



End user manual V1.1.50

(WEB:<https://shine.felicitysolar.com/> APP:Fsolard)

Tips:

1. It is recommended to use Chrome v90.0 or above, Edge v90.0 or above browsers for web access, and the display resolution is 1920*1080, which has a better browsing effect.
2. Android phones are recommended to use Android 5.0 or above, with a resolution of 1080p or above, and the browsing effect is better.
3. Apple mobile phones recommend using IOS 11.0 or above, browsing effect is better.

Scan the QR code to download the app:



APP Download

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1. Introduction of functions



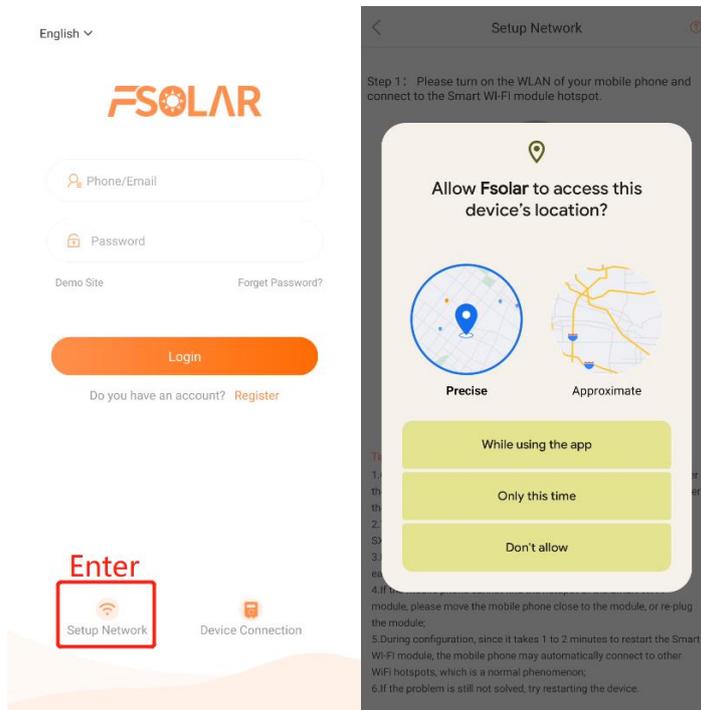
It is an intelligent cloud platform with the main purpose of photovoltaic data monitoring. Provide users with real-time monitoring, power station, equipment management and remote control, intelligent alarm and other functions. Allow users to achieve photovoltaic power plant information management.

2. Launch the app



[Launch Page] First launch of APP

3. APP Setup Network

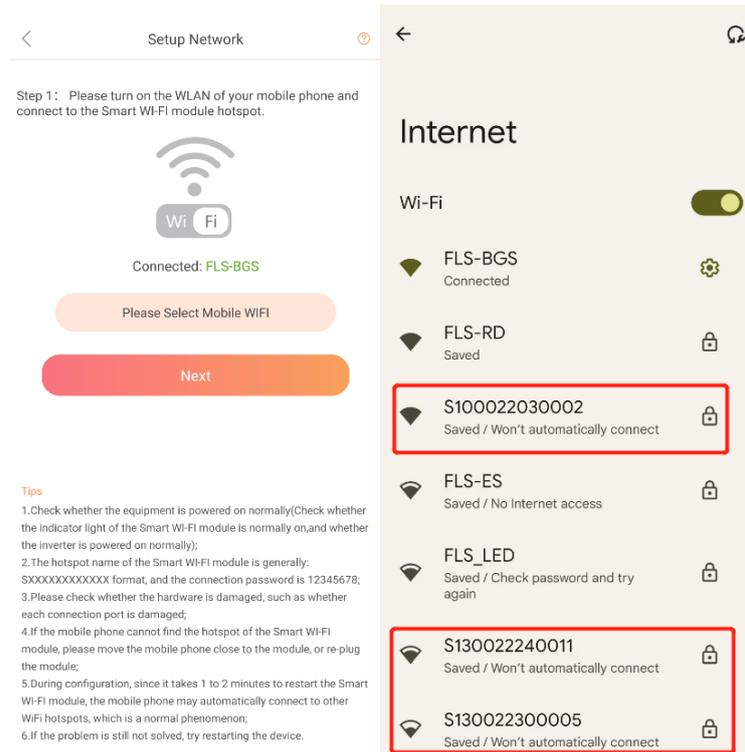


[WIFI Setup Network]

When the new equipment is purchased, it is necessary to connect the WIFI module to distribute the network in order to report the equipment data normally.

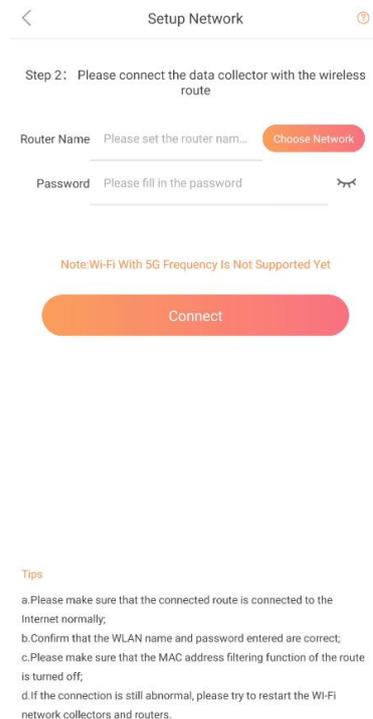
[Get Location]

The app needs to get the location of your phone matching the local time zone and send it to the inverter to synchronize the time zone.



[Step 1]

In the mobile phone settings page to connect the WIFI module hotspot (format: SXXX number, password:12345678), from the APP login page into the WIFI with the web page, wait for the WIFI key, click Next.



[Step 2]

Fill in the home or need to connect the router WIFI name and password, click Connect, wait for WIFIModule restart.



[Attention]

After waiting for the restart, observe the three status lights of the WIFI module. The entire network was successful.

4. APP Device Connection

English ▾

FSOLAR

Phone/Email

Password

Demo Site Forget Password?

Login

Do you have an account? Register

Enter

Setup Network Device Connection

Device Connection

Please turn on the WLAN of your mobile phone and connect to the Smart Wi-Fi module hotspot.

S100022030002 ✓

RD-LAB2

S130022300005

FLS-RD

FLS-BGS

FLS2022

Please Select Mobile WIFI

Device Connection

Step 1: Please turn on the WLAN of your mobile phone and connect to the Smart Wi-Fi module hotspot.

Wi Fi

Linked: FLS-BGS

Please Select Mobile WIFI

Next

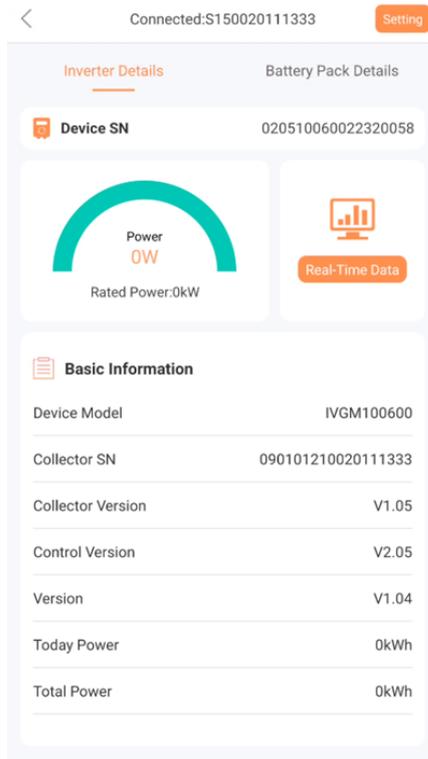
Tips

1. Check whether the equipment is powered on normally (Check whether the indicator light of the Smart Wi-Fi module is normally on, and whether the inverter is powered on normally);

2. The hotspot name of the Smart Wi-Fi module is generally: SXXXXXXXXXX format, and the connection password is: 12345678.

[Device Connection]

The same as the distribution network needs to connect to the same format of WIFI, and then return to the APP to enter the device directly connected page.



[Inverter Details Page]

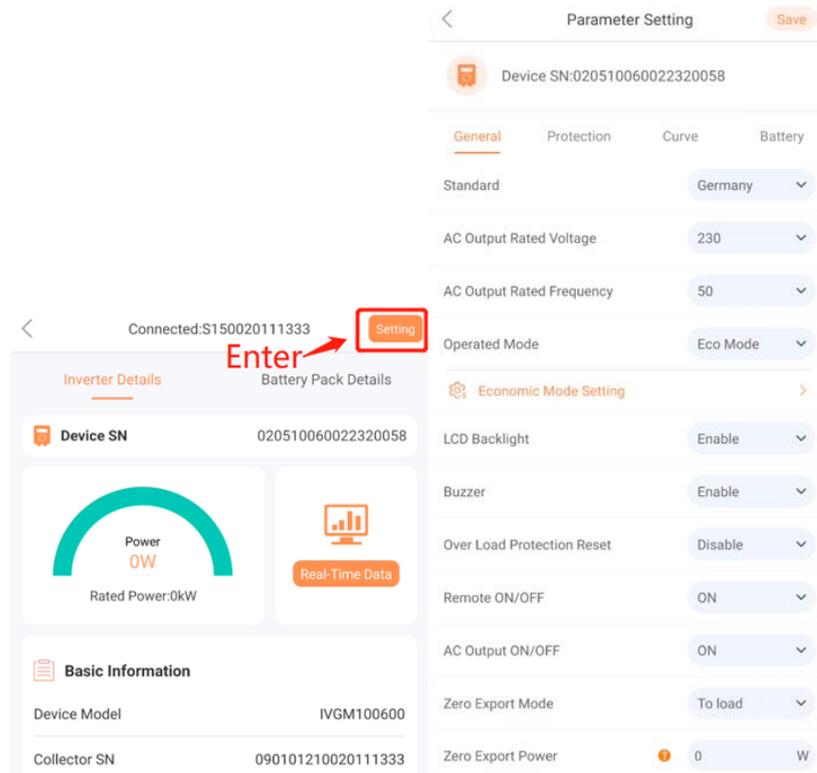
Display basic equipment information, current power, real-time data, equipment model, etc.

[Arch Scale Diagram]

The arch is the current power / rated power ratio

[Parameter Settings]

You can adjust the advanced settings of the inverter, adjust the regulations, working mode, battery parameters, etc.



[Notes]

Non-professionals do not operate.

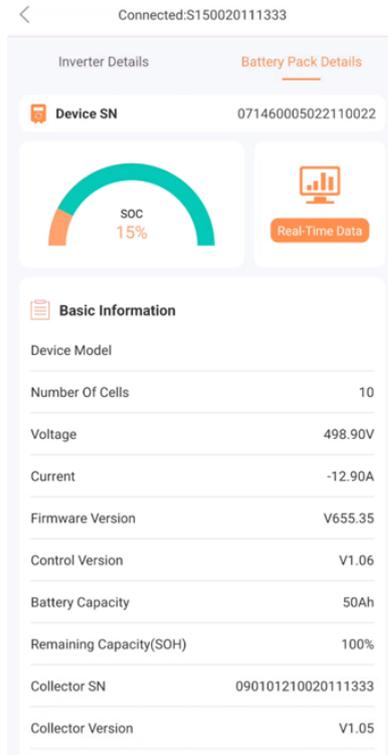
[Real-time Data]

Inverter real-time data, display photovoltaic data, mains data, battery data, load consumption data, etc.



[Battery Pack Details]

Note: Need to use our battery pack to switch, you can check the battery pack remaining power, equipment model and other basic information.

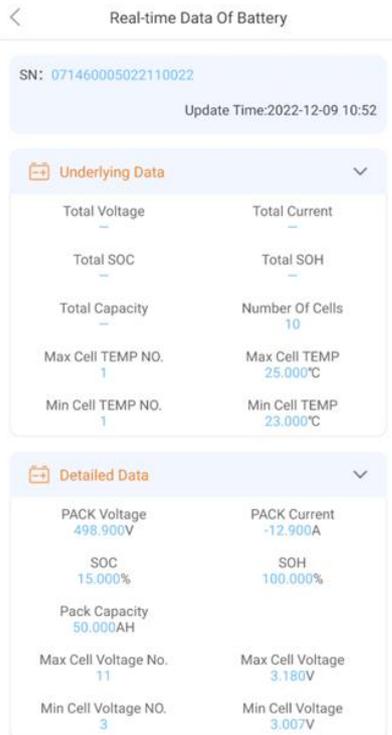


[Arch Scale Diagram]

The arch is the remaining charge / 100% scale diagram

[Real-time Data]

Battery pack real-time data, basic data, detailed data, including battery current voltage temperature and other information.



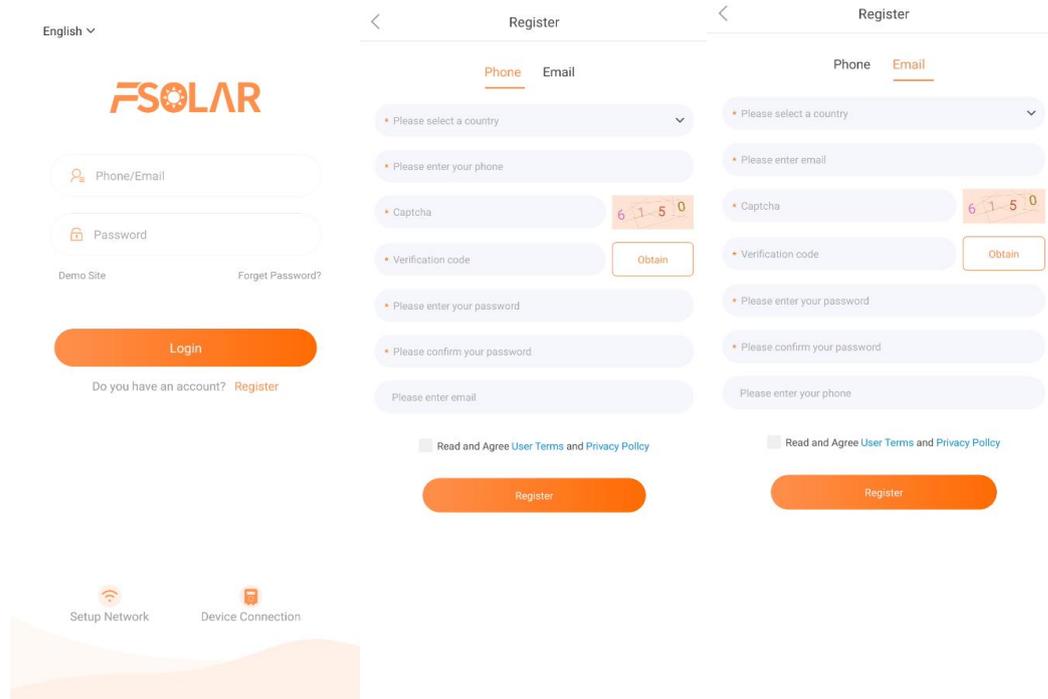
5. APP Registration and Login

[Login]

Use the mobile phone number, email and password registered in the APP or WEB side to log in.

[Registration]

Provide mobile phone registration, email registration, fill in the necessary information, check the privacy agreement, click on the registration.



6. APP Home

[Overview]

Display all power stations, equipment statistics.



[Total Capacity]

Statistical installed capacity of all equipment, unit kWp.

[PV Power Today]

Statistics of all power stations and equipment today, total photovoltaic output power, unit kWh.

[PV Power Month]

Statistics of the total photovoltaic output power of all power stations and equipment in the month, unit kWh.

[Total]

Total photovoltaic output electricity.

[Load Today]

Statistics of all power stations and equipment total load consumption today, unit kWh.

[Load Month] Statistics of the total load consumption of all power stations and equipment in the month, unit kWh.

[Total]

Total Gross Load Consumption Electricity.

[AC Input Today]

Statistics of all power stations and equipment power grid power consumption .today, unit kWh.

[AC Input Month]

Statistics of the total power station and equipment power grid power consumption in the month, unit kWh.

[Total]

Total Grid Power Consumption.

[Battery SOC]

Current Full Battery Remaining Charge.

[Remaining Available Time]

Estimated battery life remaining available time.

7. APP Plant

7.1 List of Plants



[List of Plants]

Provide keyword search, plant name/ plant owner/SN.

[Power] Current photovoltaic output power.

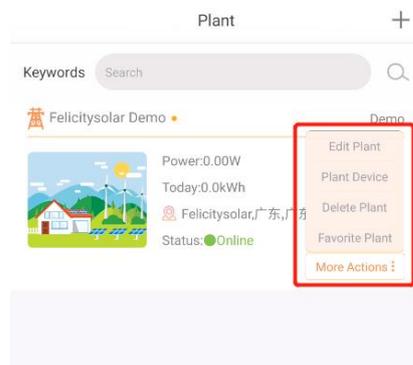
[Today] Photovoltaic power generation on the day.

[Location] The location of the power station, fill in when the new power station is built.

[Status] Online: Normal online, Alarm online; Fault;Offline.

[More Actions]

Offers: Edit Power Station, Power Station Equipment (Equipment Binding and Unbinding), Delete Power Station, Collection Power Station Operation.



[Add Plant]

Fill in the power station name, equipment SN, installation date, Power plant pictures, address, time zone, electricity price.

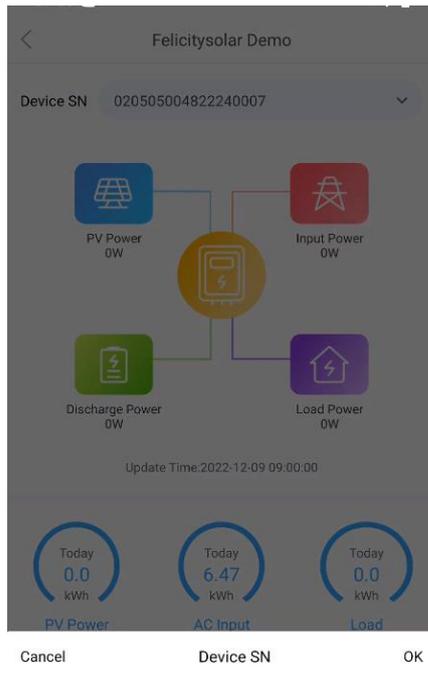
The screenshot shows a mobile application interface for creating a new plant. The title is "Create A Plant". The form consists of several input fields and buttons:

- Plant Name:** A text input field with the placeholder "Please enter the plant name".
- Device SN:** A text input field with the placeholder "Please select or scan to add" and a QR code icon.
- Installation Date:** A date picker showing "2022-12-09".
- Plant Pictures:** A section with a red plus icon and the text "Upload Plant Pictures".
- Plant Address:** A section with a red "Automatic Positioning" button.
- Location:** Three dropdown menus for "Nation", "State", and "County/City".
- Address:** A text input field with the placeholder "Please enter detailed address".
- Time Zone:** A dropdown menu showing "UTC+08:00".
- Local Electricity:** A section with a "Local Electricity" input field and a "Currency" dropdown menu.
- Submit:** A large orange button at the bottom.

7.2 Plant Details

[Device SN]

Select the device SN and display the information about the selected SN.



020505004822240007

020505004822240009

020510060022320058

[Energy Flow Diagram]

PV power, feed / take power, charge power, load power
The state of flow.

[Update Time]

Latest equipment report data time.



[PV Power Today]

Photovoltaic output electricity today, unit: kWh.

[AC Input/Feed Today]

Today's power grid intake / feed network electricity, unit: kWh.

[Load Today]

Today's load consumes electricity, unit: kWh.



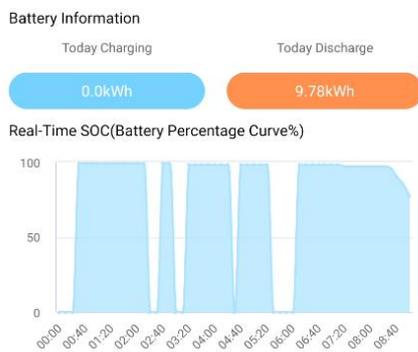
[Battery Information]

Including the charging power of the day, the discharge power of the day, unit:

kWh;

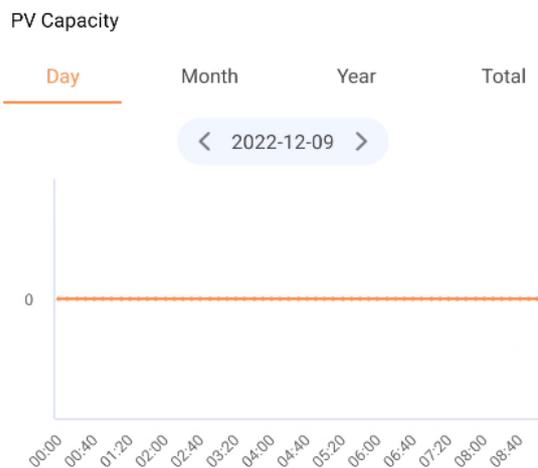
[Real-time SOC Chart]

View today's SOC line, click to see a point in time data.

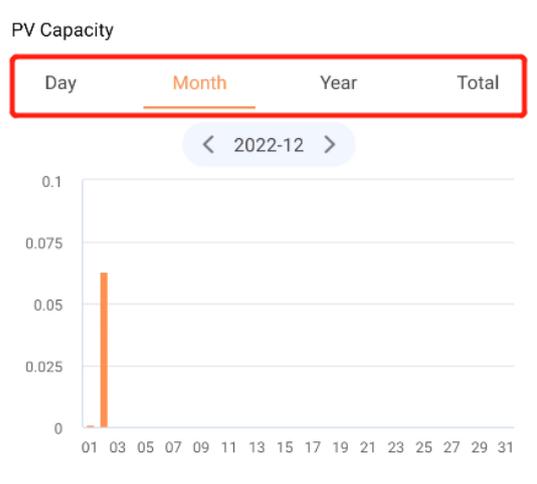


[Photovoltaic Capacity Chart]

Provide daily, monthly, annual and total data display of photovoltaic capacity. Click to see some detailed data.



[Day/Month/Year/Total] Click to view statistics on different dimensions.



[Time Control]

You can select different year, month and day.

The figure shows a screenshot of the PV Capacity chart with a dialog box overlaid. The chart is dimmed, and the dialog box is titled "Please select a time". It has "Cancel" on the left and "OK" on the right. The dialog contains two columns of options:

Year	Month
2018Year	08Month
2019Year	09Month
2020Year	10Month
2021Year	11Month
2022Year	12Month

[Weather]

Shows the weather conditions at the location of the power station.

The figure displays four weather-related metrics in a row:

- Partly Cloudy**: 9°C, accompanied by a sun and cloud icon.
- Sunrise-Sunset**: 06:39-16:28, accompanied by a sun icon.
- Humidity**: 56%RH, accompanied by a water droplet icon.
- Wind Velocity**: 37%, accompanied by a cloud icon.

[Installation Date]

When a new plant is built.

[Plant Address]

Fill in when building a new power station.

Installation Date:2022-10-11 15:25:40

Plant Address:Felicitysolar,Guangdong,Guangdong,China

8. APP Device

8.1 List of Devices

Device **Add Device**

ΣDevices3

● Online
● Fault
● Offline

Device Online Rate: 3 100%

SN: 020510060022320058 •
Plant: Felicitysolar Demo
Status: ● Online [More Actions](#)

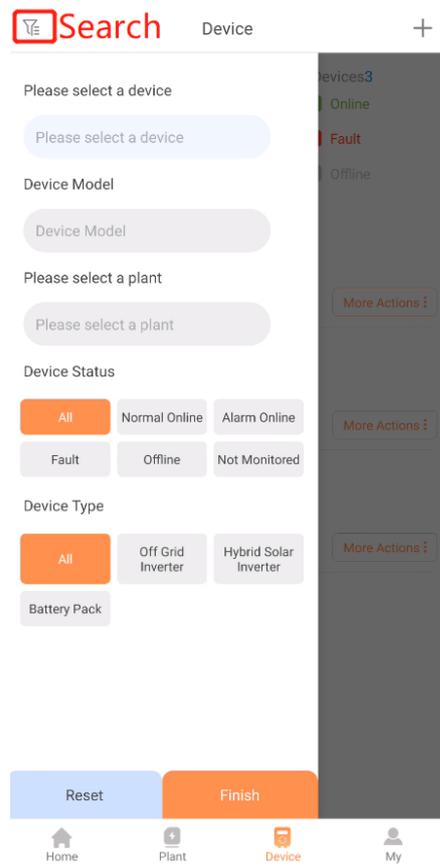
SN: 020505004822240009 •
Plant: Felicitysolar Demo
Status: ● Online [More Actions](#)

SN: 020505004822240007 •
Plant: Felicitysolar Demo
Status: ● Online [More Actions](#)

Home Plant Device My

[Devices List]

Provides advanced filter search, device SN/device model/device status/device type, etc.



[Device Online Rate]

The current equipment online rate, not monitored does not count.

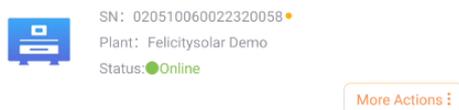


[ΣDevice]

Total number of device.

[Device Status]

Online: normal online, alarm online; Fault, Offline.



[SN]Device SN

[Plant]

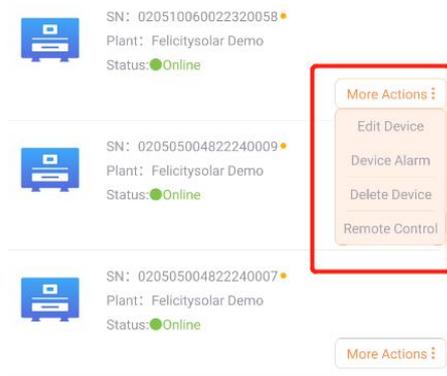
The name of the power station where the equipment is bound.

[Status]

Online: Normal online, Alarm online; Fault;Offline.

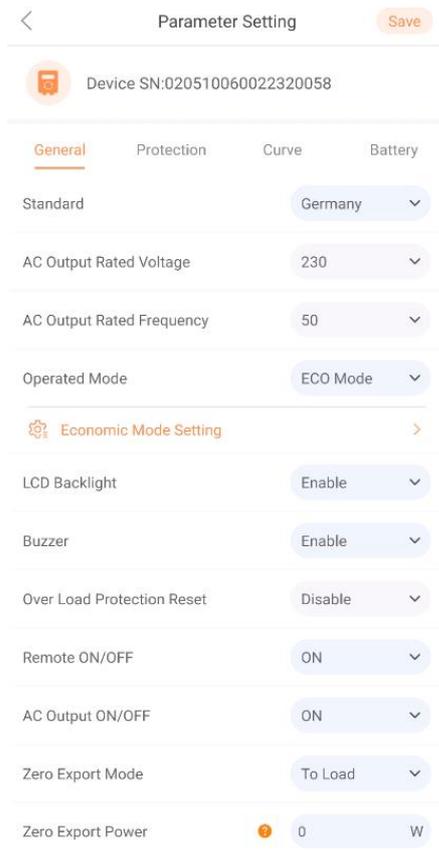
[More Actions]

Provides: edit the device, enter the alarm list, and delete the device action.



[Remote Control]

Go to the Remote Control Device page. Note: Do not manipulate by non-professionals.



[Add Device]

Fill in equipment SN, equipment check code: 0000, device alias. Provide a barcode input device SN on the scanning device.

< Add Device

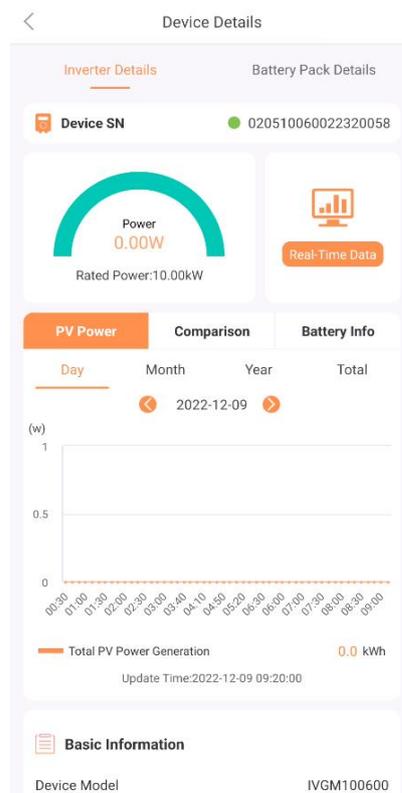
Device SN *

Device Checksum *

Device Alias

Submit

8.2 High Frequency Inverter Details



[Inverter Device details]

Display basic information of equipment SN, current power, rated power, real-time data, power generation chart, equipment model and so on.

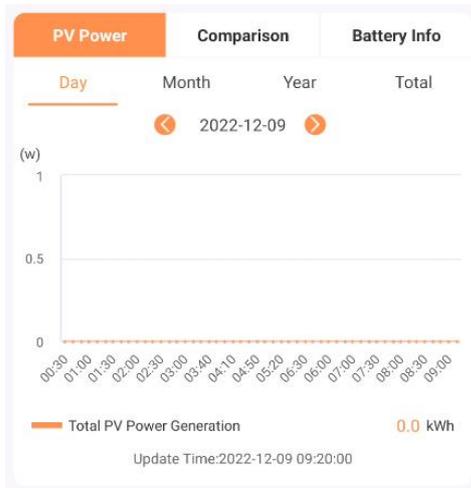
[Rated power ratio diagram]

Arch for Current Power / Rated



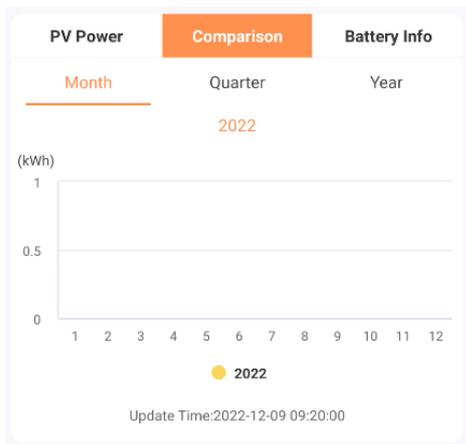
[Power Generation Chart]

You can click on the total switch of different dimensions of statistics, you can click on the date to switch to different dates.



[Energy Comparison Chart]

You can click on the rose year to switch the comparison data in different dimensions, and you can click on the year to select the year you need to compare.



[Battery Infographic]

You can click on the total switch of different dimensions of statistics, you can click on the date to switch to different dates.



[Basic Information]

Show basic equipment information, including equipment model, owner, etc.

Basic Information	
Device Model	IVGM100600
Device Owner	Demo
Plant	Felicitysolar Demo
Collector SN	090101210020111333
Collector Version	v1.05
Control Version	V205
Version	V104
Today Alarm	0
Today Power	0.000kWh
Total Power	0.0kWh

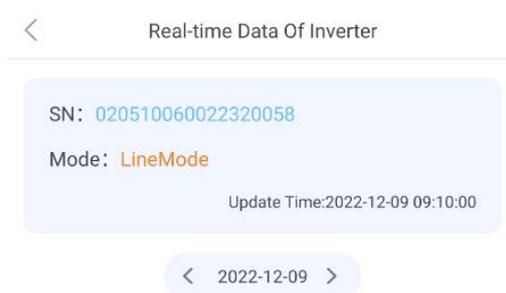
[High frequency inverter Real-time data]

Go to the Live Data page to view detailed data and show the condition of the equipment according to the time node.



[Basic Information]

SN, Working Mode, Date of Update, date selection box



[Photovoltaic Data]

Voltage, current, power, etc.

PV Data			
	PV1	PV2	PV3
Input Voltage(V)	0.00	0.00	0.00
Input Current(A)	0.00	0.00	0.00
Input Power(W)	0	0	0
	Year	Month	Day
PV Generated Energy(kWh)	0.000	0.000	0.000

[Battery Data]

Battery power, current voltage, capacity percentage.

Battery Data				
Battery Power(W)	-			
Battery Current(A)	-17.70			
Battery Voltage(V)	522.20			
SOH(%)	-			
	Total	Year	Month	Day
Battery Charge(kWh)	-	567.850	311.185	0.000
Battery Discharge(kWh)	-	611.411	375.145	9.642

[Grid Data]

Voltage and current, power consumption, feed.

Grid Data			
	AC Input	L2	L3
Voltage(V)	233.40	232.10	234.10
Current(A)	11.30	11.40	11.60
Frequency(Hz)	49.99	49.99	49.99
	Year	Month	Day
AC Generated Energy(kWh)	580.266	317.641	0.000
AC Input Energy(kWh)	471.303	268.717	6.288
Total AC Input Power(W)	-7885		

[AC Output]

Voltage, current, power, load power consumption, etc.

AC Output			
	AC Output	L2	L3
Voltage(V)	233.00	232.10	234.10
Current(A)	0.30	0.20	0.10
Frequency(Hz)	49.98	49.98	49.98
Active Power(W)	0	0	0
	Year	Month	Day
Load Power Consumption(kWh)	0.000	0.000	0.000
Load(%)	2.00		
Total AC Output Active Power(W)			0
Total AC Output Apparent Power(VA)			138

[Pagination]

Switch time left and right, click to select time. The following figures represent the total number of pages.



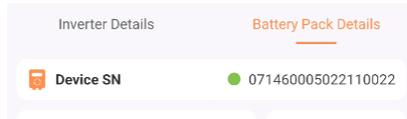
8.3 Battery Pack Details



Note:When the coordinative composition of equipments is used,onlyShowing Battery Pack Details,

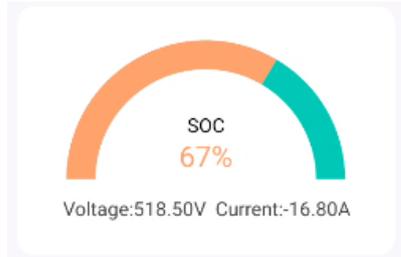
[Select SN]

One of a plurality of battery packs can be screened by selecting the device SN.



[Electricity Ratio Chart]

Arch diagram: remaining electricity / 100%, below the current voltage, current.



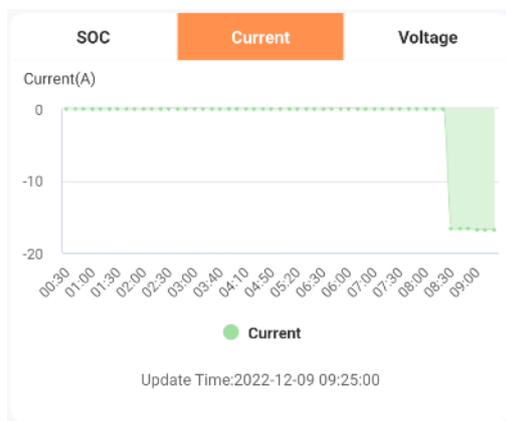
[Battery SOC Chart]

Click to see the detailed data at a certain point, below for the update time.



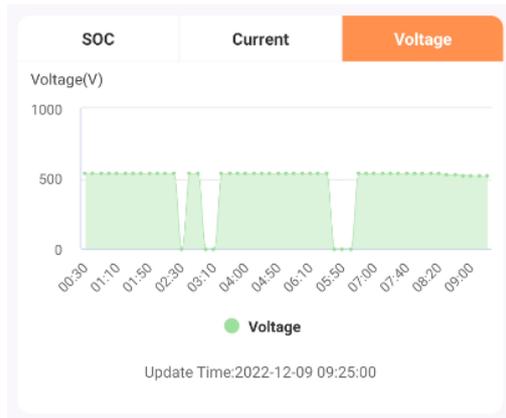
[Battery Current Chart]

Click to see the detailed data at a certain point, below for the update time.



[Battery Voltage Chart]

Click to see the detailed data at a certain point, below for the update time.



[Basic Information]

Display equipment model, SN, and other information.

Basic Information	
Device Model	
Voltage	518.50V
Current	-16.80A
Battery Capacity	50.00Ah
Remaining Capacity(SOH)	100%
Collector SN	090101210020111333
Collector Version	v1.05
Today Alarm	0

[Battery Pack Data]

Display data such as total battery pack voltage and current.

Battery Pack Data	
Total Voltage	521.70V
Total Current	-17.70A
Total Power	-9234.00W
Total SOC	68%

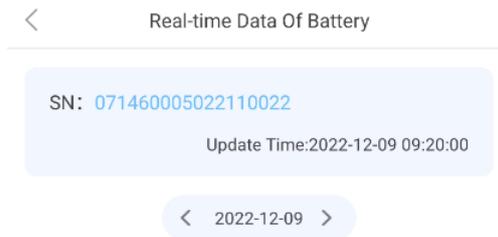
[Battery Pack Real-time Data]

Go to the Live Data page to view detailed data and show the condition of the equipment according to the time node.



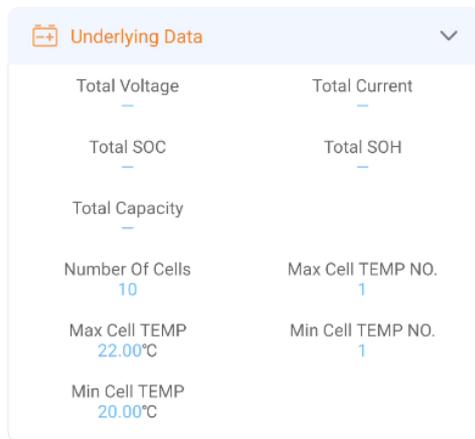
[Basic Information]

SN, Update Date, Date Selection Box



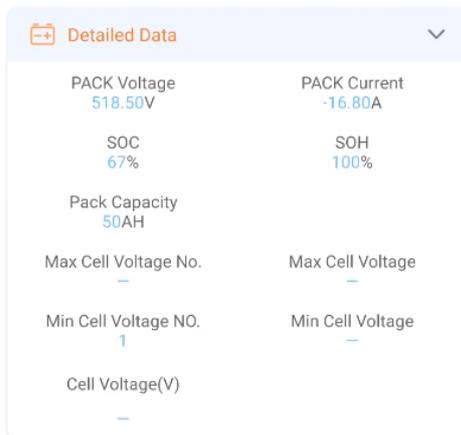
[Basic data]

Display voltage, current, quantity, temperature and other data.



[Detailed Data]

Detailed data of single battery pack, voltage current, temperature, capacity, etc.

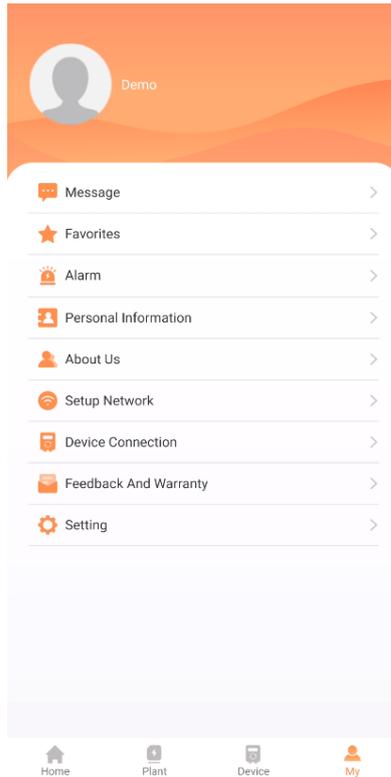


[Pagination]

Switch time left and right, click to select time. The following figures represent the total number of pages.



9. APP My



[Message]

Message reminder function, display the history message content.



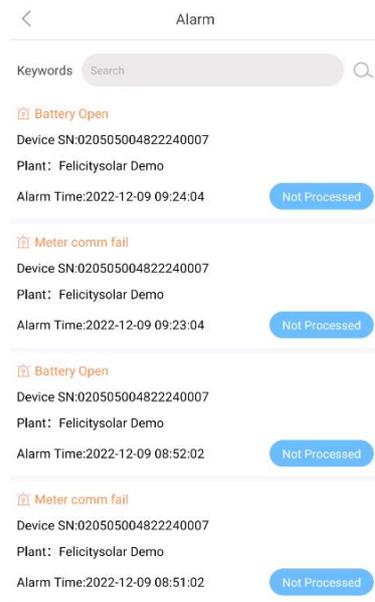
[Favorites]

List of favorites plants, You can cancel the collection.



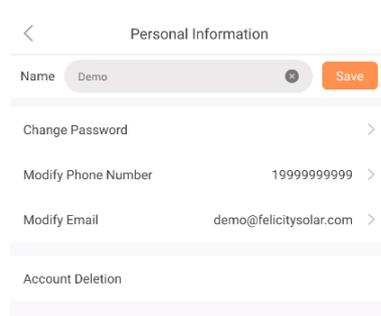
[Alarm]

Display device alarm information.



[Personal Information]

Provide modify personal information, modify mobile phone number, email function.



[About Us]

Show your content about us.



Copyright©2015 - 2022 Felicity Solar Technology Co., Ltd.
Felicitysolar-1.0.0

[WIFI Distribution]

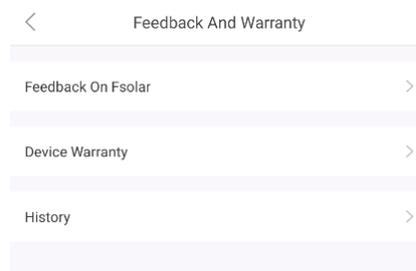
Provision of WIFI, please refer to above.

[Equipment Direct Connection]

Direct connection of equipment is provided, please refer to above.

[Question Feedback]

Provide system advice, equipment warranty, history and other functions.



[Feedback – System Suggestions]

< Feedback On Fsolar

Demo demo@felicitysolar.c

1999999999

Problem Description

Please Describe The Relevant Problems You Have Encountered Or Any Suggestions You Would Like To Make

0/200

Upload Photos Or Videos

Up To 3 Pictures Or Videos Can Be Uploaded

Submit

[Problem Feedback – Device Warranty]

< Device Warranty

Faulty Device

Please select a device

Problem Description

Please Describe The Relevant Problems You Have Encountered Or Any Suggestions You Would Like To Make

0/200

Upload Photos Or Videos

Up To 3 Pictures Or Videos Can Be Uploaded

Device Address

Plant Point Current Position Manual input

Nation State

Address Please enter detailed address

Submit

[Feedback – History]

< History

Feedback On Fsolar Device Warranty

Feedback On Fsolar

2022.12.07 17:23:09

[Settings]

Provides functions such as clearing cache, checking for updates, selecting

language, logging out, etc.

