



Solis Wi-Fi Stick Data Logger Quick Installation Guide

For S5-WiFi-ST-USB

Version: 1.1



Delivery Content

- Wi-Fi stick(USB) x1
- Quick Installation Guide x1

NOTICE

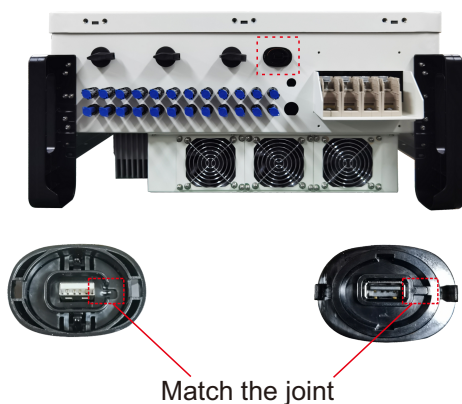
The contents of this manual may be updated from time to time due to product version upgrades or other reasons. Please refer to the actual product if this manual does not match the actual product.

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:



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.



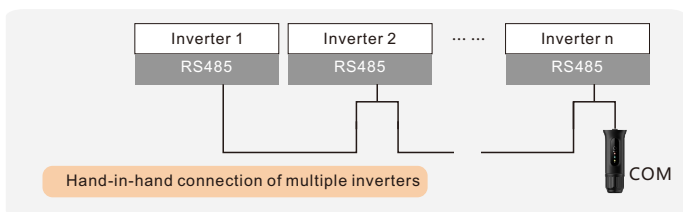
1



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.



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)	Shows the connection status between the data logger and the server.	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".

The screen has an orange background with a faint pattern of solar panels. On the right is a cartoon character with orange hair, wearing a white suit and a tie. The text "Hello! Welcome to SolisCloud" is on the left. Below is a white login form with fields for "Username/Email" and "Password". There are checkboxes for "Remember" and "I have agreed Privacy Policy". A "Log in" button is in the center, and a "Register" button is in the bottom right corner, highlighted with a red border.

Step 3: Select Owner or Organization for registration.

The screen has a white background with a blue header bar containing a back arrow and the text "Select Role(1/3)". There are two main options: "Organization" (Installer Dealer) with an orange icon of a person and a gear, and "Owner" (Plant Owner) with a green icon of a person and a plant.

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

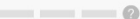
Input 2 to 60 characters

* User Name


Enter username

* Password


Password 

Password Strength:  ?

* Confirm Password

Enter password again 

* Organization Code

9841F5 

Previous **Register**

< Owner(2/3)

* Registration Method

[Redacted]

[Redacted] 93S

* I have agreed [Privacy Policy](#)

Previous Next

< Owner(3/3)


* Email


[Redacted]

* User Name


[Redacted]

* Password

[Redacted] 

Password Strength: Medium 

* Confirm Password

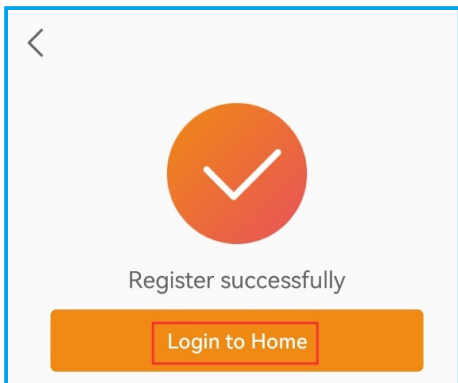
[Redacted] 

* Time Zone

(UTC+08:00) PRC >

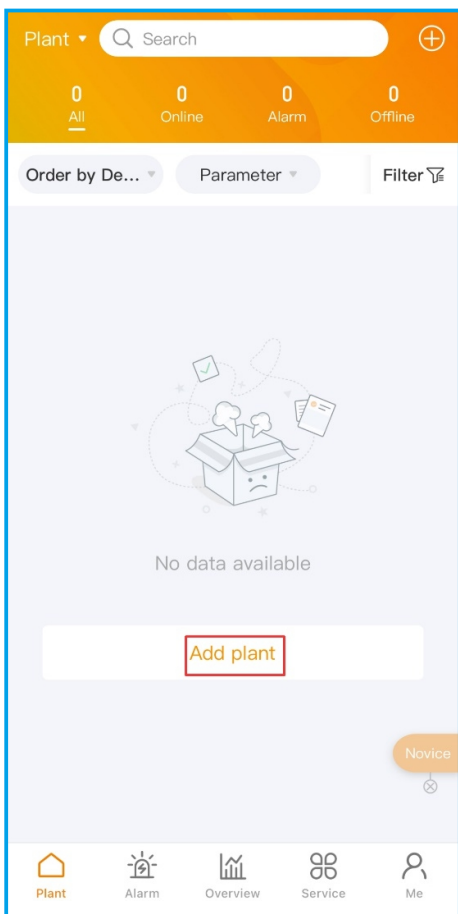
Previous Register

Step 5: Registration is completed.



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

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

Feed-in Tariff

* Tariff Type Fixed Tariff >

* Tariff(USD/kWh)

Previous **Next**

Company Tariff >

Add Plant

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

Add Guest ?

Previous **Next**

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

Add Plant

Progress: Basic Information ✓ — Tariff Management ✓ — Associate account ✓ — **More Information 4**

Installer Email: Input installer email

Installer Phone: Input installer Phone

Module: Input number of modules

Grid Interaction Type ? **Maximum Export >**

Grid Connection Time ? **Please select date >**

Plant Contact Phone: Input phone

Access Platform Time ? **Please select date >**

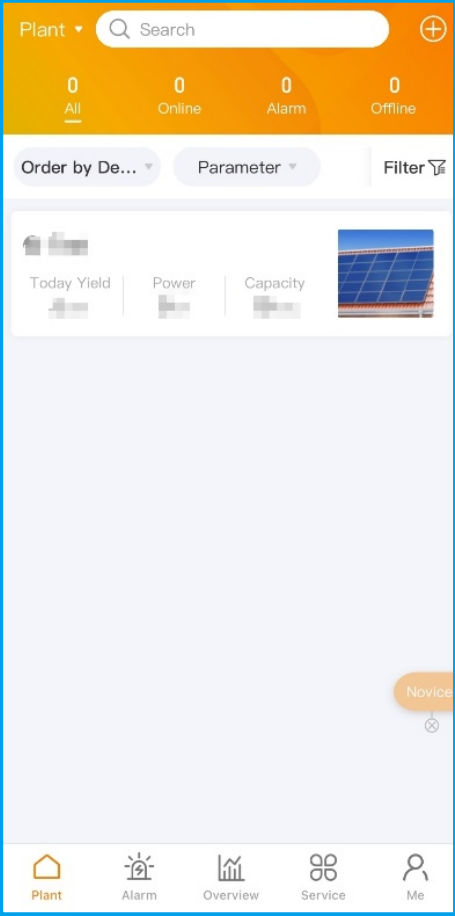
Plant Picture

+ (Add image icon)

More Settings ?

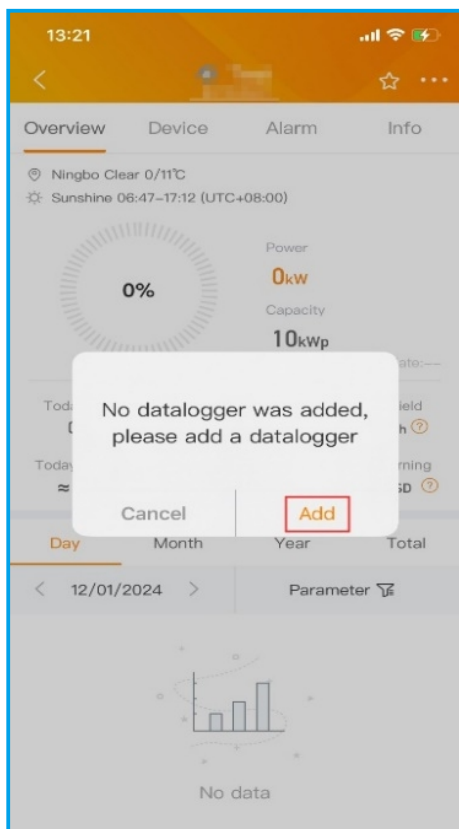
Previous **Create Plant**

Step 4: Plant creation is completed. It will automatically enter the APP homepage.

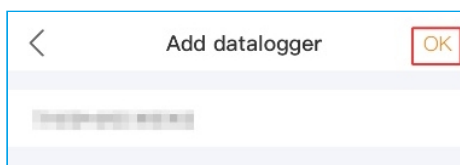


5 Bind the data loggers

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".

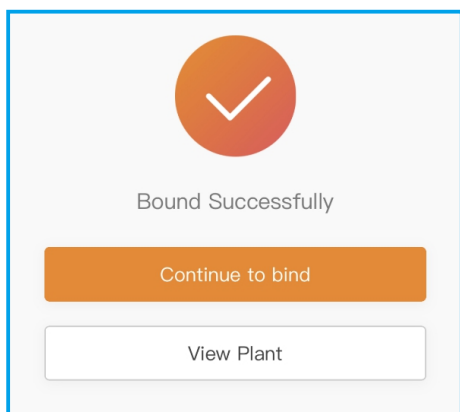


NOTE

Please make sure to input the logger serial number, not the inverter serial number.



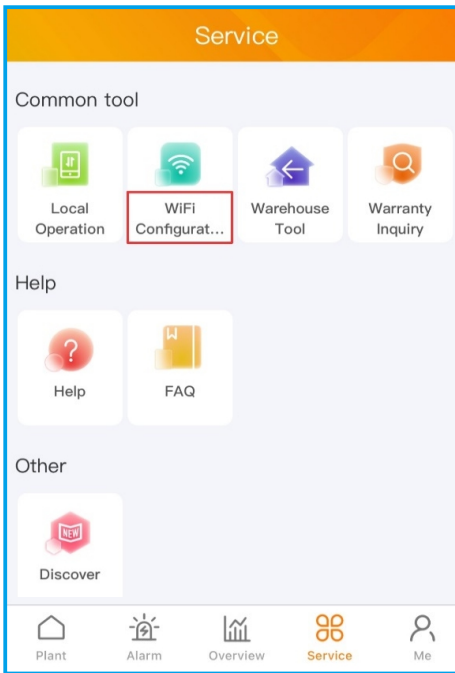
Step 3: Bound successfully. If the plant has multiple data loggers, please tap “Continue to bind” to bind other data loggers.



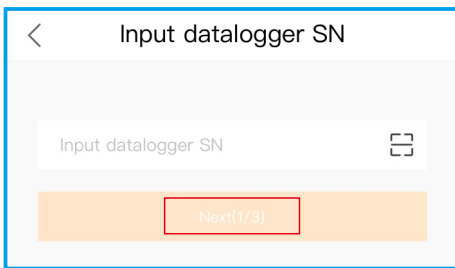
6 Network Configuration

6.1 WiFi Configuration by Bluetooth

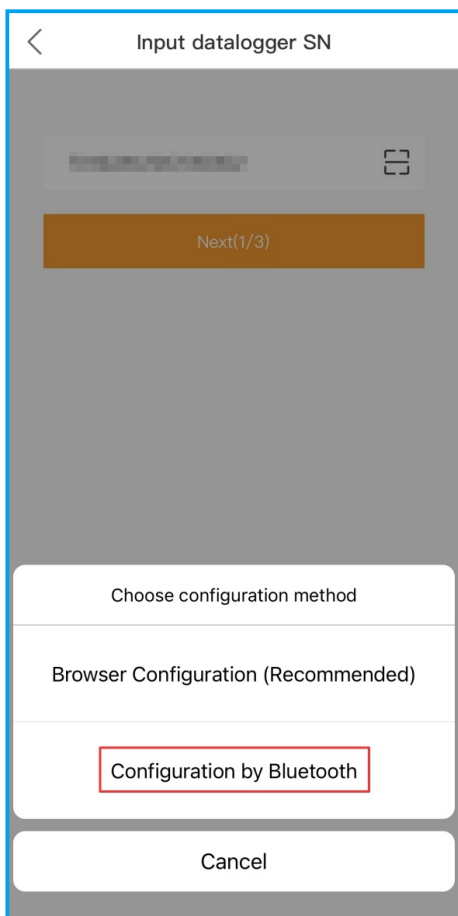
Step 1: Tap “Service” page, and then tap “WiFi Configuration” in the toolbar.



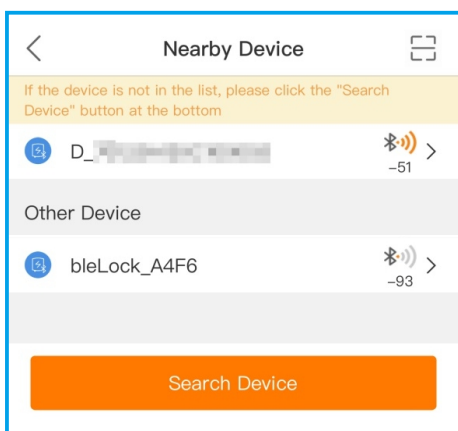
Step 2: Scan the QR code on the logger or manually enter the SN of the logger and then tap “Next”.



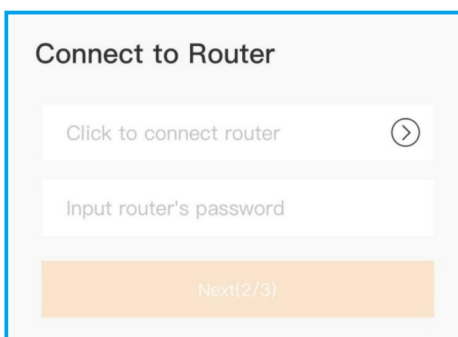
Step 3: Choose the configuration method, tap “Configuration by Bluetooth”.



Step 4: Select the Device called “D_serial number of the inverter”.



Step 5: Tap “>” 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 move to next step.

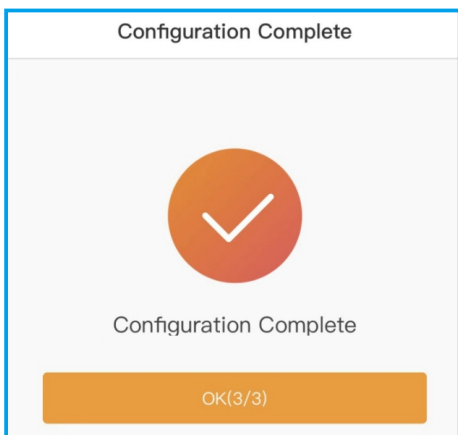


The screenshot shows a screen titled "Connect to Router". It features a text input field with the placeholder text "Click to connect router" and a right-pointing arrow icon. Below this is another text input field with the placeholder text "Input router's password". At the bottom of the screen is a large orange button labeled "Next(2/3)".



The screenshot shows the "WLAN" settings screen. At the top left is a back arrow and the word "Settings". At the top right is the title "WLAN". Below the title is a toggle switch for "WLAN" which is turned on. Underneath is a list of networks, with the first one checked and showing a lock icon, a Wi-Fi icon, and an information icon. Below this is a section titled "MY NETWORKS" with another network entry also showing a lock icon, a Wi-Fi icon, and an information icon.

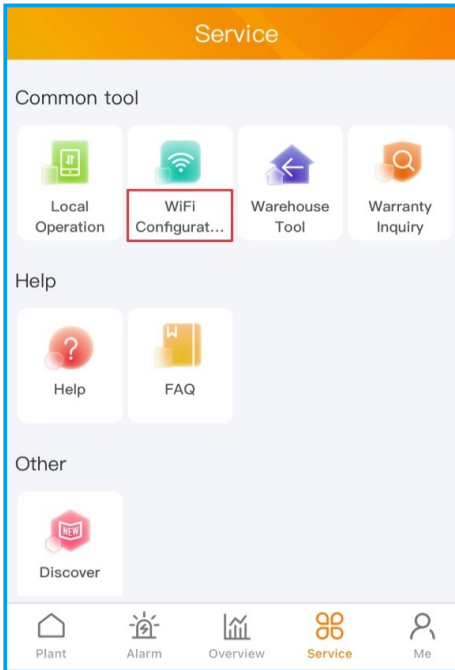
Step 6: Configuration is Completed.



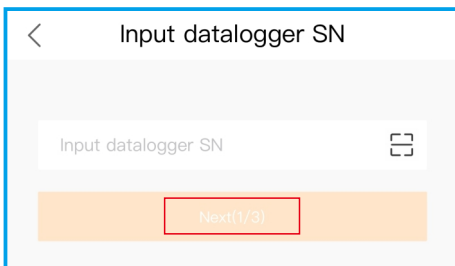
The screenshot shows a screen titled "Configuration Complete". It features a large orange circle with a white checkmark in the center. Below the circle is the text "Configuration Complete". At the bottom of the screen is a large orange button labeled "OK(3/3)".

6.2 WiFi Configuration by Browser

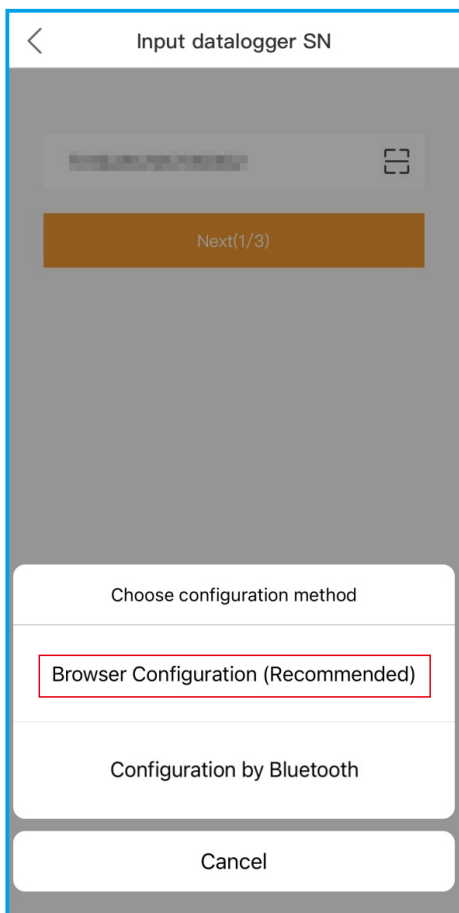
Step 1: Tap “Service” page, and then tap “WiFi Configuration” in the toolbar.



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 "Browser Configuration".



Step 4: Make sure that the green light flashes at intervals, then tap "[I'm sure it is flashing](#)".

< Configuration Tip



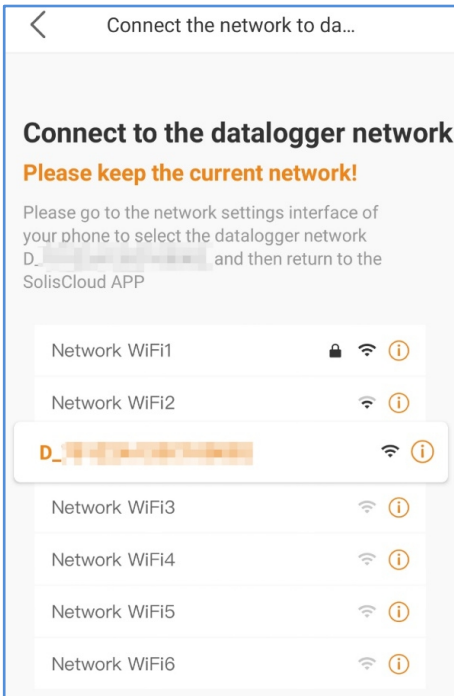
Please turn on the configuration mode of the datalogger

Plug the datalogger into the inverter and wait for the indicator light of the datalogger to be stable. That means, the red light on the datalogger keeps on, and the green light flashes every second, as shown in the figure above. Then you can start connecting to the WiFi signal of the logger, click to "[view the tutorial](#)":

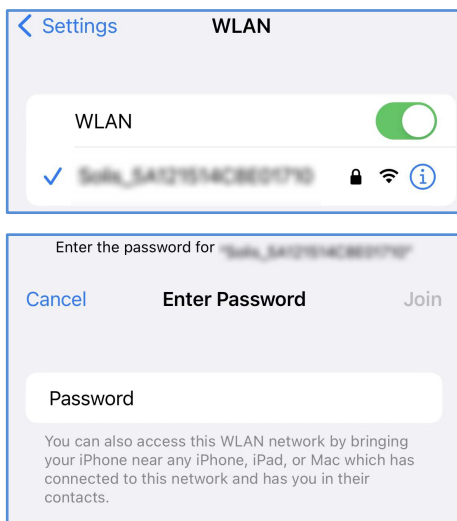
- (1) Make sure that the green light of the datalogger flashes at intervals. If the WiFi signal is not found, try re-plug the datalogger;
- (2) If the WiFi signal still can not be found, please long-press the datalogger for over 10 seconds to restore to the default setting, wait for the indicator light of the datalogger to be stable, and click to [view the tutorial](#);
- (3) If the datalogger is connected to the network, but the network needs to be changed, please follow the method 2
- (4) If the network is not found after multiple attempts of the above methods, please replace the datalogger.

[I'm sure it is flashing](#)

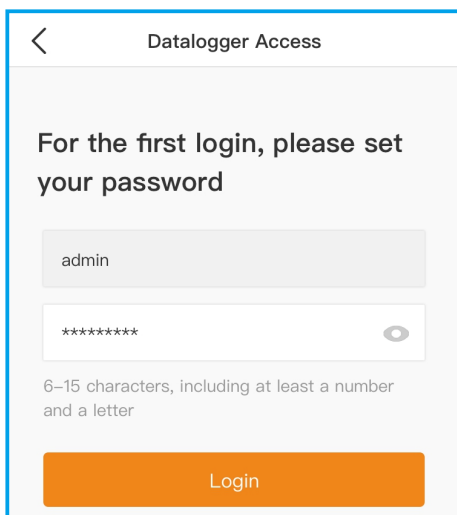
Step 5: Tap anywhere on the page to jump to the WLAN settings on your phone.



Step 6: Select the network named “**D_serial number of the data logger**”, enter the default password “**123456789**”, and then return to SolisCloud APP.



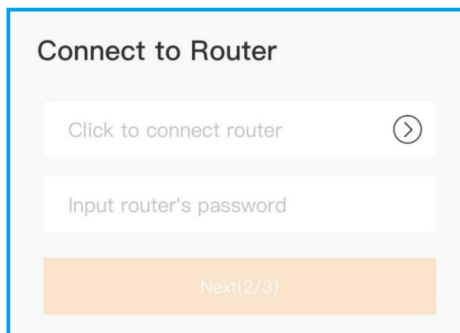
Step 7: If you are logging in for the first time, please set your password and tap “**Login**”.



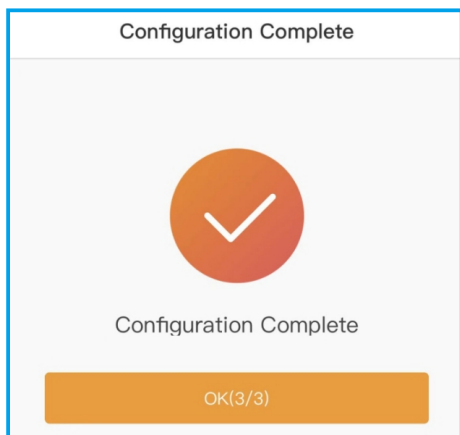
 **NOTE**

Please remember your password. The only solution to forgetting password is to reset the data logger. RESET means a factory setting, so please keep your data safe before the factory reset.

Step 8: Tap “>” and make sure your phone is connected to router WiFi. Then, switch back to the APP page to enter the WiFi password.



Step 9: Configuration is completed.



 **NOTE**

It takes about 1 minute for the data logger to connect to the network. If the green LED on the data logger turns solid, the configuration is successful. If the green LED keeps flashing after 1 minute, please try reconfiguring the network.

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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