



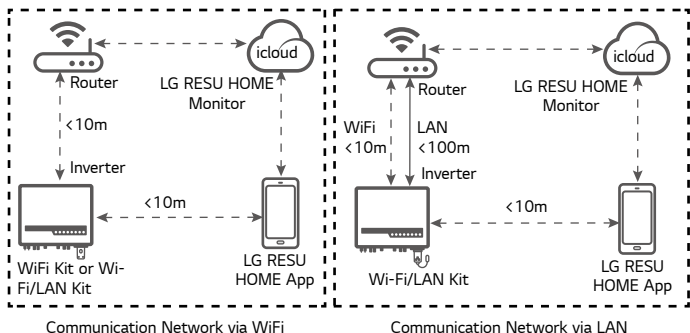
Quick Installation Guide

Communication Module

(Wi-Fi/LAN Kit & WiFi Kit)

V1.3-2022-07-08

01 Applications



02 Installation

Packing List



WiFi Kit x 1

OR



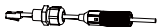
Wi-Fi/LAN Kit x 1



Unlock Tool x 1



User Manual x 1



Wire Harness x 1^{*1}



5-pin USB adapter
x 1^{*2}



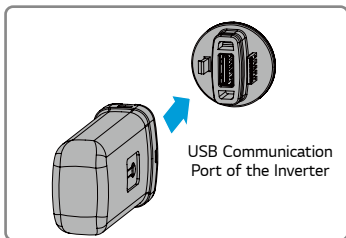
Screw x 4^{*2}

*1: For Wi-Fi/LAN Kit only.

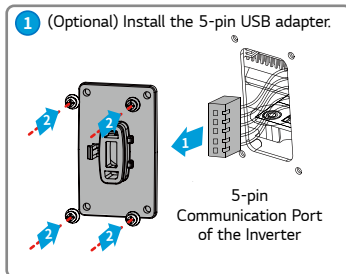
*2: N=Quantity depends on the Wi-Fi/LAN Kit configuration.

Installing the module

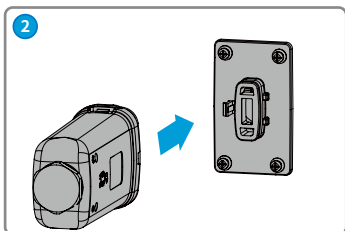
WiFi Kit



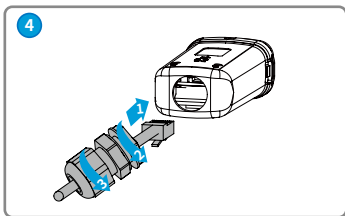
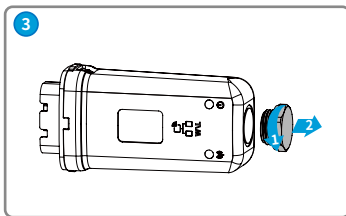
Wi-Fi/LAN Kit



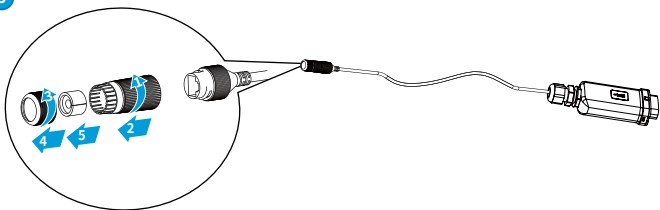
Step 2 for WiFi function only.



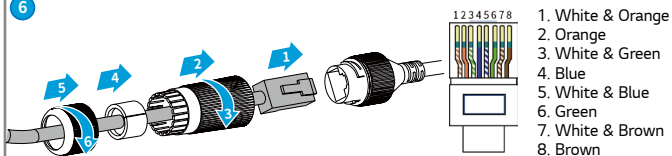
Step 3 - Step7 for LAN function only.



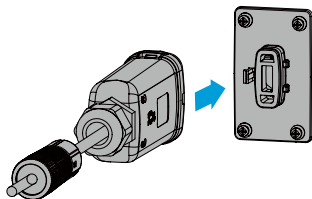
5



6



7





03 Power On

Step 1 Power on the inverter.



Step 2 Power on the router.

Step 3 Check the indicators on the Kit and the inverter to confirm the communication status of the kit.

Wi-Fi/LAN Kit

Indicator	Color	Status	Description
 Power	Green	ON	The Wi-Fi/LAN Kit is powered on.
		OFF	The Wi-Fi/LAN Kit is restarting or not powered on.
 COM	Blue	ON	<ul style="list-style-type: none">The WiFi communication or LAN communication works properly.The LAN communication is abnormal, but the AP hotspot is connected.
		OFF	<ul style="list-style-type: none">The Wi-Fi/LAN Kit is restarting or not powered on.The WiFi communication is abnormal.The LAN communication is abnormal, and the AP hotspot is not connected.

WiFi Kit

Indicator	Color	Status	Description
 Power	Green	ON	The WiFi Kit is powered on.
		OFF	The WiFi Kit is restarting or not powered on.
 COM	Blue	ON	The WiFi AP hotspot is connected.
		OFF	<ul style="list-style-type: none">Improper communication on WiFi Kit.The kit is restarting.

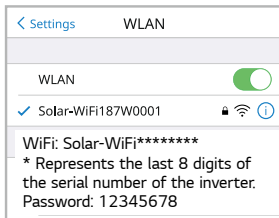
Commissioning via LG RESU HOME App

Step 1 Download and install the LG RESU HOME App.

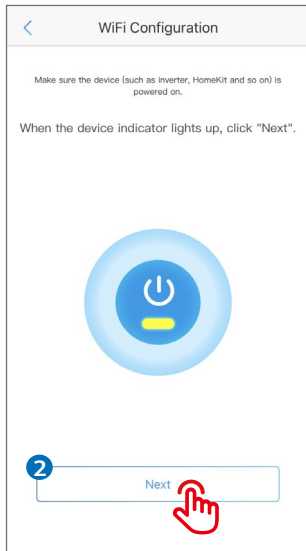
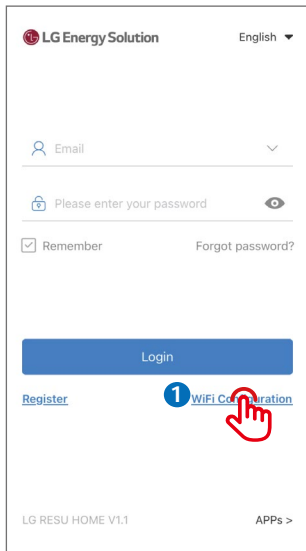


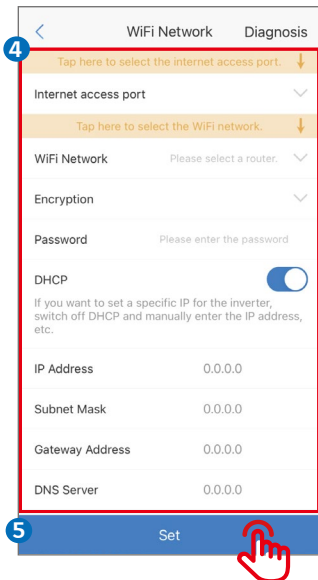
LG RESU HOME App

Step 2 Connect the app and the inverter.



Step 3 Network Commissioning of the Kit.





Note: After setting the WiFi Network, the Wi-Fi/LAN Kit will restart automatically and the indicator will be off temporarily. The indicator will be on after restarting.

No.	Parameters	Description
1	Internet access port	For Wi-Fi/LAN Kit only. Select Wi-Fi or LAN .
2	WiFi Network	For WiFi mode only. Set the parameters based on the router network information.
3	Encryption	
4	Password	
5	DHCP	
6	IP Address	• Do not configure the parameters when DHCP is enabled. • Configure the parameters according to the router or switch information when DHCP is disabled.
7	Subnet Mask	
8	Gateway Address	
9	DNS Server	

Commissioning via Web

Network Commissioning of Wi-Fi/LAN Kit

1 Log in to 10.10.100.253
Your password will be sent unencrypted.

2 User Name **admin**

3 Password **admin**

4 Log In

Mode Settings
5 AP Settings
5 STA Settings
Device Management

6 STA Interface Parameters

AP's SSID

7 MAC Address (Optional)

Security Mode

WPA Algorithms

Pass Phrase

8 Submit

9 WAN Connection Type

WAN Connection Type

Static Mode

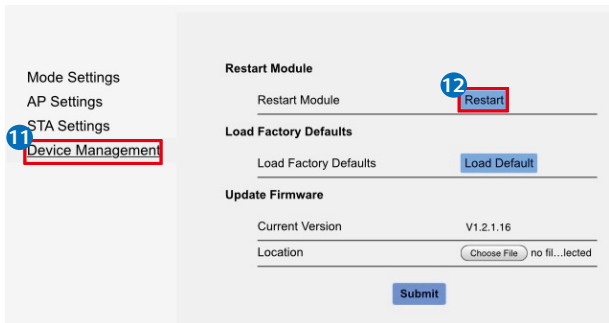
IP Address

Subnet Mask

Gateway

Dns

10 Submit



Note: The indicator will be off temporarily when the Wi-Fi/LAN Kit is restarting and be on again after restarting.

No.	Parameters	Description
1	AP'S SSID	For WiFi mode only. Click Search to select the router and click Apply .
2	Security Mode	For WiFi mode only. Set the parameters based on the router network information.
3	WPA Algorithms	
4	Pass phrase	
5	WAN Connection Type	<ul style="list-style-type: none"> Select DHCP(Auto config) when the router is in dynamic IP mode. Select Static IP when a switch is used or when the router is in static IP mode
6	IP Address	<ul style="list-style-type: none"> Do not configure the parameters when WAN Connection Type is DHCP(Auto config). Configure the parameters according to the router or switch information when WAN Connection Type is Static IP.
7	Subnet Mask	
8	Gateway Address	
9	DNS Server	

Network Commissioning of Wi-Fi Kit

1 Log in to 10.10.100.253
Your password will be sent unencrypted.

2 User Name **admin**

3 Password **admin**

4 Log In

Wizard

Advanced Management

Device information

Firmware version	V1.1.2.1
MAC address	*****
Wireless AP mode	Enable
SSID	Solar-WiFi123W1234
IP address	10.10.100.253
Wireless STA mode	Enable
Router SSID	TP-LINK_Network
Encryption method	WPA2PSK
Encryption algorithm	AES

Cannot join the network, maybe caused by:

router doesn't exist, or signal is too weak, or password is incorrect.

★Help: Wizard will help you to complete setting within one minute.

5 Start Setup

Please select your current wireless network:

6

SSID	AUTH/ENCRY	RSSI	Channel
<input type="radio"/> Solar-WiFi205G0484	*****	100	6
<input checked="" type="radio"/> TP-LINK_Network	*****	100	6
<input type="radio"/> Solar-WiFi219W0020	*****	100	6
<input type="radio"/> Solar-WiFi203W0661	*****	98	1
<input type="radio"/> Solar-WiFi181W1234	*****	98	6
<input type="radio"/> CODING-LINK	*****	88	1

Refresh

★Note: When RSSI of the selected WiFi network is lower than 30%, the connection may be unstable, please select other available network or shorten the distance between the device and router.

If your wireless router does not broadcast SSID, please click 'Next' and add a wireless network manually.

Back

7 Next

Add wireless network manually:

Network name (SSID)	TP-LINK_Network
Encryption method	WPA2-PSK
Encryption algorithm	AES

Please enter the wireless network password:

Password	••••••••
	<input type="checkbox"/> Show psk

★**Note:** case sensitive for SSID and Password.

Please make sure all parameters of wireless network are matched with router, including password.

Back

Next

Save success!

The current configuration will take effect after restart.

If you still need to configure the other pages of information, please go to complete your required configuration.

Configuration is complete, you can go to the Management page, click on the restart device "OK" button.

Confirm to complete ?

Back

Complete

No.	Parameters	Description
1	Network name (SSID)	Set the parameters based on the router network information.
2	Encryption method	
3	Encryption algorithm	
4	Password	

(Optional) Continue the following steps when the router is in static IP mode.

Wizard
12 Advanced Management

Access point setting

Network name(SSID)

Encryption mode

Encryption algorithm

Password(8 to 63 characters)

★Note:config the device's parameters under the access point mode. Save

DHCP setting for STA

IPDHCP Mode

IP address

Subnet mask

Gateway address

DNS server address

★Note:After changing the setting,the device must be restarted. 15 Save

Saved Successfully!

Configurations will take effect after restart.
After restart, you will need to re-login the configuration interface for other settings, so it is recommended to restart after completing all settings.
Please click [Restart] to restart now, or click [Back] to continue setting.
You can restart after all configuration.

16 Restart Back

No.	Parameters	Description
1	IPDHCP Mode	Select STATIC .
2	IP Address	Set the parameters of the Wi-Fi Kit based on the router network information.
3	Subnet Mask	
4	Gateway Address	
5	DNS Server	

05 Password Setting

Log in using the initial password for the first time and change the password as soon as possible. To ensure account security, you are advised to change the password periodically and keep the new password in mind.

Change the password of the Wi-Fi/LAN Kit.

1	Mode Settings AP Settings STA Settings Device Management	Wireless Network Network Mode: 11b/g/n mixed mode Network Name(SSID): Solar-WiFi203W001 Hide <input type="checkbox"/> BSSID: 34:EA:E7:D4:6A:88 Frequency (Channel): Auto Submit Reset Solar-WiFi203W0013 Security Mode: WPA2-PSK WPA WPA Algorithms: <input type="radio"/> TKIP <input checked="" type="radio"/> AES <input type="radio"/> TKIP/AES Key: <input type="text"/> 3 Submit Reset
---	--	---

Mode Settings AP Settings STA Settings Device Management	Set successfully, restart to use new setting. Restart button in Device Management
---	--

Mode Settings AP Settings STA Settings Device Management	Restart Module Restart Module: 5 Restart Load Factory Defaults Load Factory Defaults: Load Default
---	--

Note: The indicator will be off temporarily when the Wi-Fi/LAN Kit is restarting and be on again after restarting.

Reconnect WiFi after resetting the Wi-Fi/LAN Kit.

Change the password of the WiFi Kit.

Wizard	Access point setting
1 Advanced	Network name (SSID) <input type="text" value="Network name"/>
Management	Encryption mod <input type="text" value="WPA/WPA2-PSK"/>
	Encryption algorithm <input type="text" value="AES"/>
	Password (8 to 63 characters) 2 <input type="text"/>
	★Note: config the device's parameter under the access point mode.
	DHCP setting for STA 3 <input type="button" value="Save"/>
	IP DHCP Mode <input type="text" value="DHCP"/>
	IP address <input type="text" value="192.168.204.149"/>
	Subnet mask <input type="text" value="255.255.255.0"/>
	Gateway address <input type="text" value="192.168.204.254"/>
	DNS server address <input type="text" value="80.59.16.0"/>
	★Note: After changing the setting, the device must be restarted.
	<input type="button" value="Save"/>

Wizard	Saved Successfully!
Advanced	Configurations will take effect after restart.
Management	After restart, you will need to re-login the configuration interface for other settings, so it is recommended to restart after completing all settings.
	Please click [Restart] to restart now, or click [Back] to continue setting.
	You can restart after all configuration.
	4 <input type="button" value="Restart"/> <input type="button" value="Back"/>

Restart/Reload Default success!

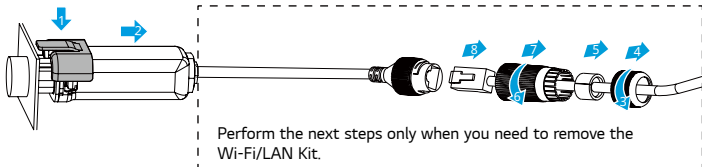
06 Device Replacement

Step 1 Prepare the new kit before replacing the kit.

Step 2 Remove the kit using the Unlock Tool.

Step 3 Install the new the kit.

Step 4 Refer to the kit Quick Installation Guide to configure the kit.





No.	Problem	Solutions
1	Cannot find Solar-WiFi**	<ol style="list-style-type: none"> 1. Make sure that the inverter is powered on and the Wi-Fi/LAN Kit is connected properly. 2. Make sure that the smart device is within the communication range of the Wi-Fi/LAN Kit. 3. Restart the inverter.
2	Unable to connect to Solar-WiFi**	<ol style="list-style-type: none"> 1. Enter the password: 12345678. 2. Make sure that no other smart device is connected to Solar-WiFi**. 3. Restart the inverter and reconnect Solar-WiFi**. 4. Make sure the password is correct.
3	Cannot log in to 10.10.100.253	<ol style="list-style-type: none"> 1. Switch browsers like Google Chrome, Firefox, IE, Safari. 2. Restart the inverter and reconnect the WiFi.
4	Cannot find router SSID	<ol style="list-style-type: none"> 1. Put the router nearer to the inverter. Or add some WiFi relay devices. 2. Check if the channel number of router is higher than 13. If yes, modify it into a lower number at router configuration page.
5	WiFi LED indicator blinks twice continuously with all configuration steps done	<ol style="list-style-type: none"> 1. Restart the inverter. 2. Check if the SSID, encryption method, encryption algorithm and password on WiFi configuration page is the same with that of Wireless Router, if it is different, please modify it. 3. Restart Wireless Router. 4. Mover Wireless Router closer to the inverter or use a wireless repeater to enhance WiFi signal.
6	WiFi LED indicator blinks four times continuously when all configuration steps done	<ol style="list-style-type: none"> 1. Connect smart device to network and access to LG RESU HOME App to check if the inverter is online. 2. Restart Wireless Router and the inverter.


Model		Wi-Fi/LAN Kit	WiFi Kit
General Data	Input Voltage	5V	
	Power Consumption	≤2W	
	Dimension(L x W x D)	102 x 49 x 32 mm	96 x 49 x 32 mm
	Operating temperature	-30 ~ 60°C	
	Operating Humidity	0 ~ 100% RH (No Condensation)	
	Operating Altitude	<4000m	
	Ingress Protection Rating	IP65	
Ethernet	Port	RJ45	-
	Extension Cable of LAN	0.5m	-
	Communication	LAN or WiFi	WiFi
	Transmission Rate	UART: 115200bps Ethernet: 10M/100M	UART: 9600bps
	Max. Network Cable Transmission Distance	100m	-
Software Data	Supported Device	Router or Switch	Router
	Configuration	App or Web	
	Language	English	
	Working Mode	AP/STA/AP+STA	
	Supported Standards	802.11 b/g/n	
	Frequency Range	2.412GHz-2.472GHz	

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