solis

Solis Wi-Fi/4G Stick Data Logger Quick Installation Guide

For S1-W4G-ST(USB)

Version: 1.1

Delivery Content
- Wi-Fi/4G Stick(USB) x1
- Quick Installation Guide x1

# 1 Install

1.1 Install the data logger

Connect the data logger to the corresponding USB port of the inverter. A Solis 50K inverter is used here as an example.

Please follow the instructions below:
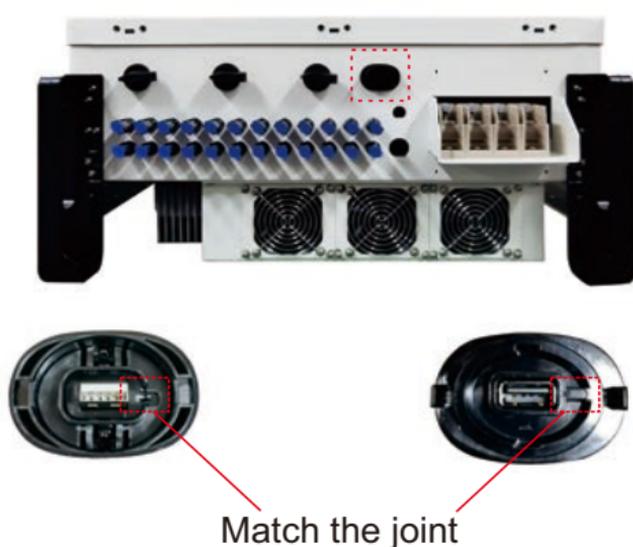
Match the joint

Install the data logger:

Step 1: Press both sides of the protective cover and open the inverter USB port protective cover.
Step 2: Match the joint, and then align the data logger with the USB port groove of the inverter , and plug the logger directly into the port.

①   **②**

1.2 Install with multiple inverters

If you need to collect data from multiple inverters, please follow the inverter user manual to establish a communication connection with the inverter using the RS485 communication cable in a "hand-in-hand" manner.

| Inverter 1 | Inverter 2 | ... ... | Inverter n |
| RS485 | RS485 | | RS485 |

Hand-in-hand connection of multiple inverters

COM
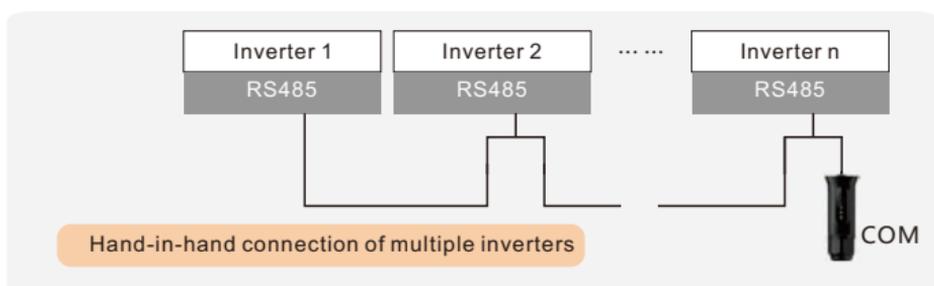
After the data logger is installed on the inverter, if the inverter is powered on, you need to set the inverter slave address. The default slave address of the inverter is 01, and each inverter on the communication circuit needs to be assigned with different slave address(like 01, 02, 03, 04…).

📖 **NOTE**

The device must be installed away from the strong magnetic field produced by large electrical appliances such as microwave oven, refrigerator, telephone, metal walls, etc. Otherwise, the communication quality may be affected. It may also be affected by lighting storm.

2 LED and Button

2.1 LED Lights Status

LED indicators	Description	LED Status	Meanings
Internet Indicators ● (NET Wi-Fi) ● (NET 4G)	Shows the connection status between & the Wi-Fi(green) or 4G cellular network(blue).	Flashing	Trying to connect with server
		ON	Successfully connected
		OFF	Abnormal connection
Inverter COM Indicators ●(COM)	Shows the connection status between data logger and the inverter.	Flashing	Trying to connect with inverter
		ON	Successfully connected
		OFF	Abnormal connection
Power Indicator ●(PWR)	Shows the power supply status of the data logger.	ON	Data logger is powered up normally
		OFF	Data logger is powered up abnormally

When all three lights are on, it means that the data logger is working normally. Otherwise, please contact the manufacturer's customer service.

2.2 RESET Button Instruction

Operation	Instruction
Short press	Send an inverter real-time data to SolisCloud.
	Reconnect to the network when the logger's network is disconnected.
Long press for over 10 seconds (release when the yellow and green lights go out)	Restore factory settings to erase memory data and network configuration information. (network reconfiguration is required after reset).

3 Create the SolisCloud Account

Step 1: You can download the SolisCloud mobile APP by scanning the QR code or searching "SolisCloud" from APP Store or Google Play Store.

📖 **NOTE**

We strongly recommend that you download the latest version of the SolisCloud APP before proceeding to the next step to match more features.

Step 2: Tap "Register".

Step 3: Select Owner or Organization for registration.

Step 4: Enter your email address and input the verification code you received, then set a username and password to complete the registration.


Organization(2/3)

Note: If your organization has registered an account in SolisCloud, you do not need to register again. Please contact the administrator to add you as a sub-organization or member in organization management.

* Registration Method

	100S

☑ * I have agreed Privacy Policy

Previous Next

Organization(3/3)

Note: If your organization has registered an account in SolisCloud, you do not need to register again. Please contact the administrator to add you as a sub-organization or member in organization management.

* Email

* Organization (Company) Name

Input 2 to 60 characters

* User Name

Enter username

* Password

Password

Password Strength: ▬▬ ▬▬ ▬▬ ❓

* Confirm Password

Enter password again

* Organization Code

9841F5

Previous Register

Owner(2/3)

* Registration Method

[blurred text]

[blurred] | 93S

☑ * I have agreed Privacy Policy

Previous | Next

Owner(3/3)

* Email

[blurred text]

* User Name

[blurred]

* Password

👁

Password Strength: ▬▬ ▬▬ ▬▬ Medium ❓

* Confirm Password

👁

* Time Zone

(UTC+08:00) PRC >

Previous | Register

Step 5: Registration is completed.

Register successfully

Login to Home
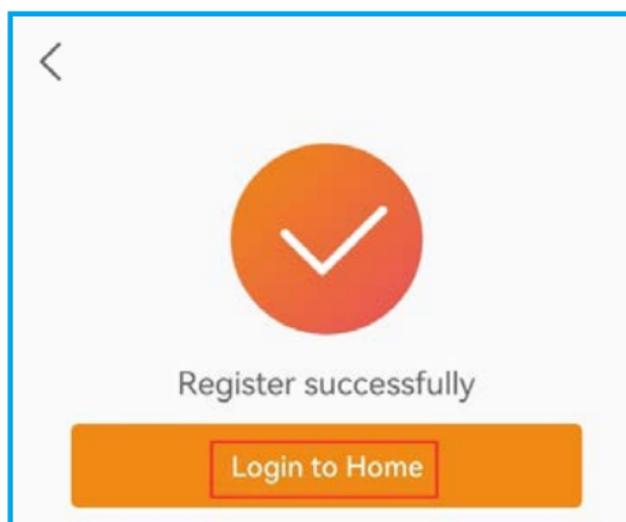
4 Create Plant

Step 1: Enter the home page of SolisCloud APP,
tap "Add Plant" in the middle of the page.
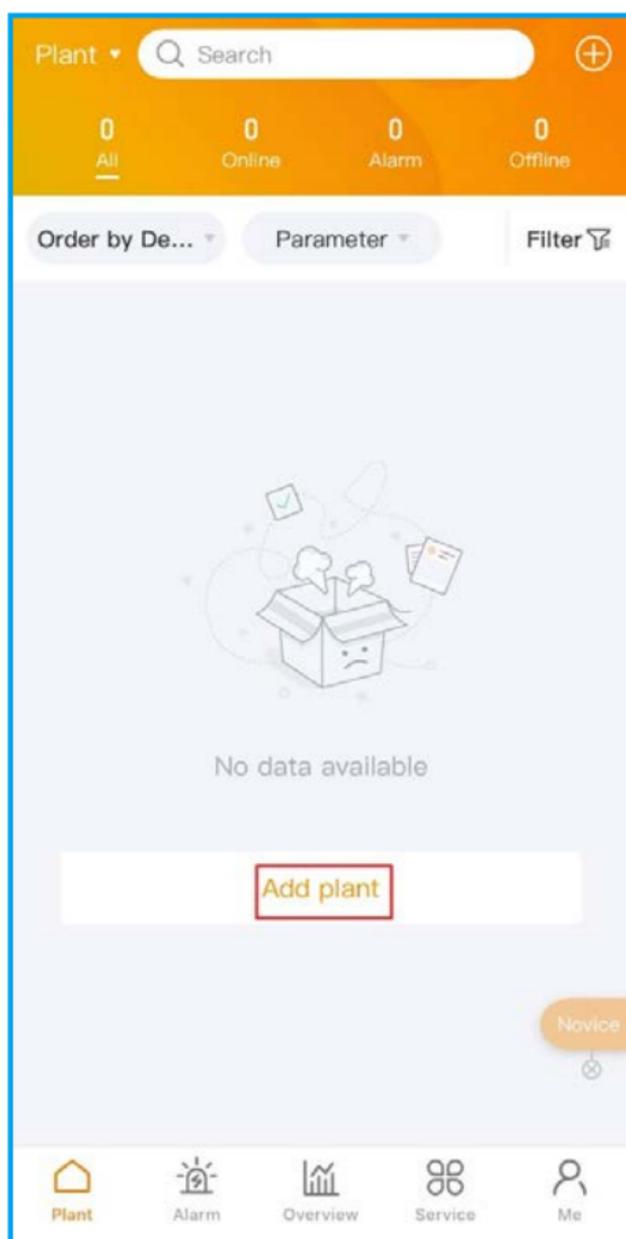
Step 2: Enter the plant details and then tap "Next".

Add Plant

① Basic Information — ② Tariff Managem... — ③ Associate account — ④ More Information

* Plant Name	
* Plant Type	Residential >
* Capacity(kWp)	
* Area	
* Plant Address	
* Time Zone	(UTC+08:00) PRC >
* Currency	USD >
Organization Code	Input Organization Code >

Next

Add Plant

✓ Basic Information — ② Tariff Managem... — ③ Associate account — ④ More Information

Feed-in Tariff

* Tariff Type	Fixed Tariff >
* Tariff(USD/kWh)	

Previous   **Next**

Company Tariff >

Add Plant

✓ Basic Information — ✓ Tariff Managem... — ③ Associate account — ④ More Information

Add Guest ⊕

Previous   **Next**

Step 3: After entering the required information, tap "Create Plant".

Step 4: Plant creation is completed. It will automatically enter the APP homepage.
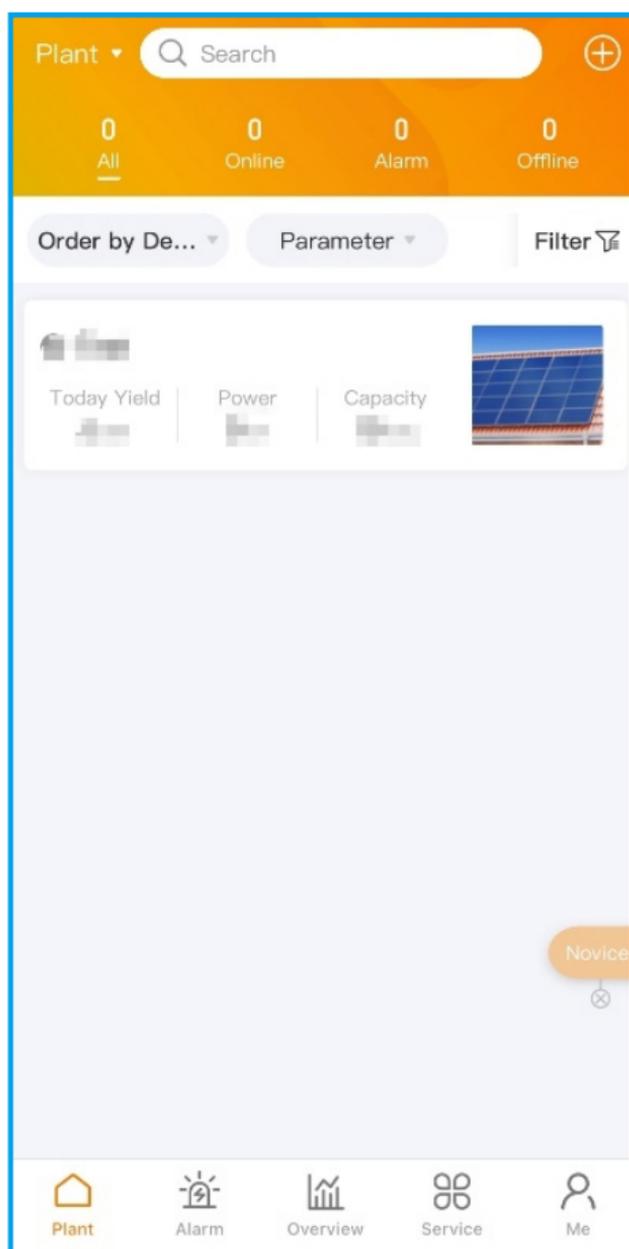
5 Bind the data loggers

Step 1: Tap on the plant to enter the plant home page. You will be prompted to add a data logger, tap "Add" to add the logger.
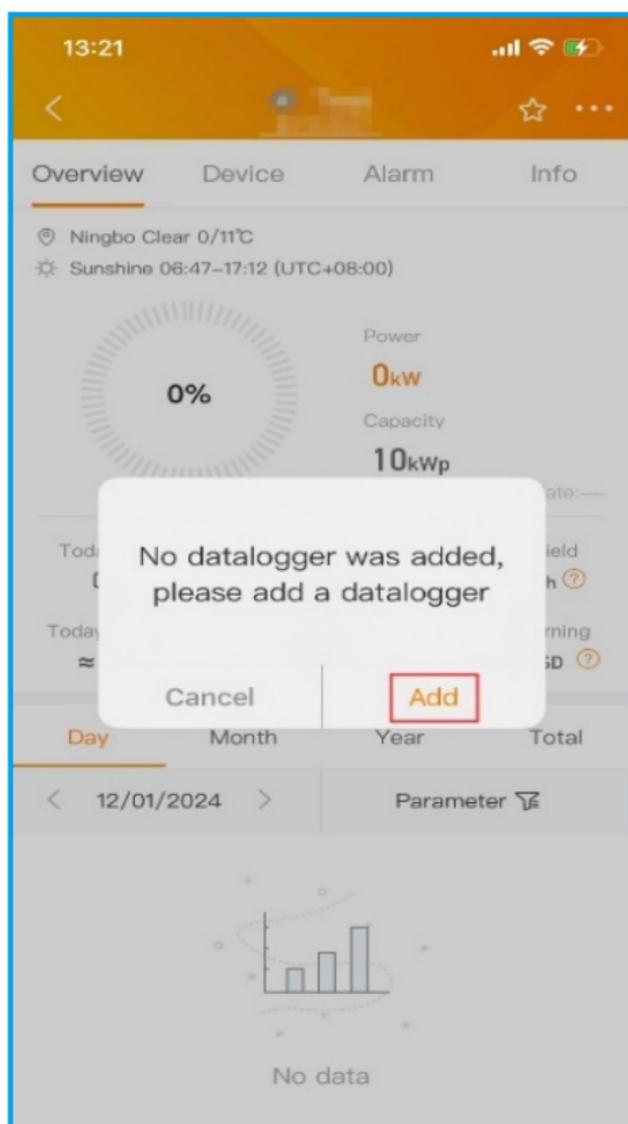
Step 2: Scan the QR code on the logger or manually enter the SN of the logger, and then tap "OK".
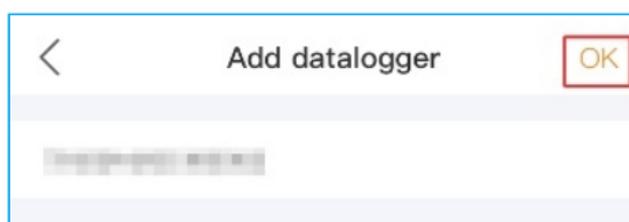
Step 3: Bound successfully. If the plant has multiple data loggers, please tap "Continue to bind" to bind other data loggers.
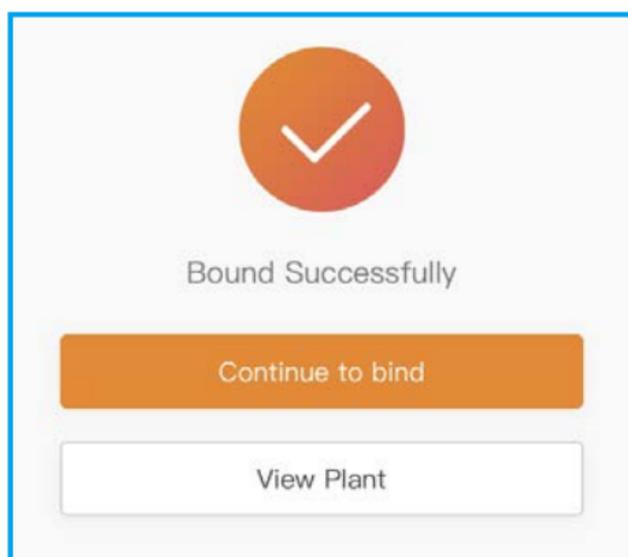
6 Network Configuration

The W4G logger can be set in three different working modes. Please refer to the descriptions below to select the mode you need.

Option	Description
4G+WiFi	Automatically switch based on network signals. Strong WiFi signal->WiFi Weak WiFi signal or No WiFi signal->4G
WiFi	WiFi only working mode
4G	4G only working mode

The default network mode is 4G+WiFi (Wi-Fi first). Please refer to 6.1 for Wi-Fi configuration and refer to 6.2 for 4G configuration.

6.1 Wi-Fi Configuration

Step 1: Tap "Service" page, and then tap "WiFi Configuration" in the toolbar.
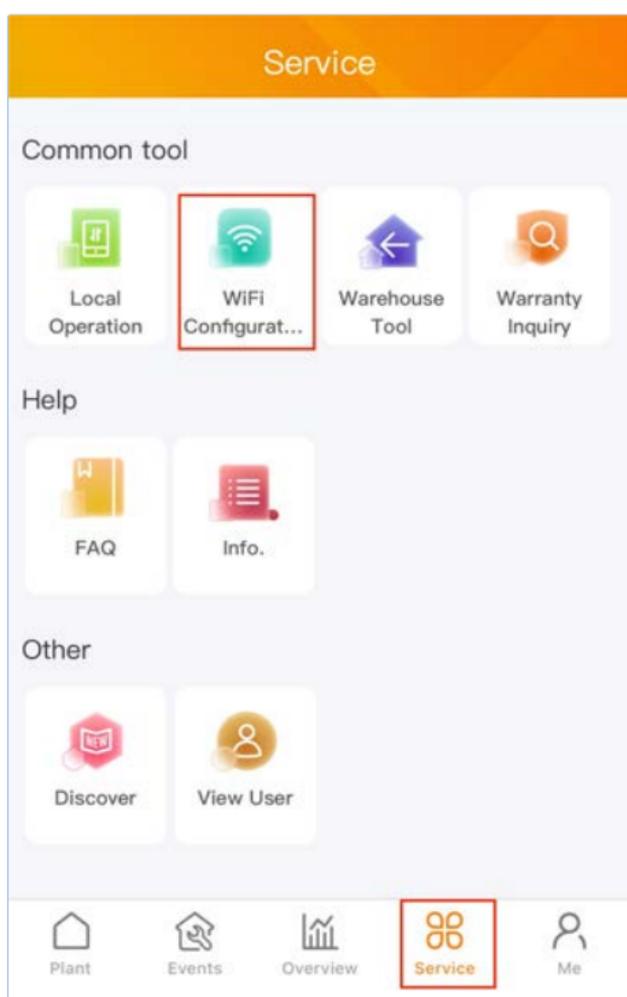
Step 2: Scan the QR code on the logger or manually enter the SN of the logger and then tap "Next".
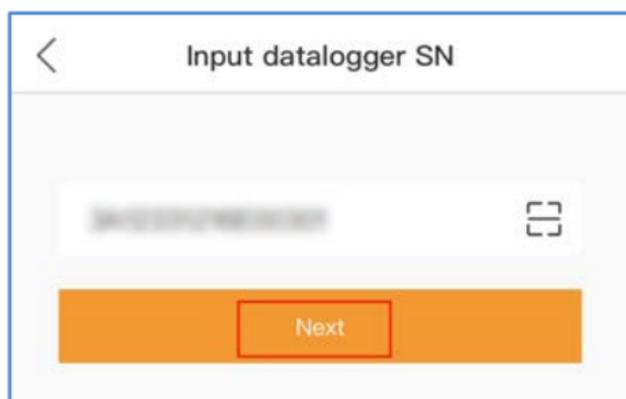
Step 3: Choose the configuration method, tap "Configuration by Bluetooth".
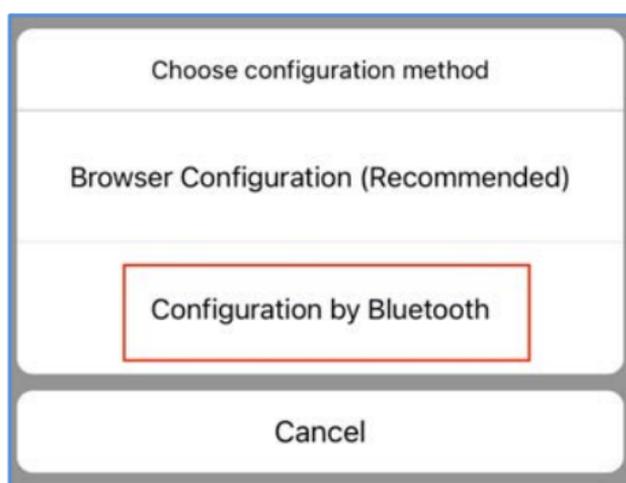
Step 4: Select the Device called "D_serial number of the inverter".
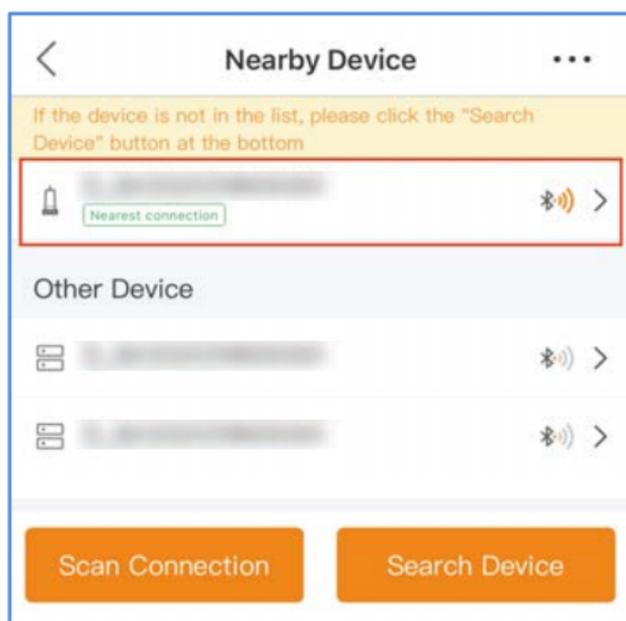
Step 5: Tap "Select WiFi" to jump to the WLAN settings on your phone. Search for Local Area Network and then select the network you want to connect. Then switch back to the page to fill in the WiFi password, and then tap "Start Configuration".
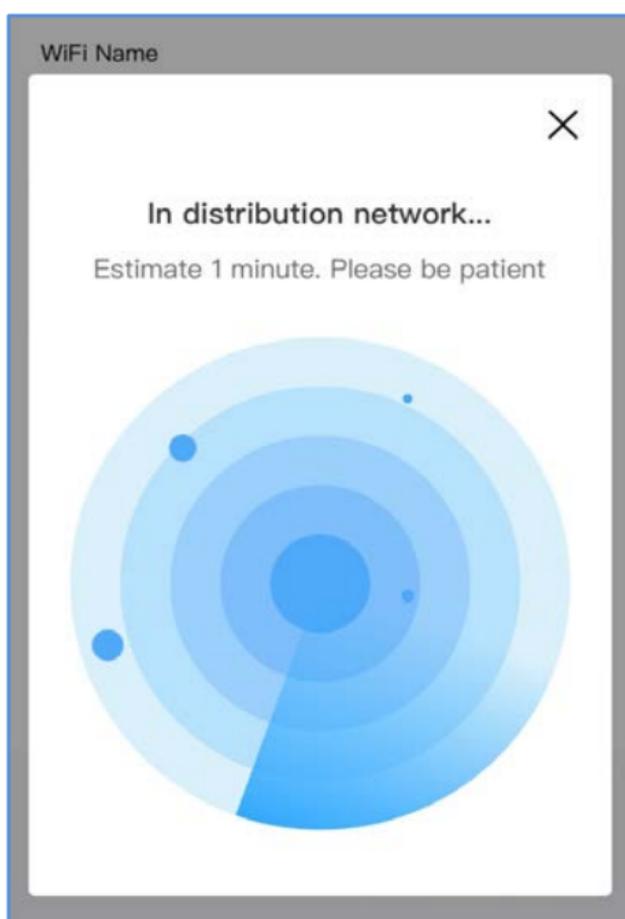
Step 6: Configuration is completed.

Configuration Complete

Configuration Complete

OK(3/3)
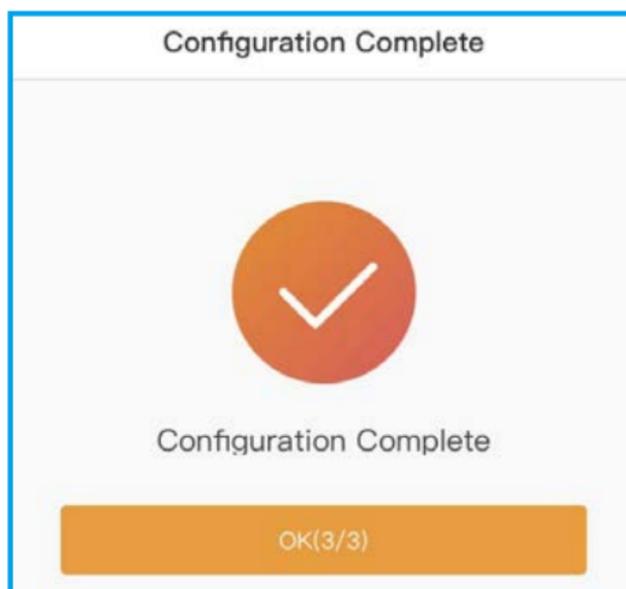
6.2 4G Configuration

If your data logger includes SIM card, no additional configuration required. Otherwise, you need to buy and install a SIM card manually, and follow the steps below to set the APN.

Step 1:Tap "Service" page, and then tap "Local Operation" in the toolbar.
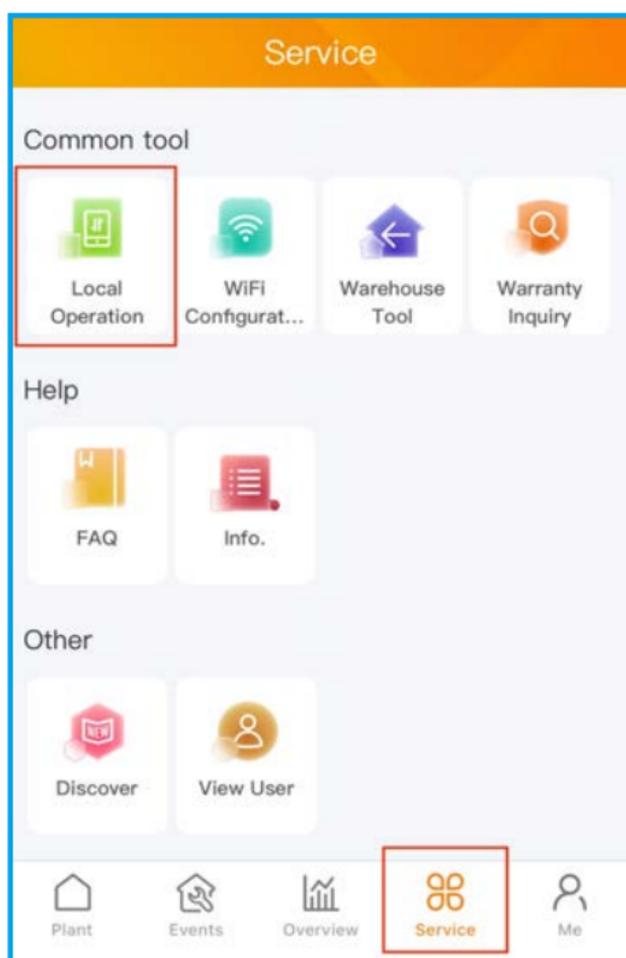
Step 2: Tap "Connect With Bluetooth".
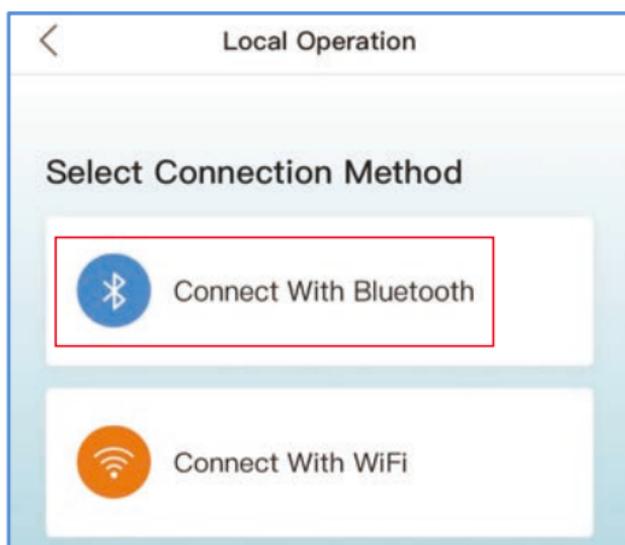
Step 3: Select the Device called "D_serial number of the inverter" to enter the configuration details page.
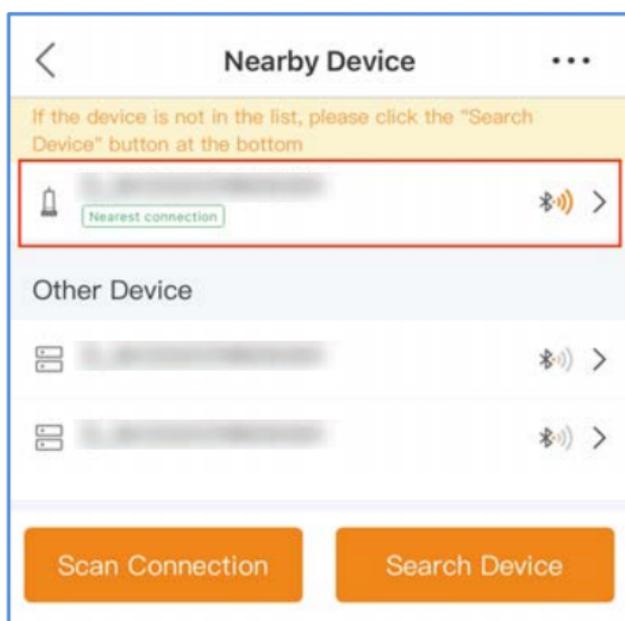

Step 4: Tap "Setting" at the bottom of the configuration details page.
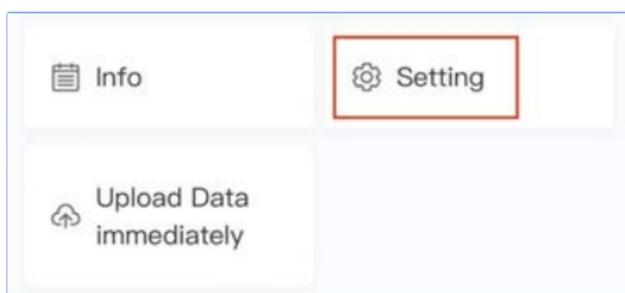
Step 5: Tap "APN Set" and enter the APN information (If APN is no User Name and Password, unnecessary to fill in), then tap "Save".
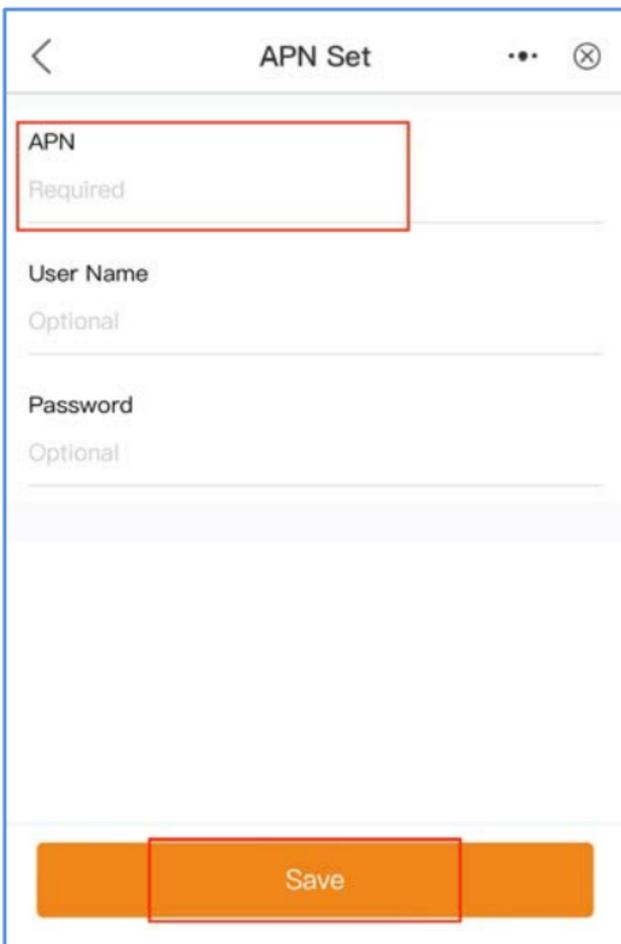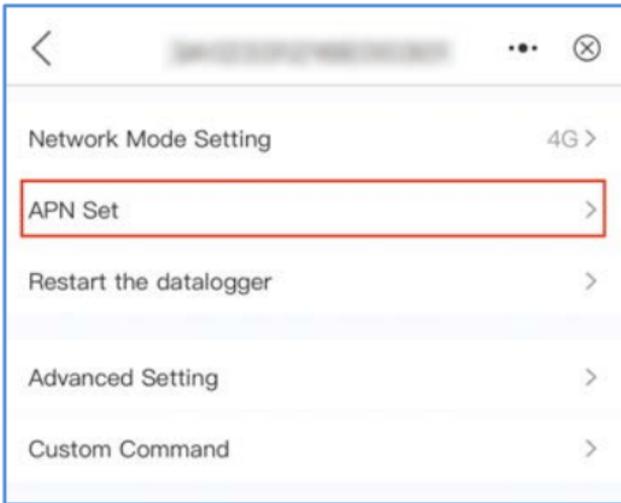
Step 6: The authentication is successful.
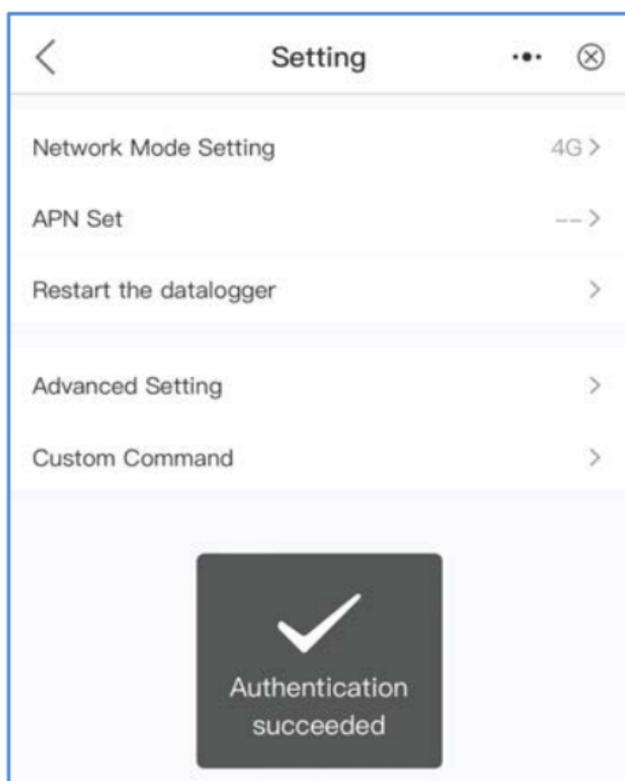
IMPORTANT NOTE

If you want to change the working mode, select "Setting->Network Mode Setting" on the configuration details page. Make sure that you have configured the appropriate network mode before making changes.
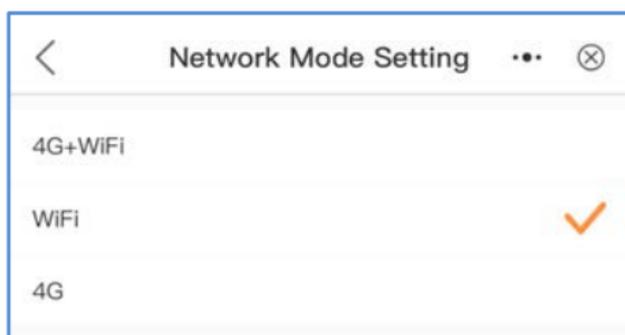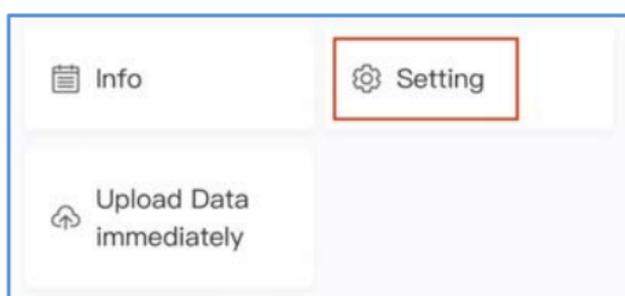
Contact

Please contact us if you have any technical problems in terms of the product. Please provide the following information as well:

◆ Inverter SN
◆ Data logger SN
◆ Problem Description

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