Step 1. Connection between inverter and CubeWiFi module

Plug CubeWiFi into the WiFI/GPRS port.



Turn on the inverter, **red LED flashing** indicates the inverter and CubeWiFi communication is normal.

Step 2. Download PVbutler APP

Re-connect your cellphone to your own WLAN WiFi, scan the QR code as below to download PVbutler APP, or go to the website: <u>http://server.pvbutler.com</u> download and install it.



Android & iOS

Step 3. Registration and Adding Datalogger

1. Registrate your account in "PVbutler" APP.

Open PVbutler APP, click "Register" on login page. Select country and city, then click "Next" enter next page. Note: If you select a wrong country and city, the system time may be wrong. Fill out the required information, then click "Next", it will guide you to the "Addplant" page.

2 Usernacie	
Enter username	×
B Passiword	
	~
Forgot password	Register
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Quick registra	ation

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<	Register			
Current server address:				
* 🛞 Country	Please choose country			
* 💄 Username	Enter username			
* 🔒 Password	Enter password			
* 🔒 Repeat password	Repeat password			
C Phone number	Enter phone number			
* 🔛 Email address	Enter email			
Installer Code	Input installer Code			
Terms and conditions agreed				
Register				

http://server.pvbutler.com

2. Add your solar inverter (CubeWiFi box) into your "PVbutler" account.

After finishin adding the Plant, it will switch to the "Add datalogger" page. On "Add datalogger" page, scan or input the CubeWiFi serial number into "Datalog SN" box and input the check code into "Datalogger Checkcode" box, then click "Register", it will move you to the "Set CubeWiFi" page.

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	Add Plant	Skip	<	Add datalogger		<	Scanning a barcode
* Plant name	Enter the Plant name		Enter the c	ollector serial number a	nd check code		
* Installation date	Select the installation date		L.	SN:0123456789	CC-12345		
Plant address		Annual Manual	SN	Input datalogger SN	E Scan		
* China	✓ City	×	Check code	Input datalogger checkco	de		
Please enter the fu	II address					г	
Longitude	Latitude			Confirm		· (•	
* Time zone	+08	~				FC	5N.IQB17290F1 CC:57E46
* PV capacity(w)	PV capacity						
* Plant type						7.	
Household plant	Commercial plant	Ground plant					
(Conversion :	standard based on 1kWh power	generation)					
Fund income		DOLLAR 🗡					
PV Plant picture	+ Upload P	licture					

3. Connect your solar inverter to the your local WiFi network.

Fill in your local WiFi network and password, then click "Configuration", after successful configuration, a note will pop up "Configured successfully", then it will move to the "My Plant" page.

Note: There are 3 LEDs on CubeWiFi, only the blue LED flashing indicates the CubeWiFi module is successfully connected to the router and PVbutler server.

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	CubeWifi-S Configuration			
* 1. Con	nect your phone to the r WIFI-E module is to b	outer to which the e connected		
2.For a passw passw needs press than 3	configured ShineWiFi, if yord has been replaced, to be reset before conf the KEY button on the c seconds until the LED	the router or router the ShineWiFi figuration. (Please datalogger for more light is long bright.)		
Name	WLAN Name Click fo			
Password	Password of router			
	Configuratio	n		

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<	
* 1.	
2.F F r f	
Na	me WLAN Name Click for
	Configured successfully
Passw	Please drop down to refresh device list to get device information after 5 mimutes
	Yes
	200s

4. Start morntoring your solar system:

After successful configuration, it will move to the "My plant" page, select the inverter in the device list to check the inverter update information. Choose the device from "My device list", you will enter the device page where you can check the device status, records, and do remote setting and control.



5. Add/check/configure/delete your solar system.

Click the "+" sign on the right top side of the "My Plant" page. There are 3 options.

- 1) "Add datalogger" is for adding a new CubeWiFi module to this account.
- 2) "Check datalogger" is to check the CubeWiFi you have added in this account.

After choosing "Check datalogger", it will move to "Datalogger list" page. Long press the serial number, it will show a dialog with 3 options.

- a) "Change device alias" is used to change the name of the device
- b) "Configure datalogger" is used for configuring the connection of the CubeWiFi module to the router.
- c) "Delete datalogger" is used to remove the CubeWiFi module from this account.
- 3) "Add plant" is used to add a new plant page to this account.





http://server.pvbutler.com

Step 4. Reset CubeWiFi to Factory Settings

When you have changed your home router password, or changed to a new router, you need to reset CubeWiFi to factory settings and reconfigure it. Press the KEY button for 6 sec, until all three LEDs long light up, then login to your PVbutler account, click the "+" on right top of this page, long press this datalogger serial number to reconfigure.

CubeWiFi State

LED State	Indication
ALL three LED off	CubeWiFi not connected well with inverter USBport
Only Red LED flashes	CubeWiFi and inverter communication is OK
Only Green LED flashes	CubeWiFi, inverter and router communication is OK
Only Blue LED flashes	CubeWiFi, inverter, router and server communication is OK

CubeWiFi KEY Button Description

Operation	Description
When CubeWiFi is powered on, press the KEY button. (CubeWiFi	CubeWiFi will enter to AP mode (.AP mode
LED will change from flash to alwaysON)	is a debug mode, only allowed for the
	professional)
When CubeWiFi in AP mode, press The KEY button of CubeWiFi	Quit AP mode
(CubeWiFi LED will change from always ON to flash)	
Long press the KEY button for More than 6 sec (CubeWiFi All LEDs	Reset CubeWiFi to Factory settings
always ON)	

Troubleshooting

LED State	Indicate	Troubleshooting
All three LEDs are dark	CubeWifi can not find inverter	1.Try to reconnect CubeWiFi to the inverter USB port
	via USB port	2.Try to restart the inverter
After configuration,	CubeWiFi can't connect to the	1. Check router information
only Red LED flashes	home router	a) Router name should consist of English letters and
		numbers, it does not support special symbols
		b) For safety reason, please use encrypted wireless
		network
		c) It does not support public network that use
		secondary authentication
		2. Check if you filled in the correct name and
		password of the home router when configuringit
After configuration,	CubeWiFi already connected to	1. Check if home router is connected to the internet
Only Green LED	the home router, but not	2. Check if the router firewall allows to select port
flashes	connected to PVbutler server	5279 and 5280
After configuration,	CubeWiFi communication OK	Normal working state
Only Blue LED flashes	with inverter, home router, and	
	PVbutler server	
Red LED always ON	CubeWiFi module error	Need to replace with a new CubeWiFi
Green LED always ON	CubeWiFi module in switching	No response if you press the KEY button during this
	mode	period
Blue LED always ON	CubeWiFi module is in AP mode	Debug mode, short press the KEY button toquit