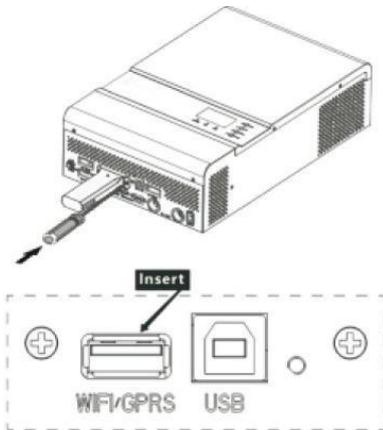


Step 1. Connection between inverter and CubeWiFi module

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: <http://server.pvbutler.com> download and install it.



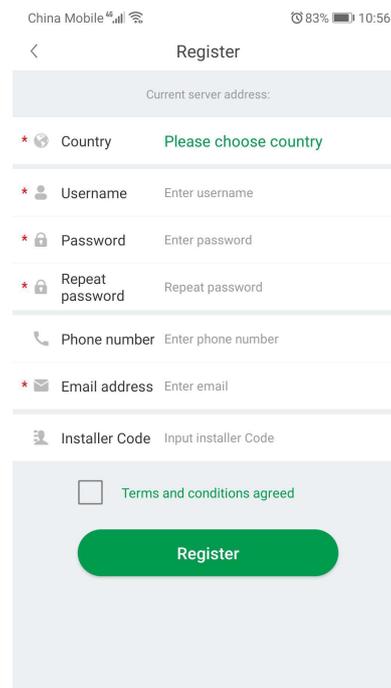
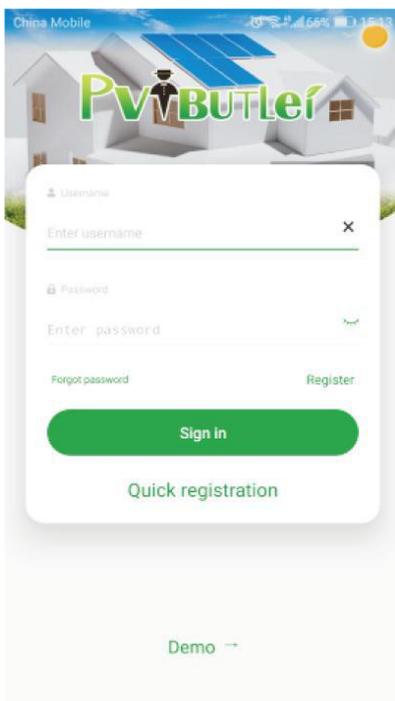
Android & iOS

Step 3. Registration and Adding Datalogger

1. Registrate your account in "PVbutler" APP.

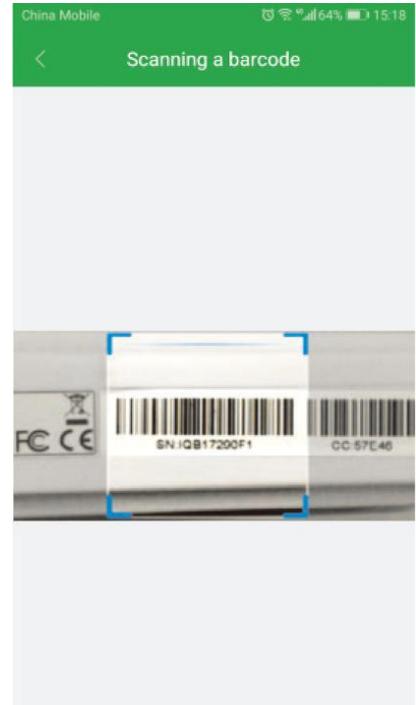
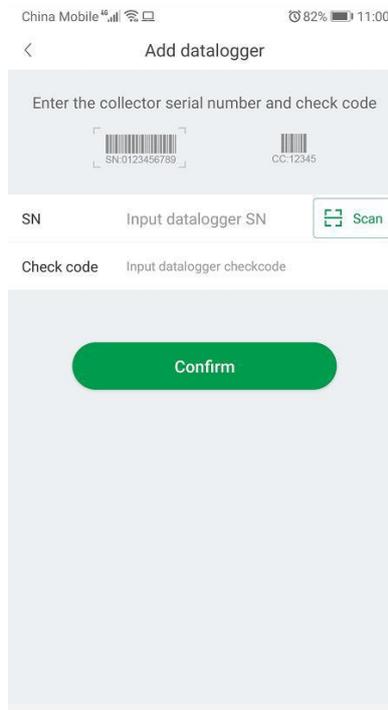
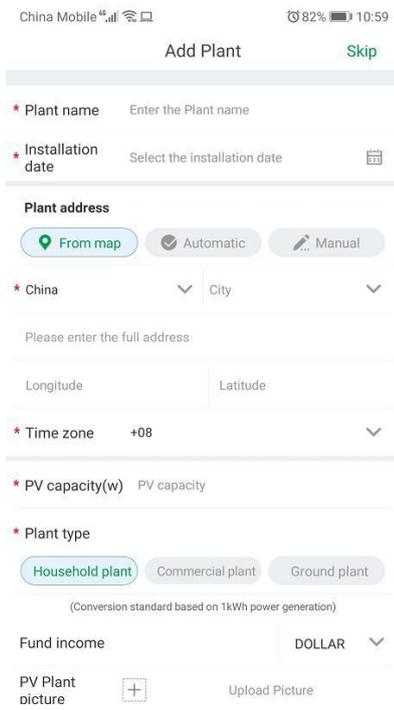
Open PVbutler APP, click "Register" on login page. Select country and city, then click "Next" enter next page.

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

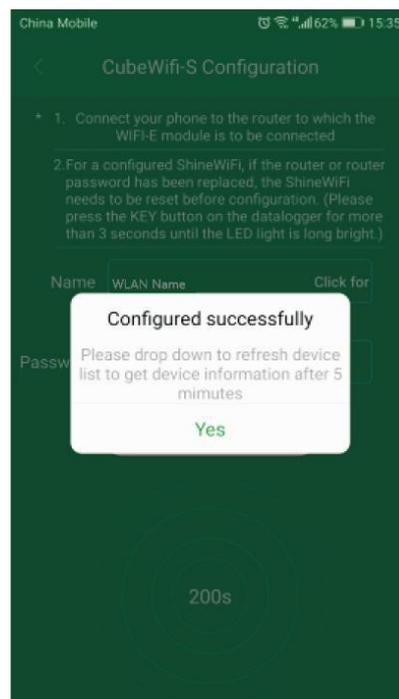
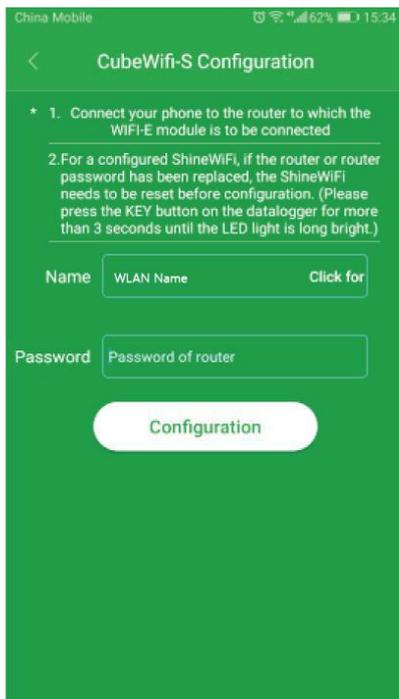
After finishin adding the Plant, it will switch to the "Add datalogger" page. On "Add datalogger" page, scan or input the CubeWiFi serial number into "Datalog SN" box and input the check code into "Datalogger Checkcode" box, then click "Register", it will move you to the "Set CubeWiFi" page.



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

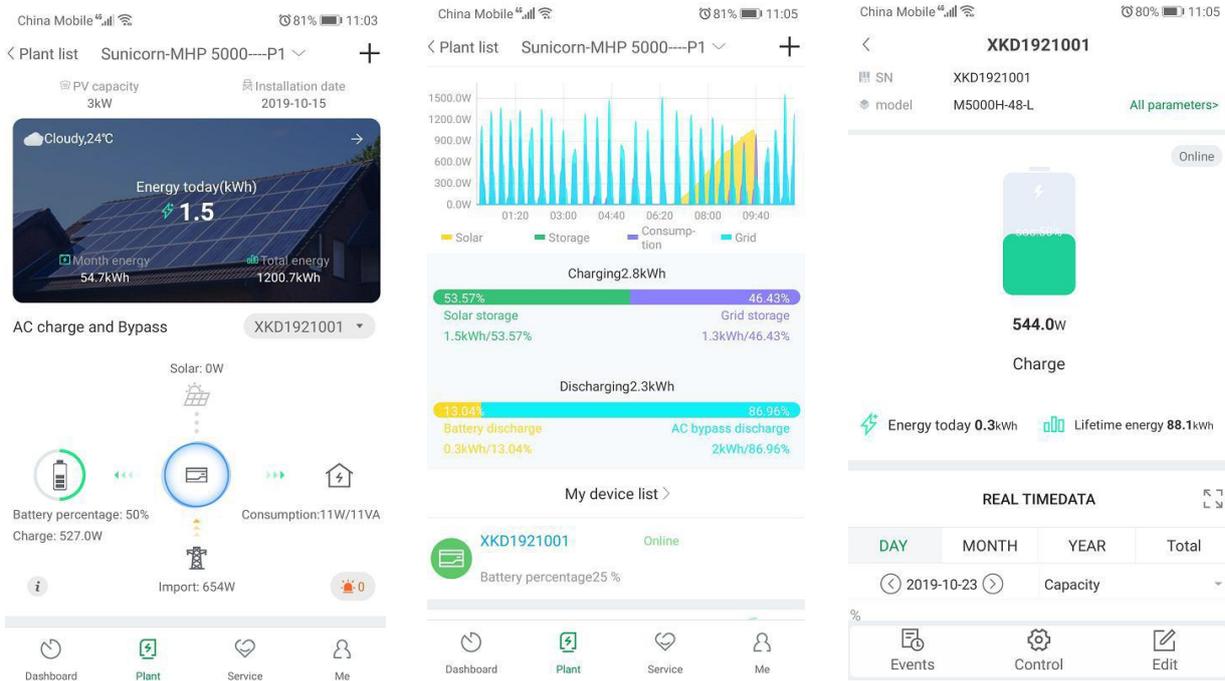
Fill in your local WiFi network and password, then click "Configuration", after successful configuration, a note will pop up "Configured successfully", then it will move to the "My Plant" page.

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.



4. Start monitoring 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.



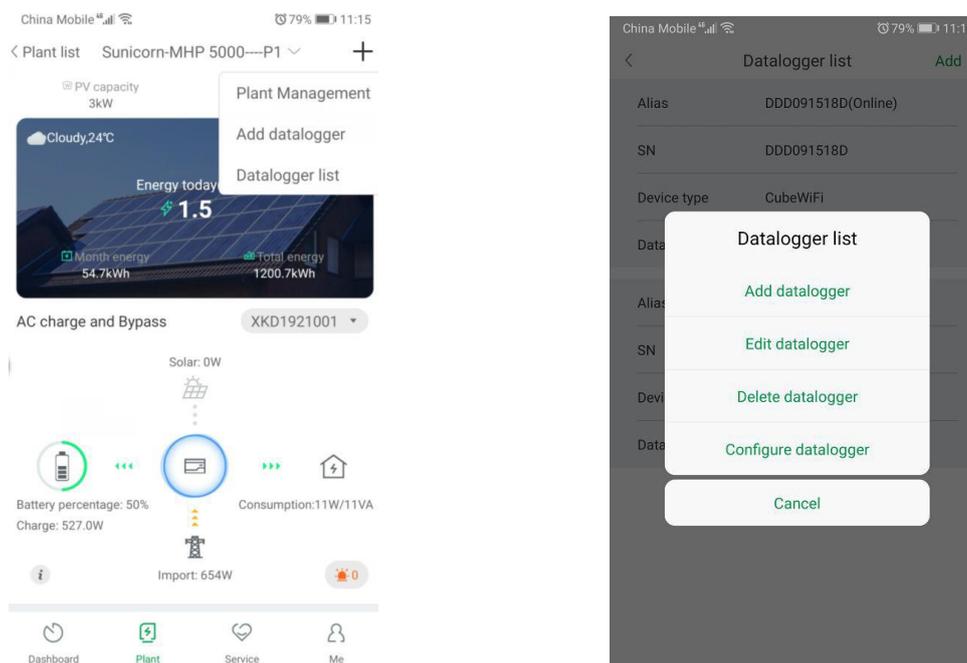
5. Add/check/configure/delete your solar system.

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.



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

Troubleshooting

| LED State | Indicate | Troubleshooting |
|---|---|--|
| All three LEDs are dark | CubeWiFi can not find inverter via USB port | 1. Try to reconnect CubeWiFi to the inverter USB port 2. Try to restart the inverter |
| After configuration, only Red LED flashes | CubeWiFi can't connect to the home router | 1. Check router information 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 configuring it |
| After configuration, Only Green LED flashes | CubeWiFi already connected to the home router, but not connected to PVbutler server | 1. Check if home router is connected to the internet 2. Check if the router firewall allows to select port 5279 and 5280 |
| After configuration, Only Blue LED flashes | CubeWiFi communication OK with inverter, home router, and PVbutler server | Normal working state |
| Red LED always ON | CubeWiFi module error | Need to replace with a new CubeWiFi |
| Green LED always ON | CubeWiFi module in switching mode | No response if you press the KEY button during this period |
| Blue LED always ON | CubeWiFi module is in AP mode | Debug mode, short press the KEY button to quit |