

User Manual for User Web Cloud

V1.2.0

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1 Login&Register

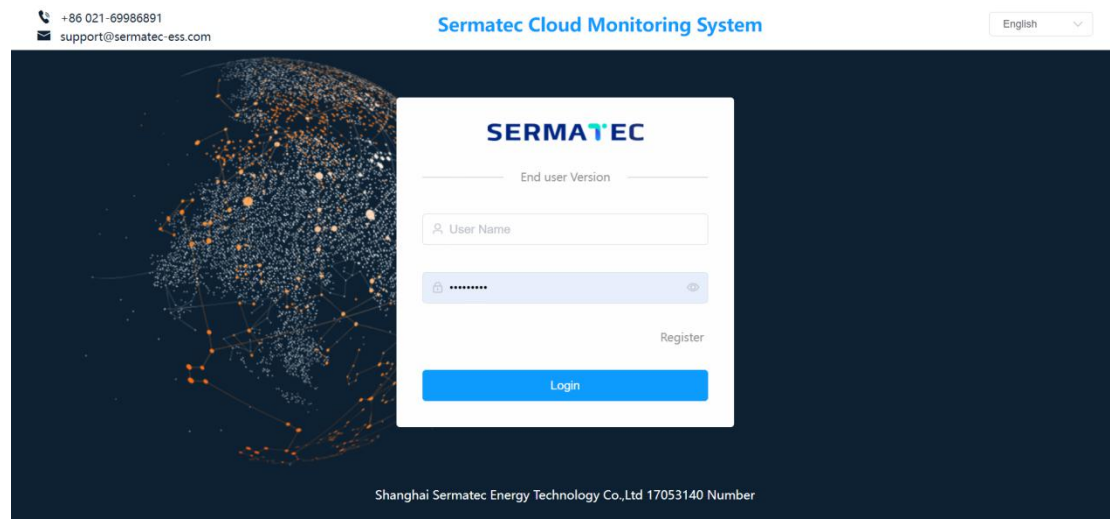
1.1 Login website

Asian server: <https://ess.sermatec-cloud.com/>
 European server: <https://eur.sermatec-cloud.com/>

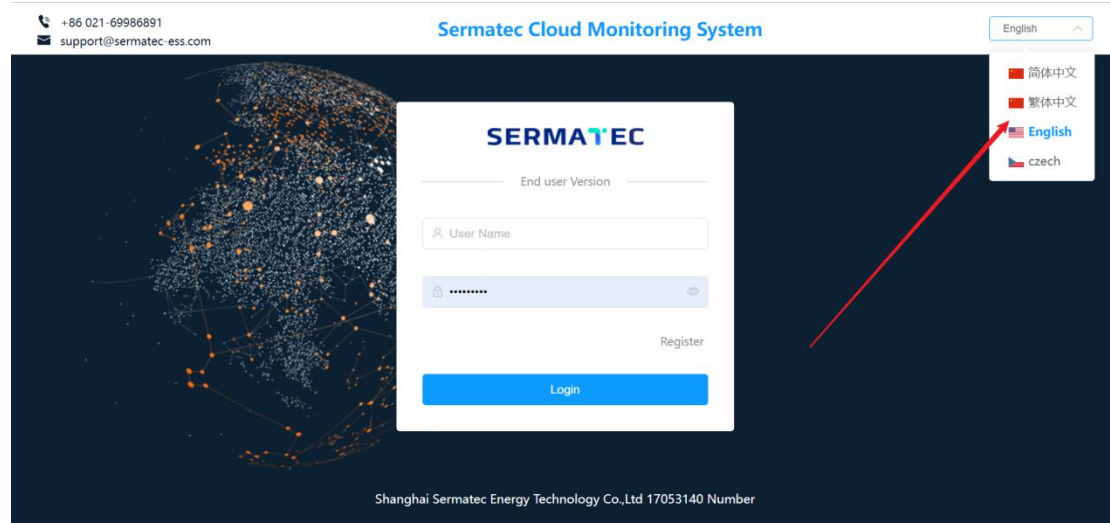
1.2 Login

(1) Input account name and password could login, there are user account and super user account two type which has different authorities.

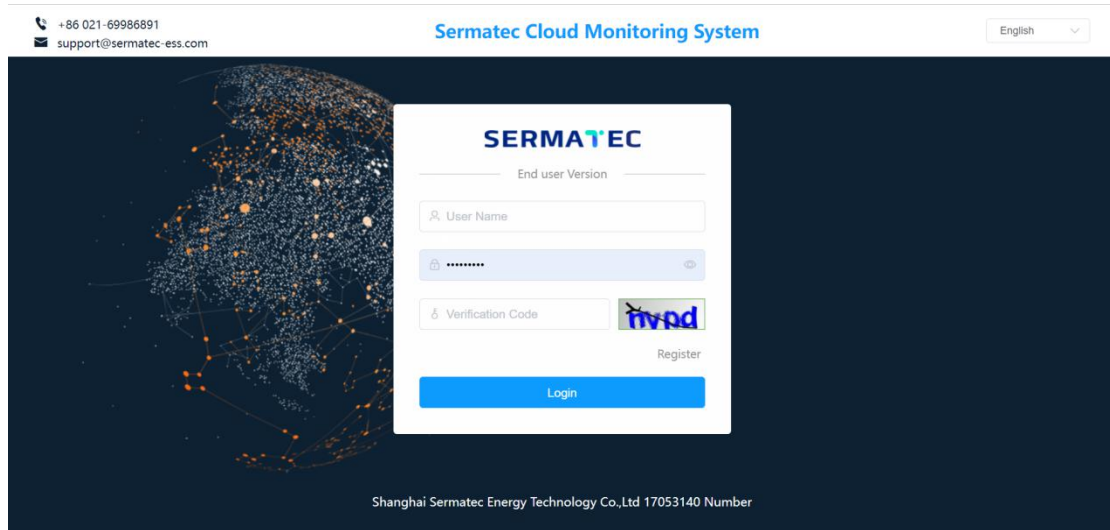
User account has right to check the plant and the device, while super user account not only checking but also could create plant and add device.



(2) Right top area of the login page is used to change language, right now three languages are supported: English, Chinese and Czech.



(3) Verify code is needed if the account or password was wrongly input for more than 3 times.



1.3 Register

Click 'Register', fill in necessary information, the super user account could be registered here. While Sermatec recommend that the user and super user accounts to be created by dealer account to ensure the dealer could monitor the inverters they sold.

2 Page Introduction

(1) Homepage, left area is energy statistic data, could check daily yield, total yield and others. Middle area is the energy consumption statistics, pie chart is with load, grid and PV. Right area is for the plant online status and alarms of current date.



(2) Left top area of homepage will show the account name, pull down could see all plants from this account.

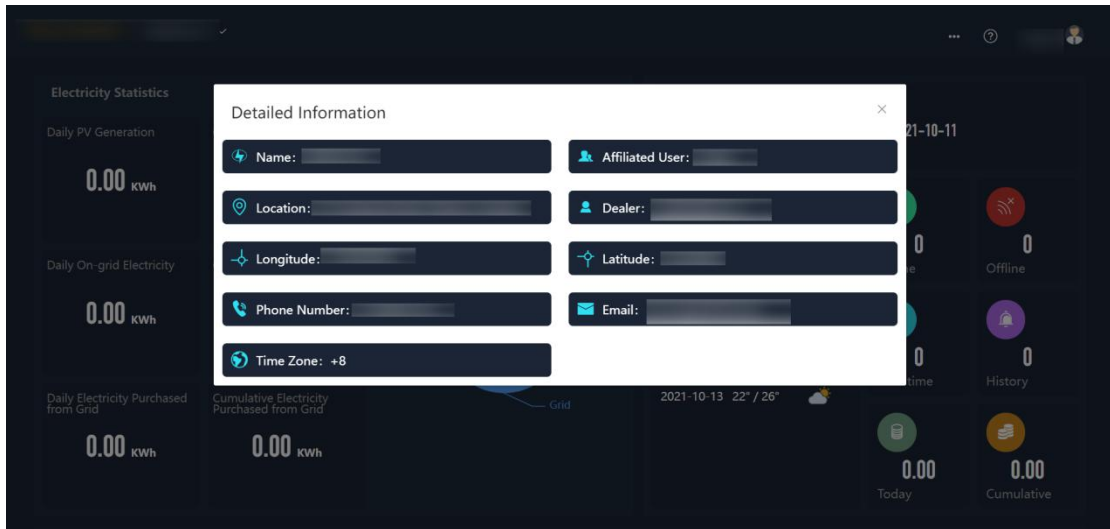


(3) Notification for user account.



(4) Plant details, will see plant name, location, users and so on.





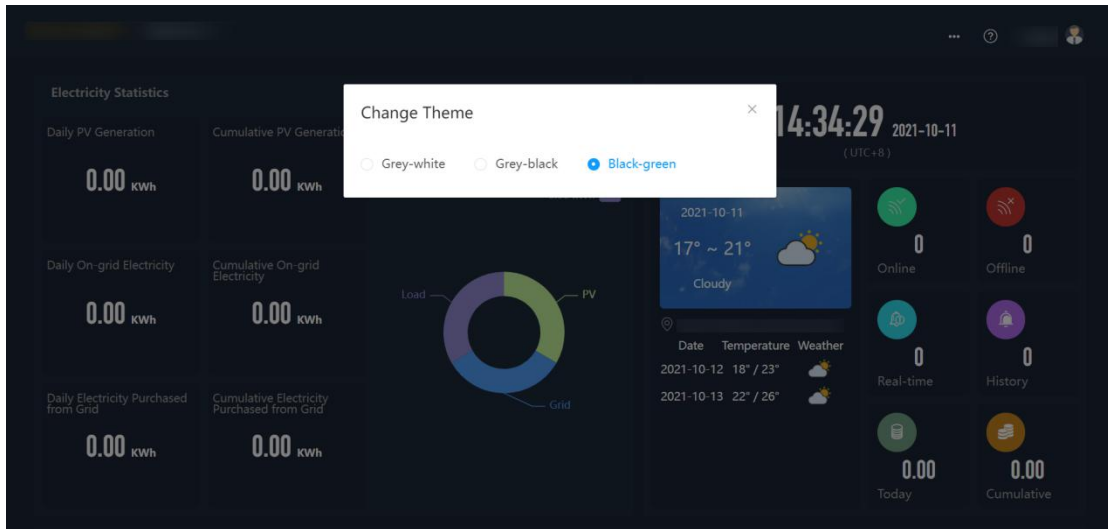
3 Personal center

Change theme, change password, submit a case, logout.

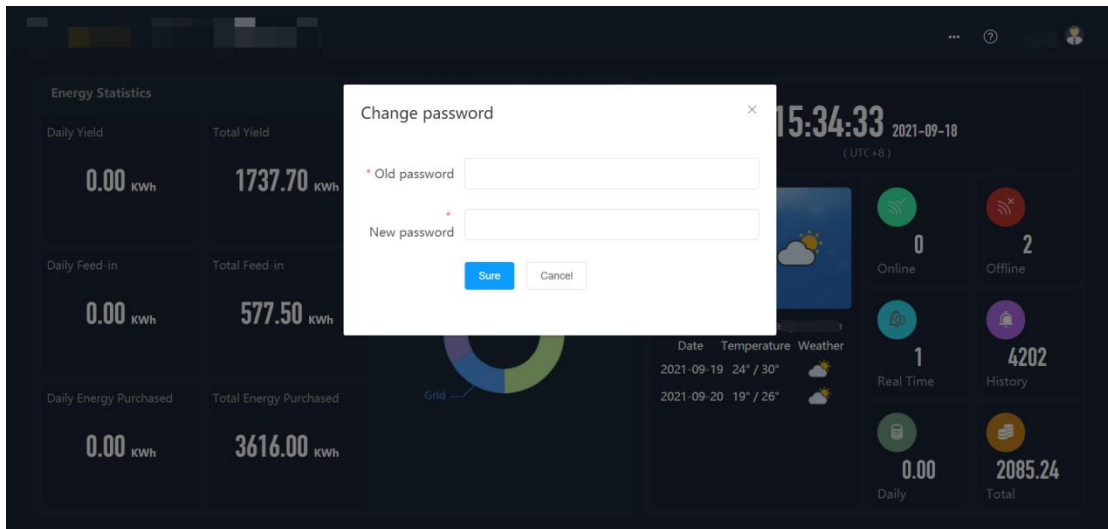


3.1 Change Theme

There are 3 options: Gray white, Gray black and Black green, for the background color of the web.



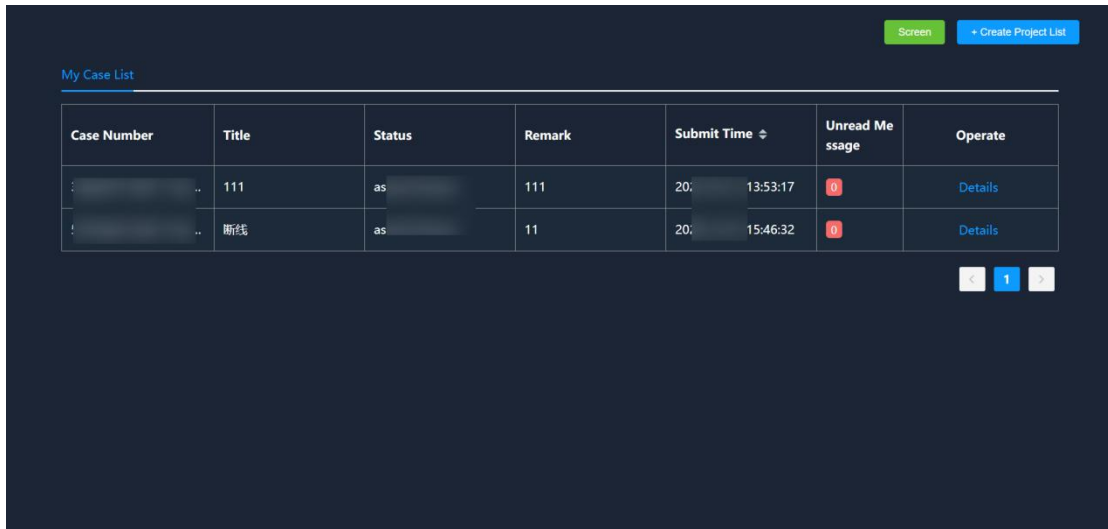
3.2 Change password



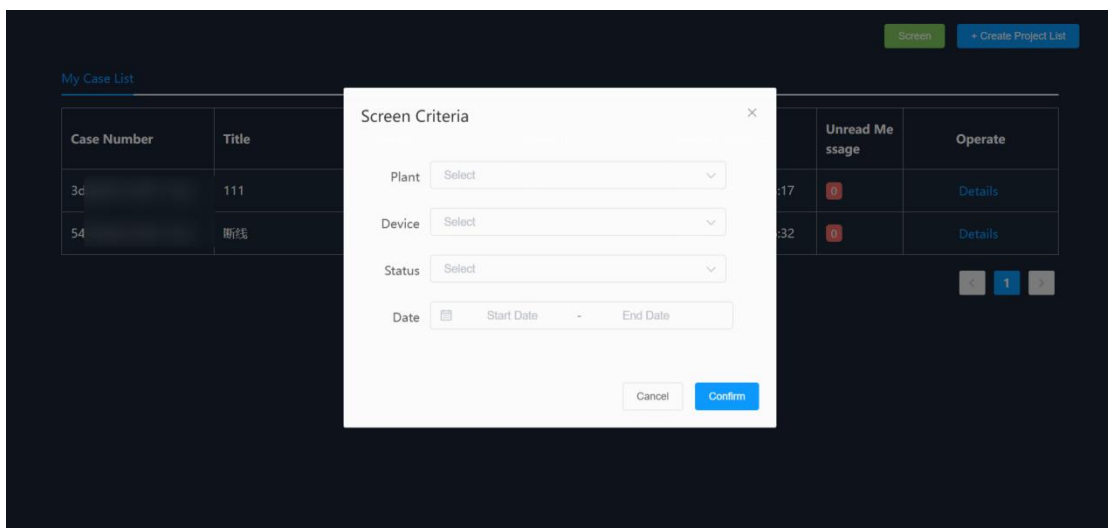
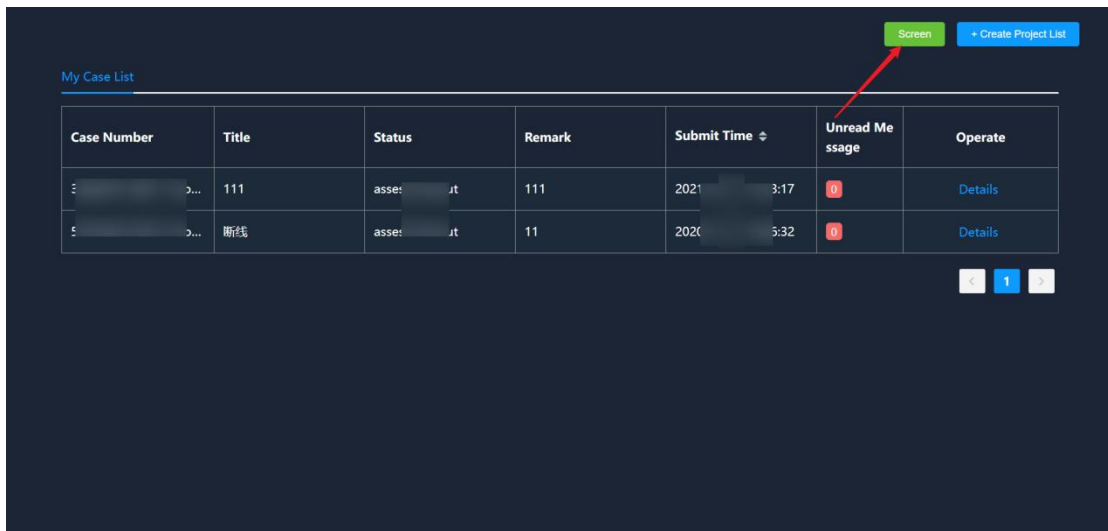
3.3 Submit a case

This function is for end user to submit the product problem, dealer will handle it with their dealer account on Cloud monitoring system.

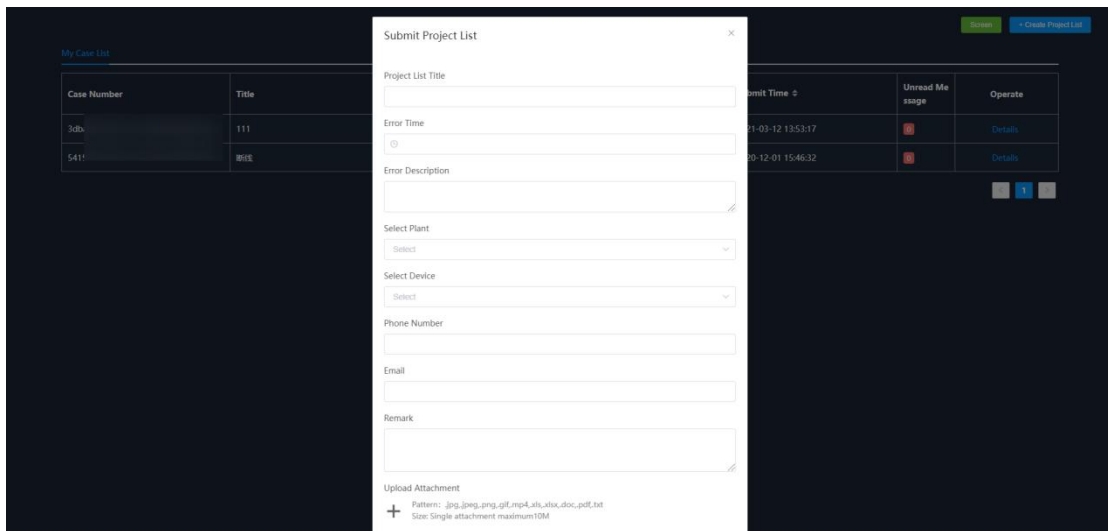
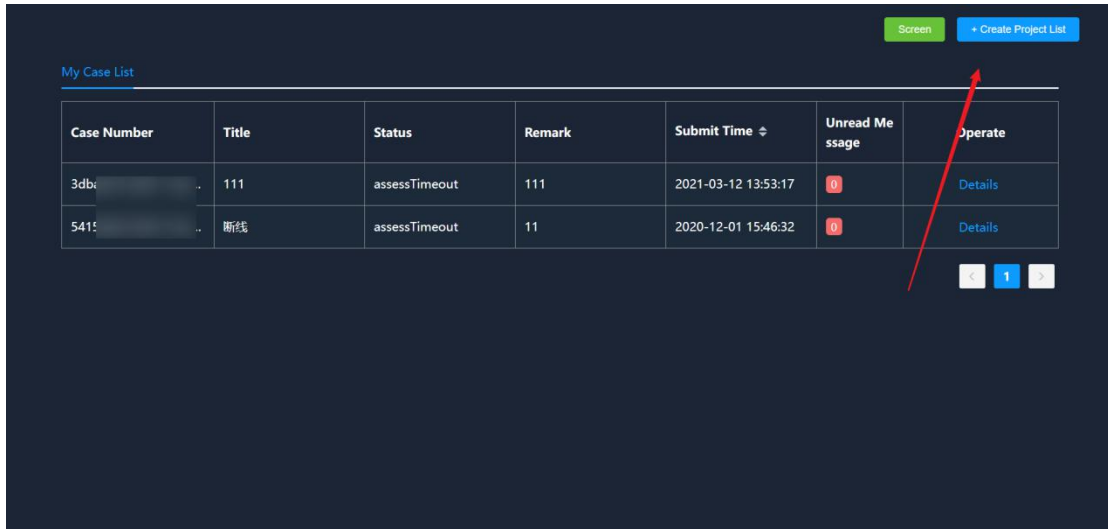
(1) My case list: Cases I submit



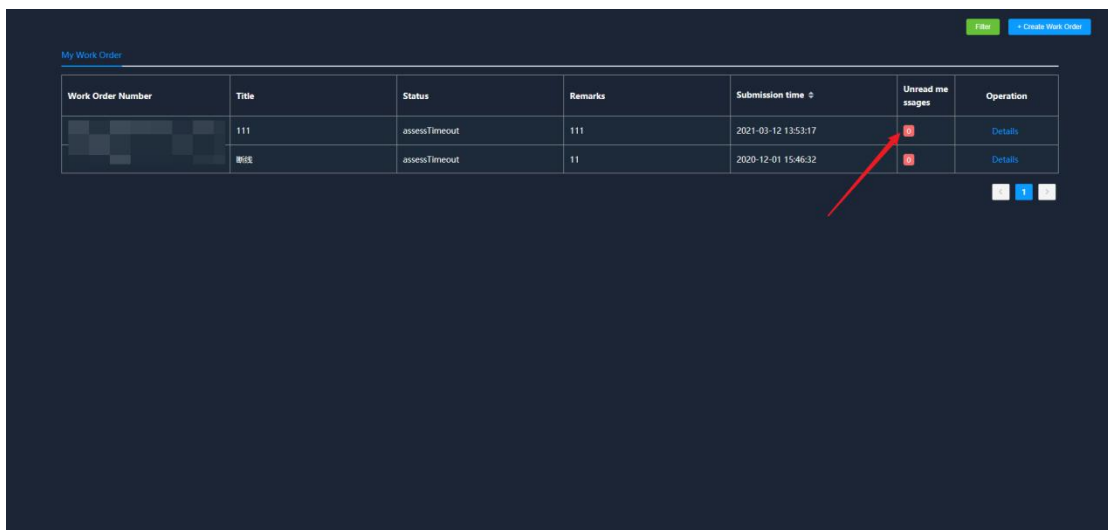
(2) Filter function, is used to filter the cases based on terms.



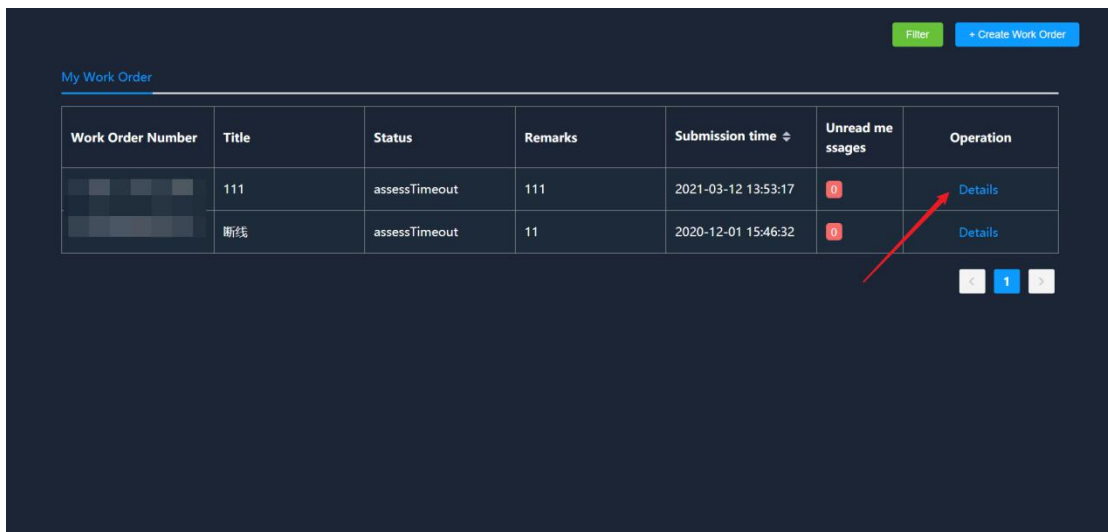
(3) Create a case, fill in the form about the case, could upload photos or MP4 format videos related to the case(single file max.size is 10M).



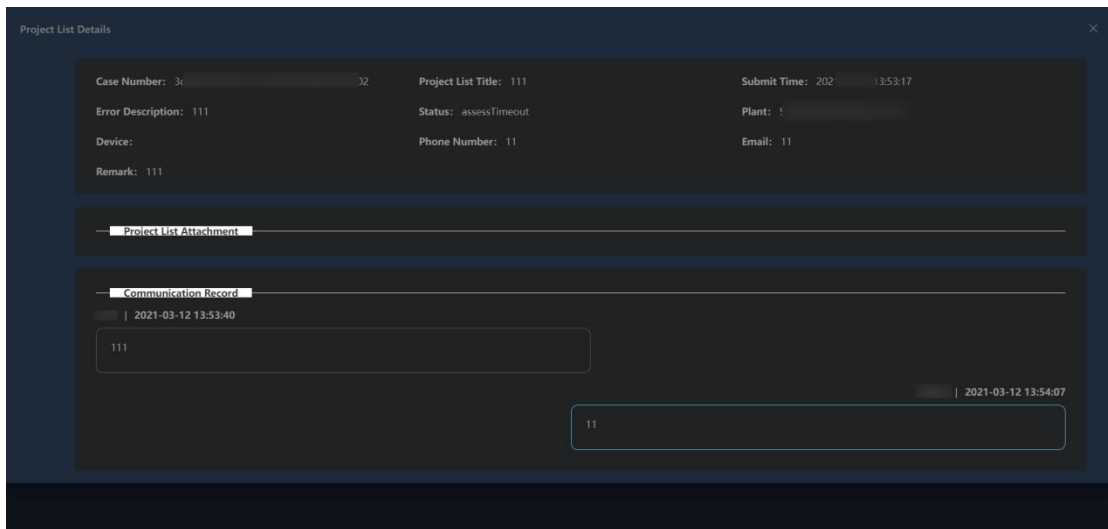
(4) Unread messages numbers could display.



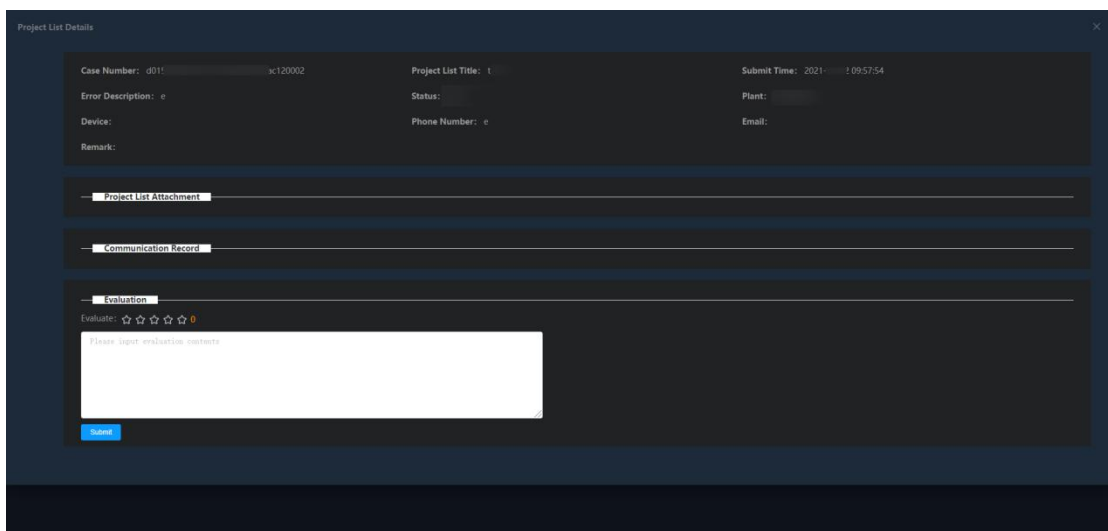
(5) Could check unread messages by 'Details'.



(6) Case details page, could see real-time communication messages with dealers' service engineers.



(7) Click 'Case solved', can leave a comment about the solution and score the dealer engineer.



4 Homepage



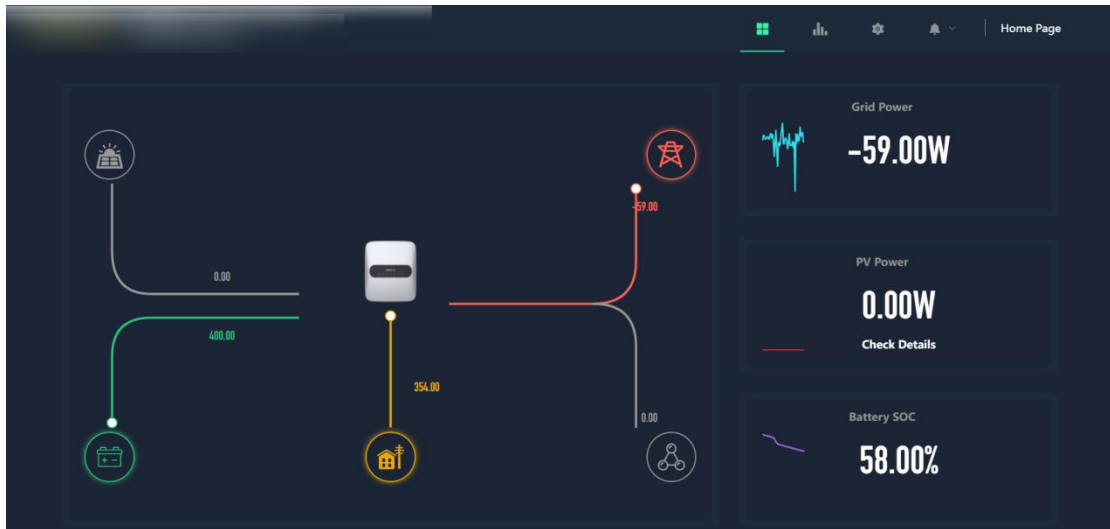
4.1 Device list

Device information could be checked here, click'...' to check device details.

SN	Model Type	Status	Alarm	Battery Type	DSP	PCU	Install Location	Details
	5K	--	-		V120A00D00	2.5.9		...
	5K	Offline	🔔 +1		V120A00D00	2.5.9		...

4.1.1 Device details

Right top there are 5 icons: Status, Reports, Restore to factory settings, Alarms, Homepage.



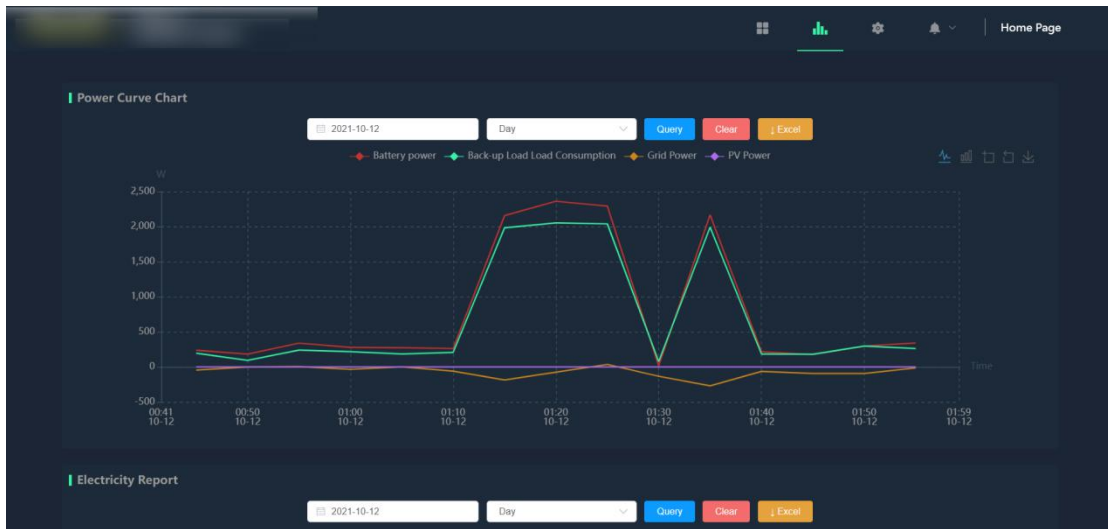
Following page is the device details data.

Battery Status		Inverter Status	
Battery Charging/Discharging Status	Discharging	Inverter temperature	37.00°C
Temperature	18.00°C	Startup/Shutdown Condition	Power On
Voltage	50.00V	Working Mode	Universal Mode
Current	9.20A	AC Side Working Status	On-grid
SOC	58.00%	DC Side Working Status	Running
SOH	99.00%	Connection Status	Connected
PV Status		Grid Parameters	
PV Working Status	Off	Grid Voltage R/U/A	237.10V
Cumulative Active PV Generation	6880.00kWh	Grid voltage S/V/B	0.00V
Today Active PV Generation	26.40kWh	Grid Voltage T/W/C	0.00V
PV1 DC Voltage	22.10V	Grid Current R/U/A	1.90A
PV2 DC Voltage	23.40V	Grid Current S/V/B	0.00A
PV1 DC Current	0.00A	Grid Current T/W/C	0.00A
PV2 DC Current	0.00A	Grid Frequency	50.02Hz
PV1 DC Power	0.00W	Total Grid Power	-33.00W
PV2 DC Power	0.00W	Total Grid Reactive Power	80.00Var

图 16

4.1.2 Reports

(1) Report page, it is line chart of some data.



(2) PV generation report, could zoom in or out with mouse.



(3) Battery SOC report, could zoom in or out with mouse.



4.1.3 Restore factory settings (default cannot use it here)

Restore factory settings, will change all settings back to factory setting, needs to be done under Sermatec's approval.

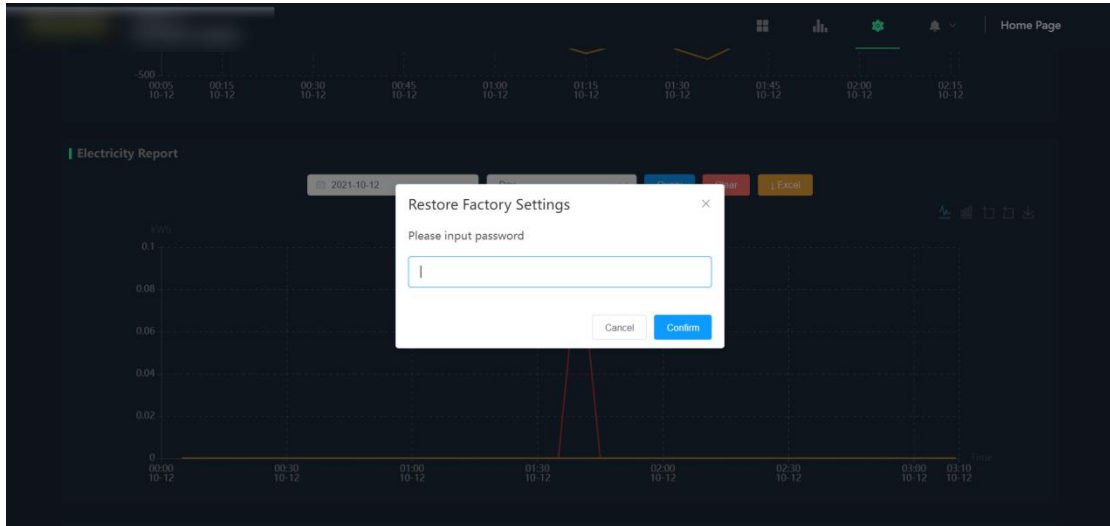
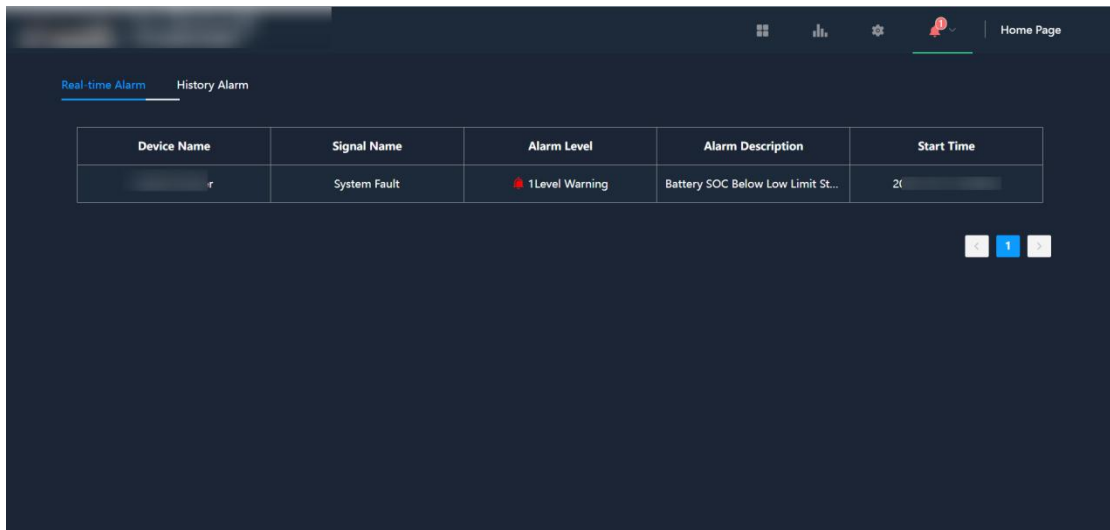


图 22

4.1.4 Alarms

(1) Alarms in progress.



(2) Alarms in history, select time period to check historical alarms, could export in Excel.

The screenshot shows a web interface for 'History Alarm'. At the top, there are navigation tabs for 'Real-time Alarm' and 'History Alarm'. Below the tabs, there are date selection fields for 'Start Date' (2021-10-05) and 'End Date' (2021-10-12), along with 'Query' and 'Excel' buttons. The main content is a table with the following data:

Device Name	Signal Name	Alarm Level	Alarm Description	Start Time	End Time
	System Fault	1Level Warning	Battery SOC Below Low Li...		:17:47
	System Fault	1Level Warning	Battery SOC Below Low Li...		:20:30
	System Fault	1Level Warning	Battery SOC Below Low Li...		:22:59
	Battery Warning	3Level Warning	Single Cell High Voltage ...		:30:05
	Battery Warning	3Level Warning	Module High Voltage Ala...		:30:05
	Battery Warning	3Level Warning	Single Cell High Voltage ...		:04:04
	Battery Warning	3Level Warning	Module High Voltage Ala...		:04:04
	Battery Warning	3Level Warning	Single Cell High Voltage ...		:18:00
	Battery Warning	3Level Warning	Module High Voltage Ala...		:18:00

5 Super User Account

Except above common user function, super user account got following extra functions.

5.1 Homepage

There are 'Create Plant', 'Edit Plant' and 'Delete Plant' together with 'Plant Details'.



(1) Create Plant, need to fill in necessary plant information.

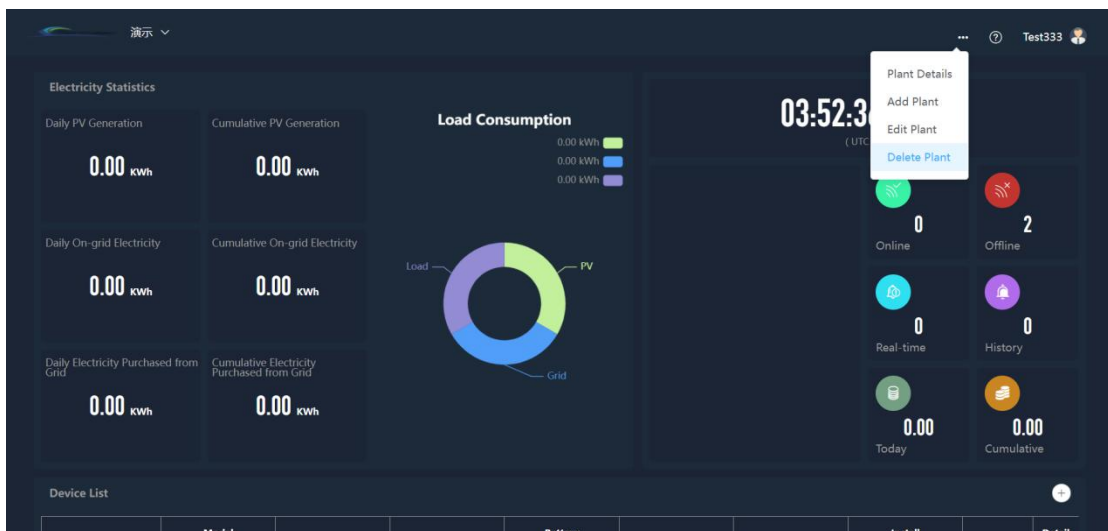
(2) Edit Plant, could edit Plant name, address and power etc.

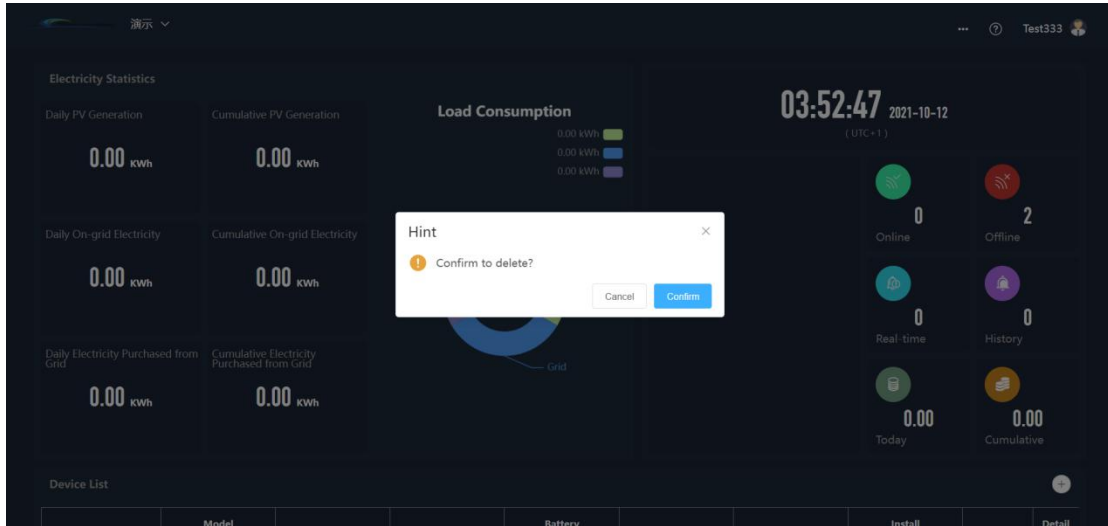


The 'Edit Plant' form includes the following fields and options:

- Plant Name: 演示
- Plant Power: 13
- Address: 1123
- Longitude: 1231
- Latitude: 1231
- Time Zone: +1
- Plant Status: Normal, Alarm, Engineering
- Plant Type: Home Roof, Small C&U project, Micro-Grid
- Grid Connection Type: 13

(3) Delete Plant, to delete all information about the plant.

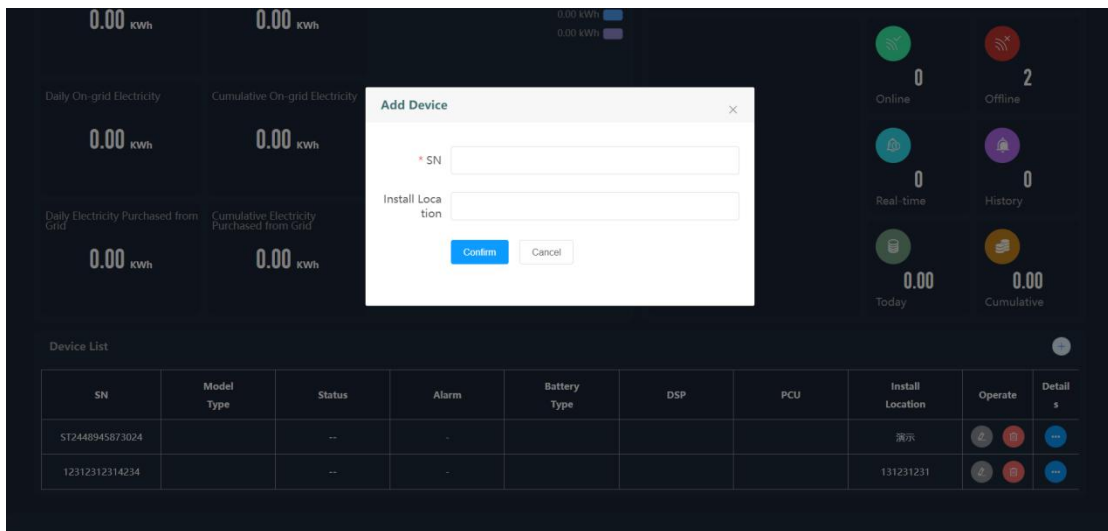




5.2 Device List

Super user account has right to add device, edit device, delete device.

(1) Add device, input inverter SN, location, confirm to submit.



(2) Edit device: Click edit device, could modify SN, location, click ✓ to confirm.

Device List

SN	Model Type	Status	Alarm	Battery Type	DSP	PCU	Install Location	Operate	Details
ST2448945873024		--	-				演示		
12312312314234		--	-				131231231		

Device List

SN	Model Type	Status	Alarm	Battery Type	DSP	PCU	Install Location	Operate	Details
ST2448945873024		--	-				演示		
12312312314234		--	-				131231231		

(3) Delete device.

The dashboard displays various energy metrics: Daily On-grid Electricity (0.00 kWh), Cumulative On-grid Electricity (0.00 kWh), Daily Electricity Purchased from Grid (0.00 kWh), and Cumulative Electricity Purchased from Grid (0.00 kWh). A donut chart shows Load and PV usage. On the right, there are status indicators for Online (0), Offline (2), Real-time (0), and History (0). A 'Hint' dialog box is open, asking 'Confirm to delete?' with 'Cancel' and 'Confirm' buttons.

Device List

SN	Model Type	Status	Alarm	Battery Type	DSP	PCU	Install Location	Operate	Details
ST2448945873024		--	-				演示		
12312312314234		--	-				131231231		