FSOLAR

End user manual V1.1.50

(WEB:https://shine.felicitysolar.com/ APP:Fsolar)

Tips:

- 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:



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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.

Setup Network	
ase connect the data collector with route	h the wireless
Please set the router nam Cho	bose Network
Please fill in the password	*
II-FI With 5G Frequency Is Not Suppo	rted Yet
Connect	
	Please set the router nam Ch Please set the router nam Ch Please fill in the password FFI With 5G Frequency is Not Suppo Connect

Tips

a.Please make sure that the connected route is connected to the Internet normally: b.Confirm that the WLAN name and password entered are correct; c.Please make sure that the MAC address filtering function of the route is turned off; d.If the connection is still abnormal, please try to restart the WI-Fi network collectors and routers.

[Step 2]

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



[Attention]

English \sim

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

4. APP Device Connection

FSOLAR		
	< Device Connection	_
A Phone/Email	Please turn on the WLAN of your mobile phone and connect to the Smart WI-FI module hotspot.	C Device Connection (2) Step 1: Please turn on the WLAN of your mobile
Password	S100022030002	phone and connect to the Smart WI-FI module hotspot.
Demo Site Forget Password?	RD-LAB2	
	S130022300005	
Login	FLS-RD	Wi Fi
Lugin	FLS-BGS	
Do you have an account? Register	FLS2022	Linked:FLS-BGS
	Please Select Mobile WIFI	Please Select Mobile WIFI
		Next
Setup Network		Tips 1.Check whether the equipment is powered on normally(Check whether the indicator light of the Smart W-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: SXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

[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.

Connected:S	150020111333 Settin
Inverter Details	Battery Pack Details
Device SN	020510060022320058
Power OW Rated Power:0kW	Real-Time Data
Basic Information	
Device Model	IVGM100600
Collector SN	090101210020111333
Collector Version	V1.05
Control Version	V2.05
Version	V1.04
Today Power	0kWh

[Inverter Details Page]

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

[Arch Scale Diagram]

The arch is the current power $/\xspace$ rated power ratio

[Parameter Settings]

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

		< Pa	< Parameter Setting					
		Device SN:02	20510060022320)058				
		General Protect	ction Curve	e B	attery			
		Standard		Germany	~			
		AC Output Rated Voltag	ge	230	~			
		AC Output Rated Frequ	ency	50	~			
Connected:S150	nter	Operated Mode		Eco Mode	~			
Inverter Details	Battery Pack Details	🗐 Economic Mode	Setting		>			
Device SN	020510060022320058	LCD Backlight		Enable	~			
		Buzzer		Enable	~			
Power OW	Real-Time Data	Over Load Protection R	leset	Disable	~			
Rated Power:0kW	Real-Time Data	Remote ON/OFF		ON	~			
Basic Information		AC Output ON/OFF		ON	~			
Device Model	IVGM100600	Zero Export Mode		To load	~			
Collector SN	090101210020111333	Zero Export Power	0	D	W			

[Notes]

Non-professionals do not operate.

[Real-time Data]

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

Rea	al-time Da	ata Of Inv	erter	
SN: 020510060 Mode: LineMode	02232005	В		
	Up	odate Time	2022-12-0	09 10:52
III PV Data				\sim
	PV1	P	V2	PV3
nput Voltage(V)	0	10	0	0
nput Current(A)	0		0	0
Input Power(W)	0		0	0
	Year	Mo	onth	Day
PV Generated Energy(kWh)	0	5	0	0
📑 Battery Da	ita			\sim
Battery Voltage(\	ŋ		50	02.200
Battery Current(A)		-1	13.900
Battery Power(W	Y.			-6930
SOH(%)			10	000.000
	Total	Year	Month	Day
Battery Charge(kWh)	567.850	567.850	311.185	0
Battery Discharge(kWb)	626.794	626.794	390.528	25.025

[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.

Connected:S1500	020111333
Inverter Details	Battery Pack Details
😝 Device SN	071460005022110022
soc 15%	Real-Time Data
Basic Information	
Device Model	
Number Of Cells	10
Voltage	498.90V
Current	-12.90A
Firmware Version	V655.35
Control Version	V1.06
Battery Capacity	50Ah
Remaining Capacity(SOH)	100%
Collector SN	090101210020111333

[Arch Scale Diagram]

The arch is the remaining charge / 100% scale diagram $\ensuremath{\bar{\ensuremath{\mathcal{C}}}}$

[Real-time Data]

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

<	Real-time Da	ata Of Battery
SN: 0714	60005022110022	
	U	pdate Time:2022-12-09 10:52
📑 Und	derlying Data	~
Tot	tal Voltage	Total Current
т	otal SOC	Total SOH
Tot	al Capacity	Number Of Cells
Max C	ell TEMP NO. 1	Max Cell TEMP 25.000°C
Min C	ell TEMP NO. 1	Min Cell TEMP 23.000°C
🕂 Det	ailed Data	~
PA	CK Voltage 98.900V	PACK Current -12.900A
	SOC 5.000%	SOH 100.000%
Pac 5	k Capacity 0.000AH	
Max C	ell Voltage No. 11	Max Cell Voltage 3.180V
Min Ce	ell Voltage NO.	Min Cell Voltage 3.007V

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.

English 🗸	< Register	< Register
	Phone Email	Phone Email
~ 3₩L/\K	Please select a country	Please select a country
Phone/Email	Please enter your phone	Please enter email
	* Captcha 6 1-	5 0 * Captcha 6 1-5 0
Password	Verification code	ain + Verification code Obtain
Demo Site Forget Password?	Please enter your password	Please enter your password
Login	Please confirm your password	Please confirm your password
Do you have an account? Register	Please enter email	Please enter your phone
	Read and Agree User Terms and Privacy Policy	Read and Agree User Terms and Privacy Policy
	Register	Register
Setup Network Device Connection		

6. APP Home

[Overview]

Display all power stations, equipment statistics.

Overview	
Total Capacity(kWp) 20.00	1
PV Power Today 0 kWh	PV Power Month 0.06kWh Total 0.06kWh
Load Today 0 KWh	Load Month Okwh Total OkWh
AC Input Today 4.34 kWh	AC Input Month 328,54kwh Total 2185,20kwh
Battery SOC	85%
Remaining Available Time Day	y Hour Minute
Home Plant	Device My
[Total Capacity]	

11

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.

<	Create A Plant	
Plant Name	Please enter the plant name	•
Device SN	Please select or scan to add	[] *
Installation Date	2022-12-09	*
Plant Pictures	Upload Plant Pictures	
Plant Address	S Automatic Positioning	
Nation	✓ State ✓	County/City 🗸
Address	Please enter detailed address	
Time Zone	UTC+08:00 ~	
Local Electiricity	Local Electiricity	Currency 🗸
	Submit	

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 powerThe 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;

50

[Real-time SOC Chart] View today's SOC line, click to see a point in time data. Battery Information Today Charging Today Discharge 0.0kWh 9.78kWh Real-Time SOC(Battery Percentage Curve%)

[Photovoltaic Capacity Chart]

BOR BAR NO NO NA BOR AND AND SO BOR BOR BOR BOR BOR

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

PV Capacity



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

PV Capacity																
Day	ý		_	Μ	Month Y							Year Total				
					<	2	202	2-12	2	>)					
0.1																
0.075																
0.05		-														
0.025		-														
0	01	03	05	07	09	11	13	15	17	19	21	23	25	27	29	31

[Time Control]

You can select different year, month and day.

PV Capa	acity				
Day	_	Month	Year	Total	
		< 2022-	12 >		
0.1					
0.075	_				
0.05					
0.025					
0	01 03 05	07 09 11 13 1	5 17 19 21 23	25 27 29 31	
Canc	el	Please sele	ect a time	ок	
2018Year 2019Year			0BMc	onth	
2020Year			1 O M o	onth	
2021Year			11Month		
2022Year			12Month		

[Weather]

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



[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





[Devices List]

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

etc.

Sea	rch 🛛)evice	+
Please select	a device		evices 3 Online
Please sele	ct a device		Fault
Device Model			Offline
Device Mod	el		
Please select	a plant		
Please sele	ct a plant		More Actions :
Device Status			
All	Normal Online	Alarm Online	More Actions :
Fault	Offline	Not Monitored	
Device Type			
All	Off Grid Inverter	Hybrid Solar Inverter	More Actions :
Battery Pack			
Reset		Finish	
Home	● Plant	Device	My

[Device Online Rate]

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



$[\Sigma Device]$

Total number of device. [Device Status] Online: normal online, alarm online; Fault, Offline.



More Actions :

[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.



8.2 High Frequency Inverter Details



[Inverter Device details]

Display basic information of equipment SN, current power, rated power, realtime 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.

PV Power			Comparison				Battery Info					
Month			Quarter				Year					
				2022								
(kWh)												
1												
0.5												
0												
	1	2	3	4	5	6	7	8	9	10	11	12
2022												
Update Time:2022-12-09 09:20:00												

[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

Real-time Data Of Inverter
 SN: 020510060022320058
 Mode: LineMode
 Update Time:2022-12-09 09:10:00
 < 2022-12-09
 </p>

[Photovoltaic Data] Voltage, current, power, etc.

PV Data			\sim
	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 D)ata			\sim
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	а		\sim
	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 Outp	ut		\sim
	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 Con sumption(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.

Inverter Details
Battery Pack Details
Device SN
071460005022110022

[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.







[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

<	Real-time Data Of Battery					
	SN: 071460005022110022 Update Time:2022-12-09 09:20:00					
	< 2022-12-09 >					

[Basic data]

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



[Detailed Data]

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

Detailed Data	\vee
PACK Voltage 518.50V	PACK Current -16.80A
SOC 67%	SOH 100%
Pack Capacity 50AH	
Max Cell Voltage No. —	Max Cell Voltage
Min Cell Voltage NO. 1	Min Cell Voltage
Cell Voltage(V)	
-	

[Pagination]

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

< 16:30 > Σ107

9. APP My

Demo	
💬 Message	>
★ Favorites	>
道 Alarm	>
2 Personal Information	>
💄 About Us	>
Setup Network	>
Device Connection	>
Seedback And Warranty	>
🔅 Setting	>
Home Plant Device	And the second s

[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.

<	Personal In	formation		
Name Demo		۲	Save	
Change Passwor	d			>
Modify Phone Nu	mber	199999	99999	>
Modify Email		demo@felicitysola	ar.com	>
Account Deletion				

[About Us]

Show your content about us.

<	About Us
	FSOLAR
	V1.52
The curr cloud platfor	ent version of <mark>Fsolar</mark> is an intelligent
photovoltaic real-time mo equipment m alarm and ot the informati stations.	data monitoring. It provides users with nitoring, power station management, anagement, remote control, intelligent her functions, so that users can realize on management of photovoltaic power
photovoltaic real-time mo equipment m alarm and ot the informati stations.	adata monitoring. It provides users with nitoring, power station management, anagement, remote control, intelligent ner functions, so that users can realize on management of photovoltaic power e 020-87432120

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[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 And Warranty
Feedback On Fsolar >
Device Warranty >
History >

[Feedback - System Suggestions]

Feedback On Fsolar		
Demo	demo@felicitysolar.c	
19999999999		
Problem Description		
Please Describe The Relevant Or Any Suggestions \	Problems You Have Encountered You Would Like To Make 0/200	
Upload Photos Or Videos		
+		
Up To 3 Pictures Or V	rideos Can Be Uploaded	
SL	ıbmit	

[Problem Feedback - Device Warranty]

<	Device Warranty	
Faulty Device		
Please select a de	evice	B
Problem Descriptio	n	
Please Describe Th Or Any Su	e Relevant Problems Yo ggestions You Would Lik	u Have Encountered e To Make
		0/200
Upload Photos Or V	'ideos	
+		
Up To 3 P	ictures Or Videos Can Be	Uploaded
Device Address		
Plant Point	Current Position	Manual input
Nation 🗸	State 🗸	
Address Please e	inter detailed address	
	Submit	
[Feedback	- Histo	ry]
<	History	
Feedback On F	- <mark>solar</mark> De	vice Warranty
Feedback On Fsolar		>

[Settings]

2022.12.07 17:23:09

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

language, logging out, etc.

<	Setting	
Clear Cache	3.39MB	>
Check For Updates	V1.52	>
Switch Language		>
Logout		