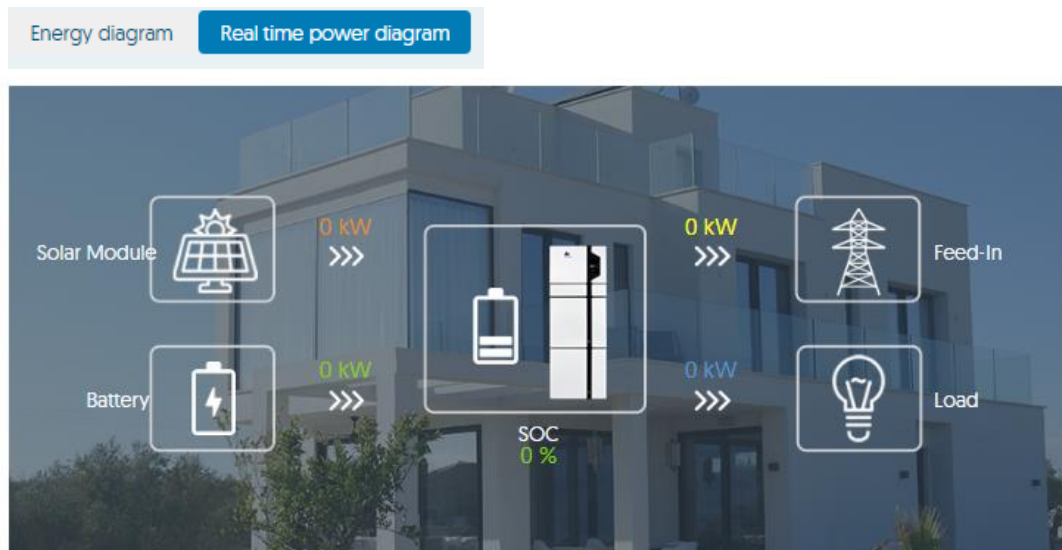
AL2002118020353	
AL2002118020310	
AL2002118020217	
 PV Panel PV Installed Capacity:5.7kW	
 Inverter Nominal Power:5.0kW	
 Battery Installed Capacity:5.7kWh Usable Capacity:5.1kWh	
 System Model Smile5-INV	
System Status: Normal	



The above figure shows the total energy graph, which can be queried according to the start time and end time;

Description:

- i. Solar Module (1.4kWh): Total solar generation
- li. Feed-in (0.1kWh): Total feed-in electricity
- lii. Red box 0.0kWh: PV charges the battery
- Iv. Green box 0.0kWh: The grid charges the battery
- V. Blue frame 1.3 kWh: Load consumption from PV
- Vi. Cyan frame 7.1kWh: Load consumption from grid
- Vii. 8.4kWh: Total load consumption



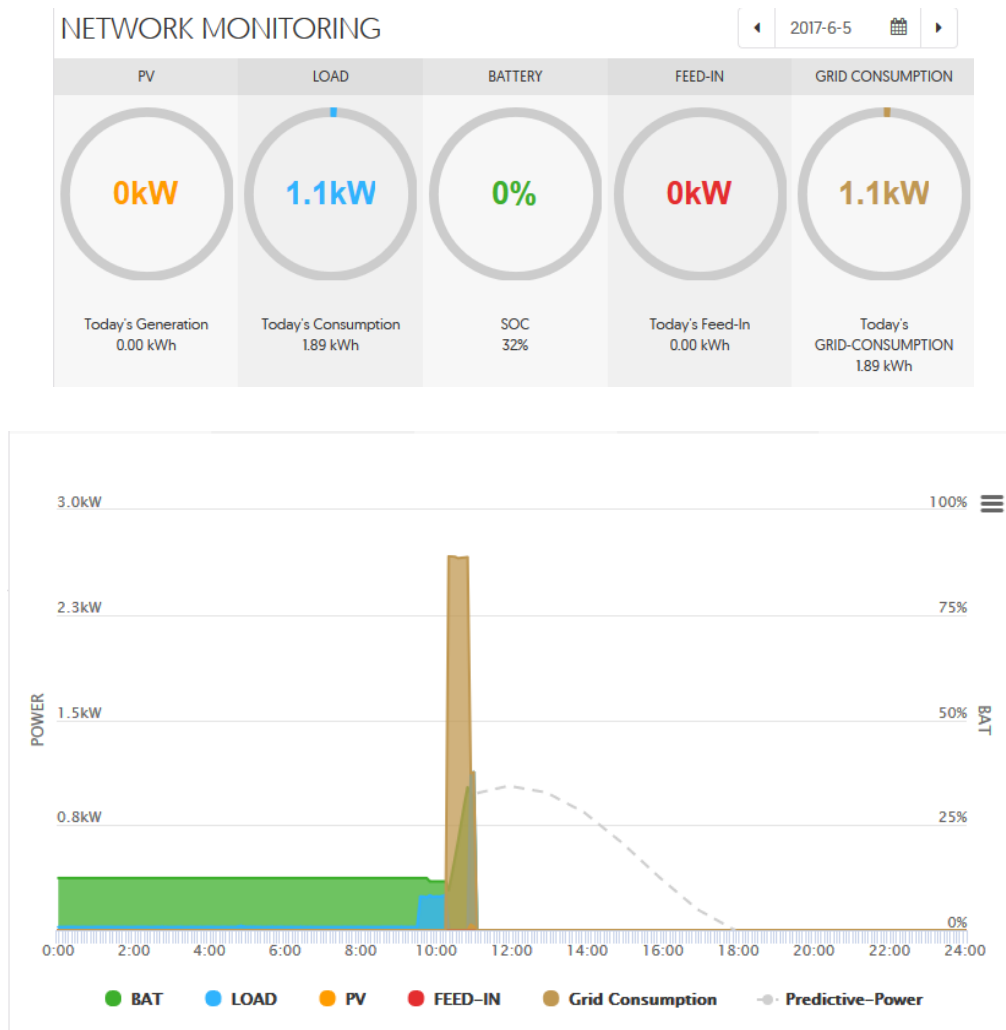
Only SMILE series products have this function.

The above figure shows the real-time power map (if the system supports the latest features);

Description:

- i. 0 kW (orange): Total solar generated electricity real-time power
- li. 0 kW (yellow): Total feed-in (grid-consumption) real-time power
- lii. 0 kW (green): Battery charging and discharging real-time power
- lv. 0 kW (blue): Load real-time power
- v. 0 % (SOC): Remaining battery capacity

3.2 Power Diagram



Click the power diagram on the home page, to view the power map for a specific time period as shown in the above figure.

Description:

Orange (PV): PV generated electricity power

Blue (LOAD): Load power

Green (BATTERY): SOC (battery remaining capacity)

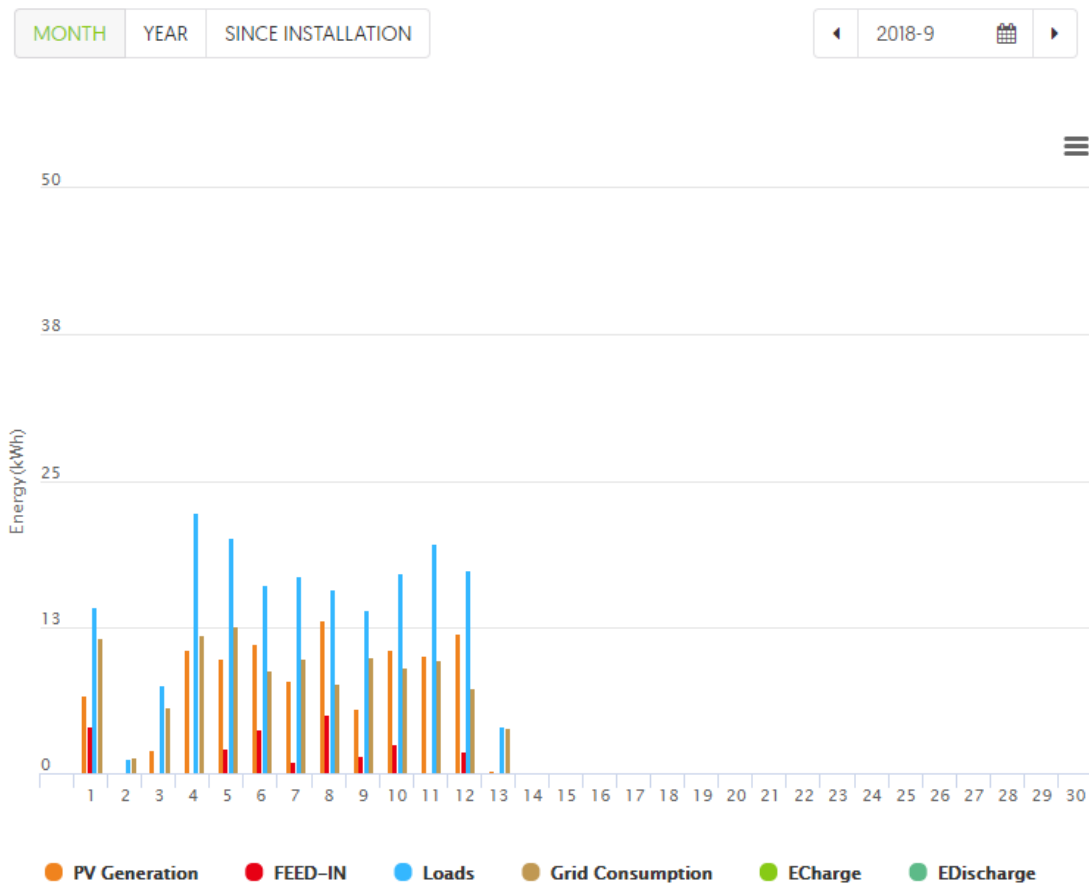
Red (FEED-IN): grid feed-in power

Brown (Grid Consumption): Actual power of the grid supply

Users can choose the date in the upper right corner to query the power data of a certain day.

The diagram of a certain period can be zoomed in.

3.3 Statistical Diagram



Click to check the S/N account. Click the home page graph to view the chart for a specific time period. Description:

Three ways to calculate, namely, by month, by year, or since the day the system was installed.

Orange (PV Generation): Total PV generation

Red (Feed-in): Total grid feed-in electricity

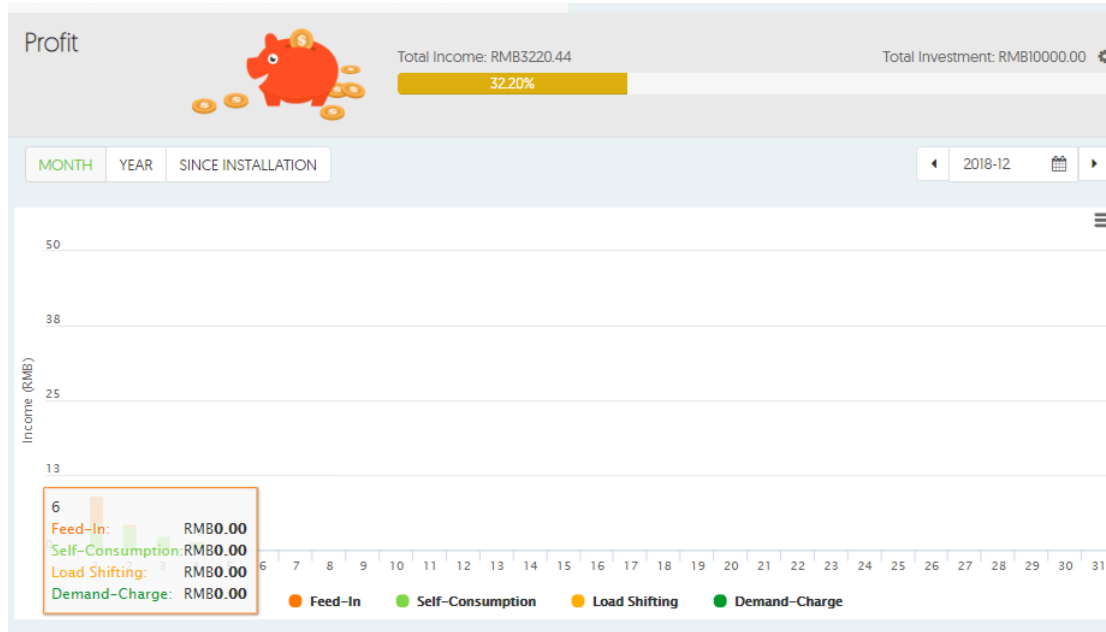
Blue (Loads): Total load consumption

Grid Consumption: The electricity purchased from grid

Green (ECharge) : Total battery charging energy

Cyan (EDischarge) : Total energy battery discharge

3.4 Profit Diagram



Click to check the S/N account. Click the home income graph to view the income for a specific time period.

Description:

The income chart can also be calculated monthly, yearly, or from the day of installation; Total Income: Total Income; Total Investment: Total Input Cost (this value can be set by clicking the button next to it); Progress bar is the ratio of total income to total cost.

Feed-in: Income from grid feed-in, if there is a feed-in tariff.

Self-consumption: Income from PV-generation

Load shifting: Income from charging the battery at low electricity price and use it at high electricity price, if there is different electricity tariff in one day

Demand charge: For demand charge management application, if there is demand charge.

3.5 System Setup

Basic Information
Inverter Information
Battery Information
Meter Model
Firmware Information
Electricity Tariff Information
Charge-/Discharge Setting
Generator Control
Backup Box
AUX Contact Settings
Other Information

SAVE

Click the S/N account you want to view and then click the energy storage system settings, as shown in the above picture. The option with a “*” must be filled.

Personal basic information, inverter information, battery information, meter model, Firmware information, electricity tariff information, charge-/discharge setting, etc. The gray box on the page can only be viewed by the user, which cannot be modified.

After modifying the data, click the Save button below.

1. The charge and discharge settings have been changed.
2. The aux contact settings have been re-arranged.
3. Other information has been added, such as " Allow synchronize time is yes or no", "Data upload frequency".

3.6 Installation Record

Installation record

* S/N	* Check Code	* License No.
<input type="text" value="AL2002118020217"/>	<input type="text"/>	<input type="text" value="ALPHA0001123456"/>
* Installation Date	* Client Full Name	* Contact Number
<input type="text"/>	<input type="text"/>	<input type="text"/>
* Contact address		
<input type="text"/>		
Remark		
<input type="text"/>		
Attachment		
<input type="button" value="选择文件"/> 未选择任何文件		

Click the S/N account you want to view and click the homepage installation record, as shown in the above picture, the option with a “*” must be filled.

3.7 Running Log

Running log

<input type="text" value="Please select a log type"/>			<input type="text" value="keyword"/>	<input type="button" value="SEARCH"/>
1	2017-05-27 10:06:45	The upgrade command successfully received a reply.[CmdIndex:]		
2	2017-05-27 10:06:45	appversion update execute; Application Type: BMS, Software Version Number: V1.07, Terminal Version Number: V1.01, SendBatchCommand result: True, AppversionRec save result: True		
3	2017-05-27 09:50:31	EMS Update: ACDC: 1 -> 2		
4	2017-05-27 09:45:31	EMS Update: BMSVersion: V1.07 -> V1.09		
5	2017-05-27 09:41:30	EMS Update: BMSVersion: V1.09 -> V1.07		

Click the S/N account you want to view and click the homepage running log, as shown in the above picture. Select the log type and enter the keyword.

5. Storage System Maintenance

5.1 Install New System

Storage System Maintenance English Logout

Install new system

* S/N

* Check Code

* License No.

* Installation Date

* Client Full Name

* Contact Number

* Contact address

Remark

Attachment 未选择任何文件

Enter the system S/N, check code, license, installation date, client name, contact number, contact address, and click the save button. The red * in front of it is required. Click the Browse button to select the attachment you want to add.

5.2 Installation Record

Installation Record									
	S/N <input type="text"/>	Installation Date <input type="text"/>	- <input type="text"/>	<input type="button" value="SEARCH"/>	<input type="button" value="ADD"/>				
SEQUENCE NUMBERS	S/N	SERVICE PROVIDER NO.	INSTALLATION PERSONNEL	INSTALLATION DATE	CLIENT FULL NAME	CONTACT NUMBER	CONTACT ADDRESS	REMARK	DOWNLOAD ATTACHMENT
1	AK1501120700110	ALPHA0001123456	alpha	2018-08-15 00:00:00	nt	369258	通州高新区		
2	AK1501120700110	ALPHA0001123456	alpha	2018-08-15 00:00:00	nt	12369874	通州高新区		
3	AK17112L0700074	ALPHA0001123456	alpha	2018-08-15 00:00:00	MarkZha4	1396288888888	沃太能源有限公司		
4	AK1501120700110	ALPHA0001123456	alpha	2018-08-15 00:00:00	nt	147258369	tzhou		
5	AK1501120700110	ALPHA0001123456	alpha	2018-08-15 00:00:00	nt	123654789	通州高新区		
6	AK17112L0700074	ALPHA0001123456	alpha	2018-08-15 00:00:00	MarkZha3	159	wtny 888		
7	AK1501120700110	ALPHA0001123456	alpha	2018-08-15 00:00:00	沃太	8888888	digub		
8	AK1501120700110	ALPHA0001123456	alpha	2018-08-15 00:00:00	查张俊	159999999	wotail23米		
9	AK17112L0700074	ALPHA0001123456	alpha	2018-08-15 00:00:00	MarkZha3	15996545555	沃太3		
10	AK1501120700108	ALPHA0001123456	alpha	2015-11-03 00:00:00	Luke	0512	11		chart.csv

The installation record query implements screening of the installer, system S/N, and a certain period of time (supporting fuzzy queries). There is a download function for attachments.

5.3 System Failure Check

System Failure Check

SEQUENCE NUMBERS	S/N	FAULT CATEGORY	FAULT INFORMATION	TIME OCCURRED	FAULT CLEARED TIME
1	AL200218050058	EMS error	Battery Disconnect	2018-12-13 10:45:28	
2	AL200218050058	EMS error	Battery Disconnect	2018-12-13 10:43:20	
3	AL200218050058	EMS error	Grid Meter Disconnect	2018-12-13 10:42:59	

System fault queries can be queried based on multiple conditional screening criteria. The Excel document function is available for the query result.

5.4 Associate Additional System

Associate Additional System

License No.

S/N

Username

To associate a new device, you need to fill in the user license number, device S/N, user name, and then click the Save button to associate the new device.

6. Other Information

6.1 System Summary Information

System summary information

Country/Area: S/N: License No.: INV:

Creation Date (Start time): - [End time]: Status: Mode:

Servicer: Zip Code: Usage time (Start time): - [End time]:

SEQUENCE NUMBERS	COUNTRY/AREA	S/N	CLIENT FULL NAME	ZIP CODE	STATUS	BMS	BMS	BACKUPBOX FIRMWARE VERSION	BMU	INVERTER SOFTWARE VERSION	BATTERY MODEL	BAT SN
1	China	AE0000317090017	T50	111	V2.27	V5.02.50	V0.00		V1.30	V1.02	M48112-S	I703000115.0.0.0.0.0.0.0.0.0...
2	China	AK1512120700200	MarZha10	226300	V1.35	V3.21.37E		V1.14	V1.0	M48112-P	I810090113.0.0.0.0.0.0.0.0.0...
3	China	AL200218020177		113	Offline	V1.60	V1.01.94	0.0.0		V1.43	Smile5-BAT	I7090008416.0.0.0.0.0.0.0.0.0...
4	China	AL2002180700022	Smile5p	215000	Offline	V1.60	V1.01.99	0.0.0		V1.43	Smile5-BAT	I7090008416.0.0.0.0.0.0.0.0.0...

Enter the country, system S/N, license NO., INV, creation date, running status, working mode, servicer and zip code to query the required information. You can export the excel file by clicking the EXPORT button in the red box.

7. Basic Settings

7.1 Notifications

Notifications



Message Subject: From: To:

SEQUENCE NUMBERS	MESSAGE SUBJECT	RECEIVED DATE	SENDER	OPERATE
1	test	2018-09-11 09:32:38	AlphaService	<input type="button" value="Delete"/> <input type="button" value="View"/>

Enter the message subject, start time, and end time to click the query to view the message.

Click the delete or view button in the red box, which can either delete the line or view the detailed information.

7.2 User Information Settings

* Username alpha	License 
* E-mail Required	* Country/Area China(中国)
Province/State	City/Town NanTong
Address 1	* Zip Code 215000
Language English	Contact name Sales
Contact Number 0086-(0)512-68287609	
Profile Picture  未选择任何文件	
Allow remote dispatch <input type="checkbox"/>	

SAVE BACK

Enter the username, E-mail address, country/area, province/state, city/town, detailed address, zip code, language, contact name, contact number, click to upload the profile picture, and click Save to complete the user information settings.

Click Back to return to the homepage.

7.3 Change Password

 Basic Settings

Change Password

Old password

New password

Confirm new password

SAVE

Enter the old password and a new password twice, then click "Save" to change password.

8. Customer Feedback

When users click “Customer Feedback” in the menu bar on the right, the after-sales processing system will be opened automatically.

9. Imprint

Click “Imprint” and the page will automatically jump to a new page about "Imprint"

10. Privacy Policy

Click “Privacy Policy” to jump to a new page. Check out Alpha ESS's “Privacy Policy”.

11. Select Language and Logout



Click the drop-down list in the red box to select Chinese, English, or German.

Click the button in the blue box to logout.