

WL-Link Dongle V1.0

User Manual



The WL-Link is a communication dongle developed by LuxpowerTek, capable of uploading inverter data to the LuxCloud monitoring platform via Wi-Fi or LAN.

It is suitable for both residential and small commercial solar systems.

Before connecting the Dongle, you can download the monitoring app or visit the web portal to register a monitoring account, enabling remote system monitoring.

↓ Using LuxCloud APP

Step 1: Use your phone to scan one of the QR codes below to download the LuxCloud APP.



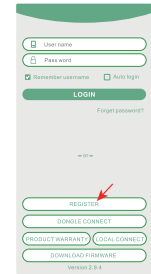
Android in Google Play



iOS in Apple APP Store

Step 2: Open the APP, tap the Register button, and complete the registration form.

You will need to enter an Installer Code, which you can obtain from your device supplier (found in the User Center of their LuxCloud account).

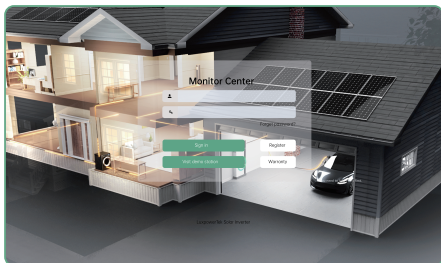


***Note:** The Installer Code is required for creating an installer-level account on the Luxpower monitoring Platform. It is used for managing user devices.

 **Using** LuxCloud Web Monitoring

 **Go** to <http://server.luxpowertek.com>.

 **Click Register**, fill in your details, and input the Installer Code. (Refer to instructions above.)



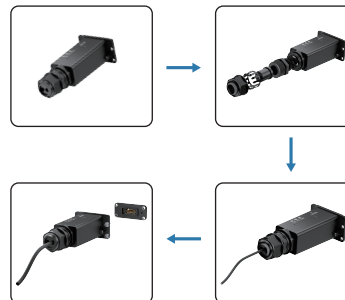
Connection Methods

1. LAN Connection

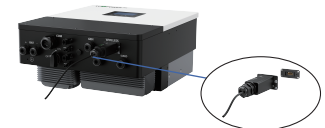
Step 1: Prepare a standard Ethernet cable.



Step 2: According to following steps to install the Ethernet cable integrated with WL-Link.



Step 3: Insert WL-Link into the Wi-Fi communication port

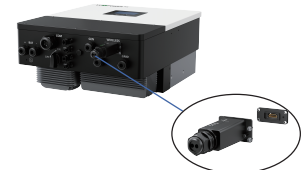


Step 4: Connect the other end to the **LAN port** on the router.



2. Wi-Fi Connection

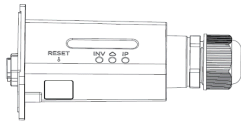
Step 1: Insert the WL-Link dongle into the inverter's communication port.



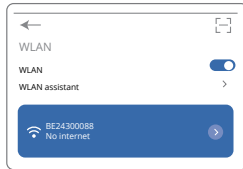
***Note:** The IP LED flashes slowly-once per second.

Wi-Fi Setup via Dongle Connect Mode

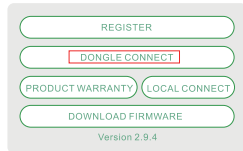
Step 1: Press and hold the RESET button on the dongle for about 5 seconds until the dongle enters Wi-Fi mode. (LED indicators will change -see diagram for reference)



Step 2: Open your phone's Wi-Fi settings and connect to the WL-Link network (it will include the dongle's SN number)

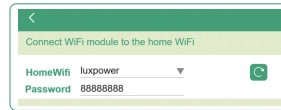


Step 3: Open the LuxCloud APP and tap Dongle Connect.



Step 4: Under HomeWiFi, select your home router's Wi-Fi name and enter its password.

Step 5: Tap HomeWiFi Connect. The WL-Link will automatically connect. Once connected, the three LED indicators on the dongle will light up.



***Note:** For stable communication, ensure your home Wi-Fi operates on 2.4 GHz and supports WPA2 protocol. 5 GHz is not supported.

If there are multiple inverters in the system, the dongle must be connected to each unit individually. Refer to the steps above to bind the SN and PIN of one inverter first. After logging into your monitoring account, go to the created plant and use the "Add Dongle" function to add the remaining dongles to the plant one by one.

***Note:** When using Wi-Fi mode, the dongle only supports 2.4 GHz Wi-Fi. Wi-Fi 6 is not currently supported.

LED Status Indicator

#	LED Name	Description
1	INV LED	Communication status between WL-Link and the inverter
2	Cloud LED	Communication status between WL-Link and the LuxCloud server
3	IP LED	IP assignment status (flashing: waiting for IP; solid: IP assigned)
4	RESET	Multi-function button (reset, mode switch, pairing)

Troubleshooting

Q How can I determine the current communication mode of the dongle (Ethernet or Wi-Fi)?

A 1. You can check the IP LED flashing frequency:

- In Ethernet mode, the IP LED flashes slowly (once per second).
- In Wi-Fi mode, the IP LED flashes rapidly (three times per second).

2. Alternatively, turn on your phone's Wi-Fi:

- If you can find the dongle's SN (serial number) as a Wi-Fi hotspot, the dongle is in Wi-Fi mode.
- If not, it is in Ethernet mode.

Q Why does the IP LED keep flashing continuously?

A In Ethernet mode: Please check the following:

- Whether the router has DHCP (automatic IP assignment) enabled
- Whether the router is properly connected to the network

- Whether the Ethernet cable exceeds the maximum communication distance of 20 meters
- Whether the cable used is a straight-through Ethernet cable

In Wi-Fi mode:

Please verify that the Wi-Fi network name (SSID) and password are entered correctly.

Q Why does the Cloud LED keep flashing continuously?

- A**
- Please check whether the WL-Link dongle has been added to the plant in your monitoring account.
 - Ensure the router is properly connected to the internet.
 - If using Ethernet, check whether the cable exceeds the maximum communication distance of 20 meters, and confirm the use of a straight-through Ethernet cable.

In Wi-Fi mode:

- Make sure the Wi-Fi network name (SSID) and password are correct.
- Confirm that the dongle has been successfully added to the plant.

Q Why does the INV LED keep flashing continuously?

A Please check the connection between the WL-Link dongle and the inverter, and ensure the connector is fully and securely inserted.



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