LG Wi-Fi/LAN Kit Communication Module Installation Guide

Wi-Fi/LAN Kit Communication Module

**Quick Installation Guide
Communication Module
(Wi-Fi/LAN Kit & WiFi Kit)
V1.3-2022-07-08**

Contents

Applications

Communication Network via WiFi   Communication Network via LAN
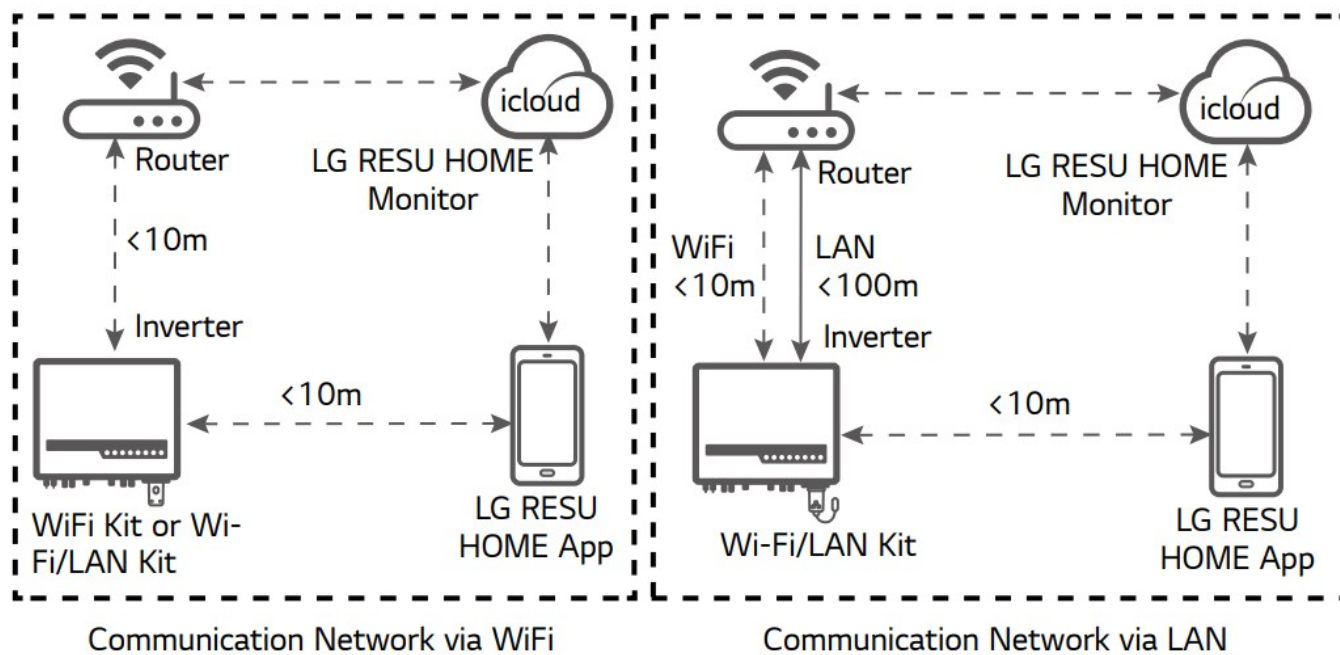
Installation

Packing List
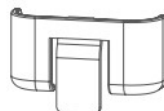
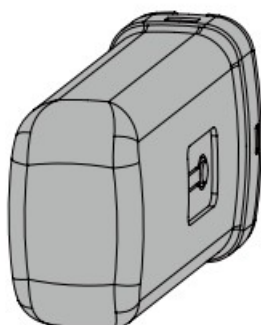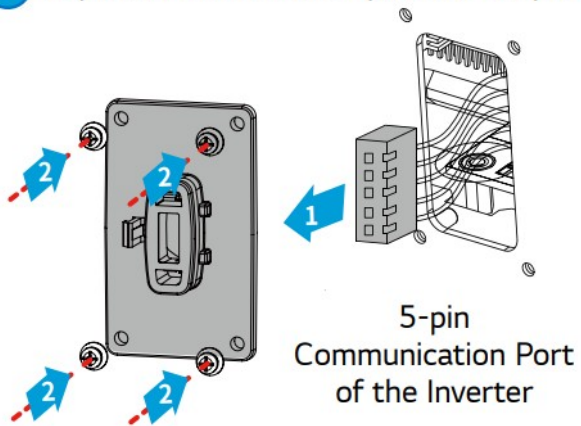|			
WiFi Kit x 1 OR Wi-Fi/LAN Kit x 1	Unlock Tool x 1	User Manual x 1
Wire Harness x 1*1	5-pin USB adapter x 1*2	Screw x 4*2

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

USB Communication Port of the Inverter

Wi-Fi/LAN Kit

① (Optional) Install the 5-pin USB adapter.

5-pin
Communication Port
of the Inverter

Step 2 for WiFi function only.

②
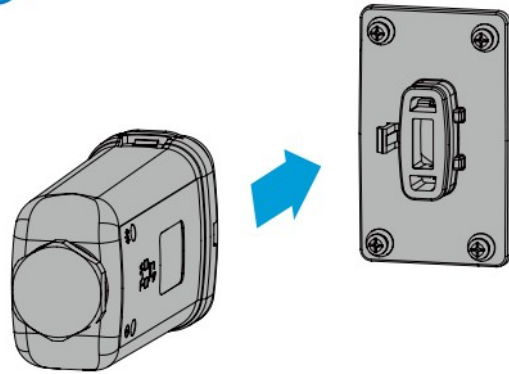
Step 3 – Step7 for LAN function only.

③

④

1. White & Orange
2. Orange
3. White & Green
4. Blue
5. White & Blue
6. Green
7. White & Brown
8. Brown
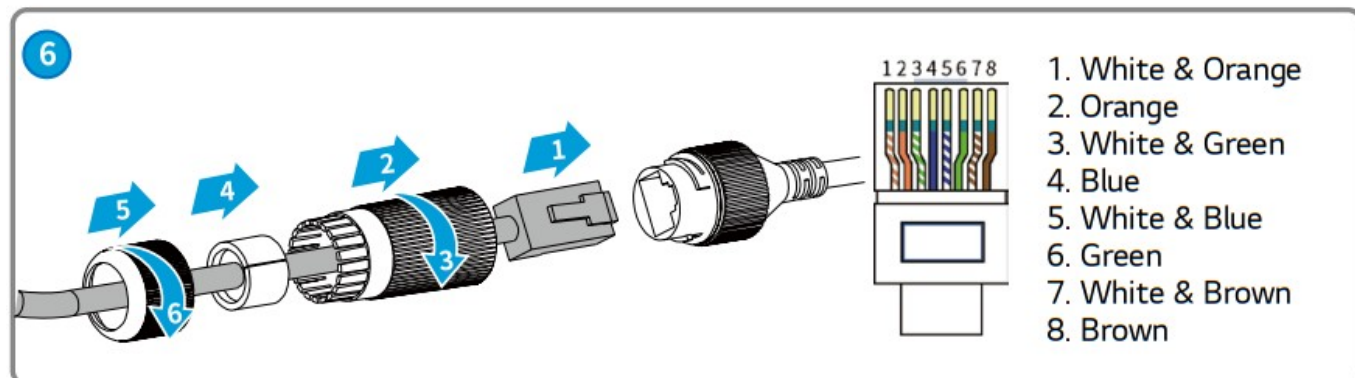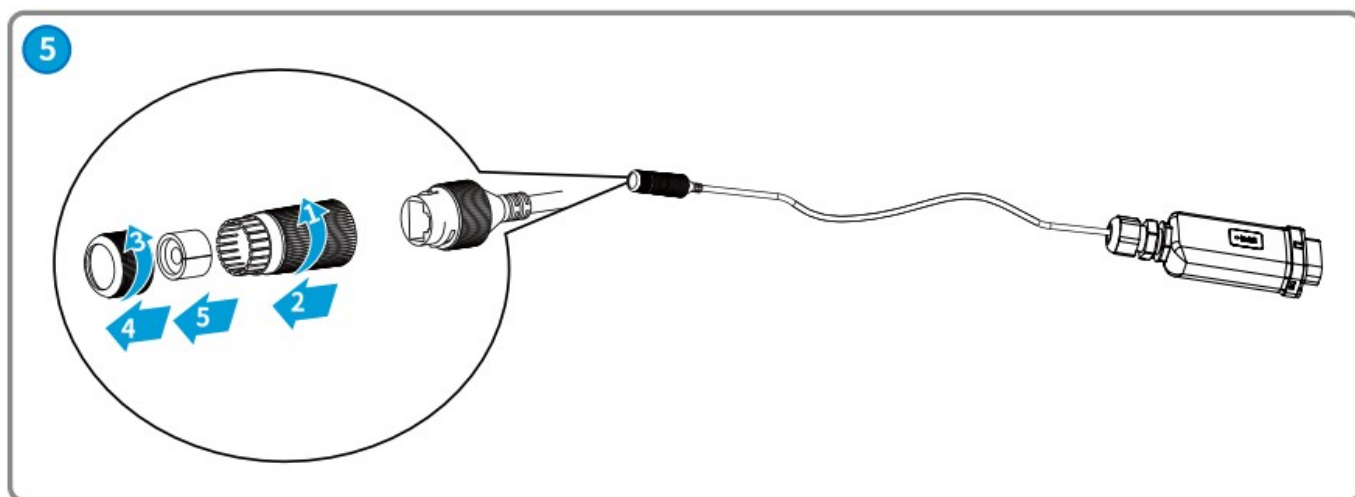
Power On

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

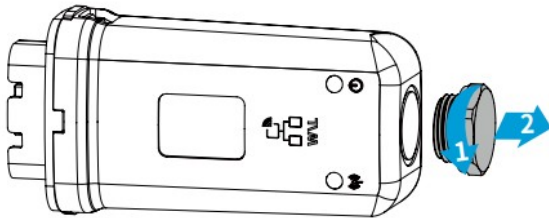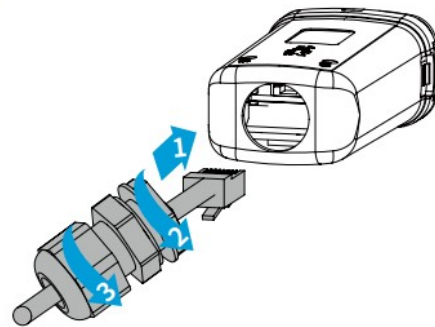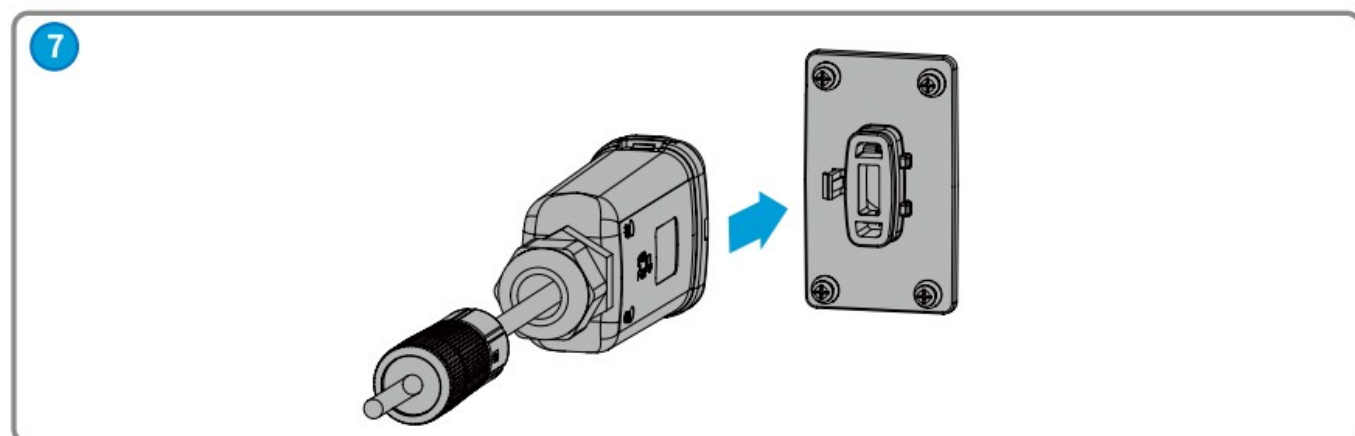| Indicator	Color	Status	Description
Power	Green	ON	The Wi-Fi/LAN Kit is powered on.
		OFF	The Wi-Fi/LAN Kit is restarting or not powered on.
COM	Blue	ON	The WiFi communication or LAN communication works properly The LAN communication is abnormal, but the AP hotspot is connected.
		OFF	The Wi-Fi/LAN 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	Improper communication on WiFi Kit. The kit is restarting.

Commissioning

Commissioning via LG RESU HOME App
Step 1 Download and install the LG RESU HOME App.

LG RESU HOME App
https://www.lgresuhomemonitor.com/home/AppDownload

Step 2 Connect the app and the inverter.

WiFi: Solar-WiFi********
* Represents the last 8 digits of the serial number of the inverter.
Password: 12345678
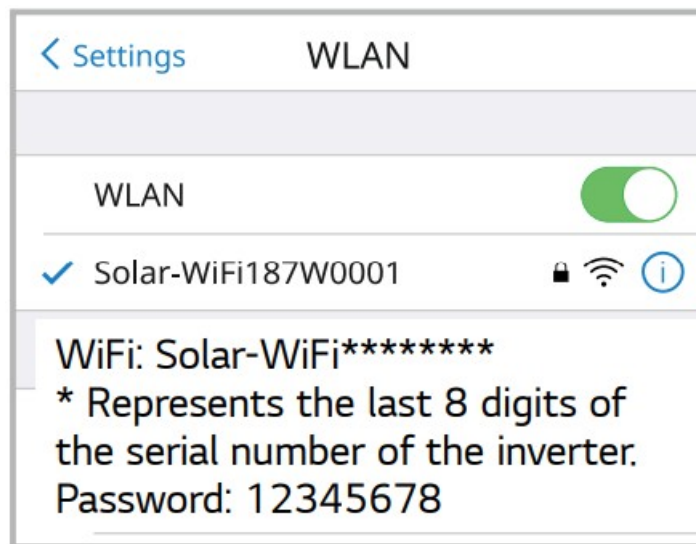
Step 3 Network Commissioning of the Kit.

LG Energy Solution — English ▾

Email

Please enter your password

☑ Remember   Forgot password?

Login

Register   ① WiFi Configuration

LG RESU HOME V1.1   APPs >

‹ WiFi Configuration

Make sure the device (such as inverter, HomeKit and so on) is powered on.

When the device indicator lights up, click "Next".

② Next
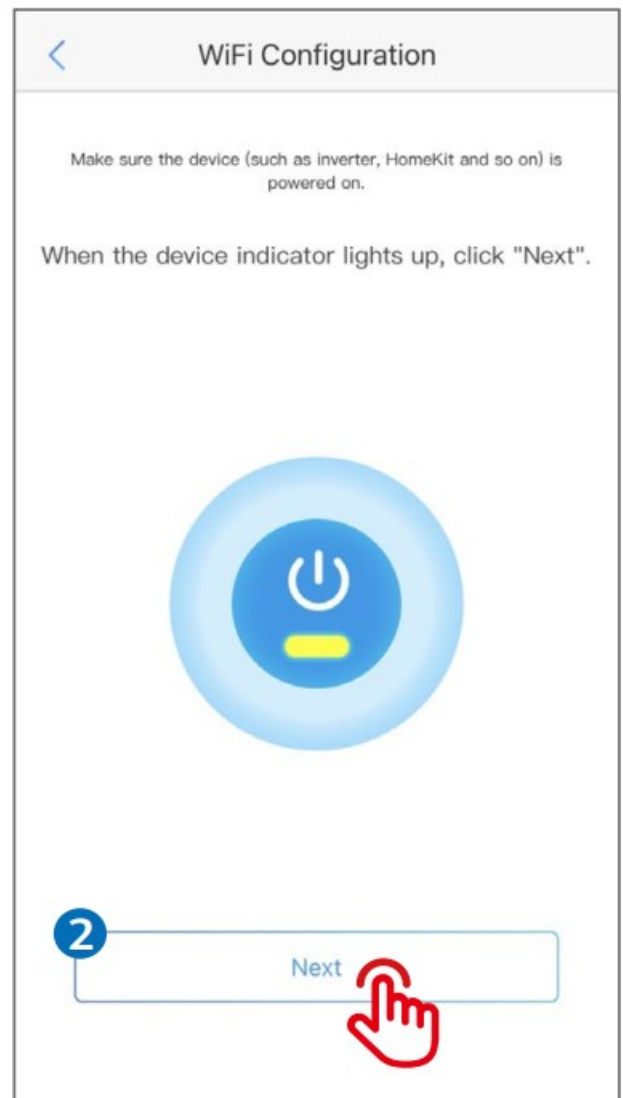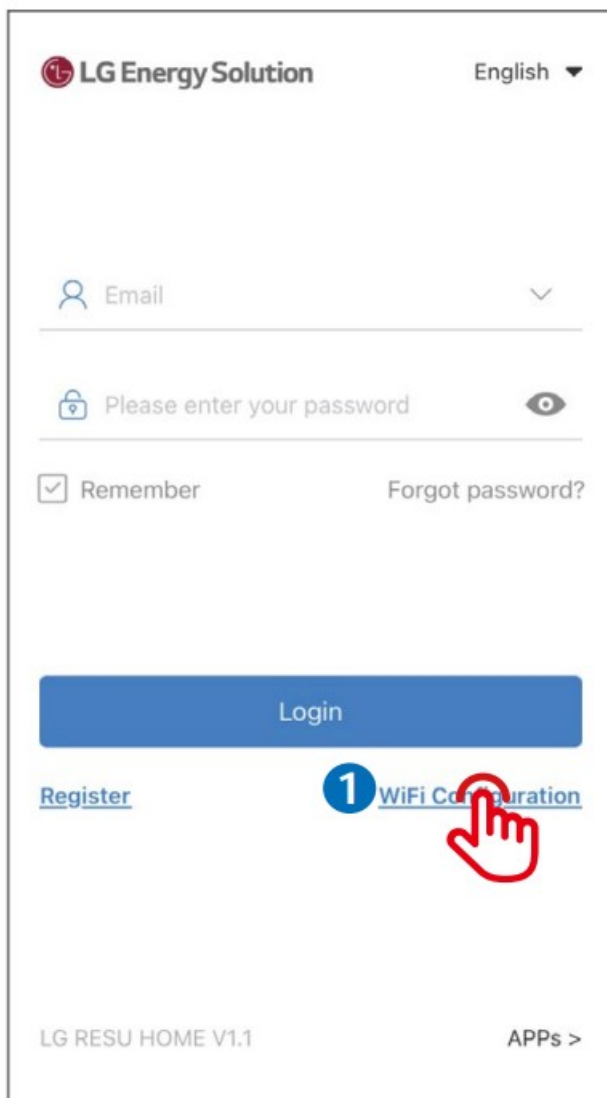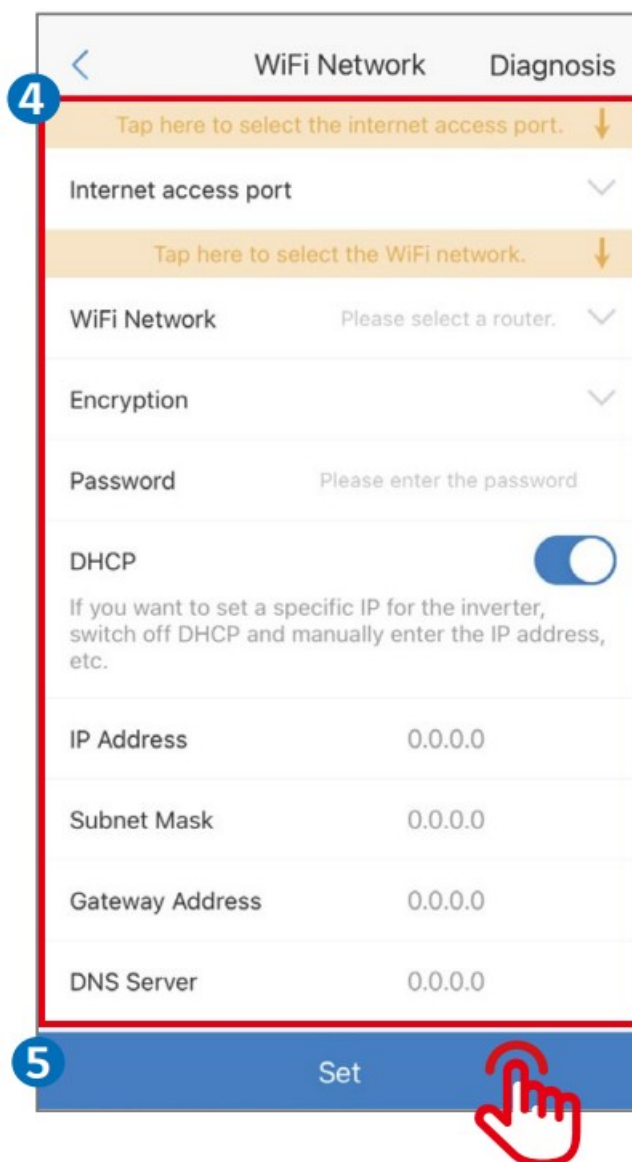
Note: After setting the WiFi Network, the Wi-Fi/LAN Kit will restart automatically and the indicator will be off temporarily. The indicator will be on after restarting.

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	Enable DHCP when the router is in dynamic IP mode. Disable DHCP when a switch is used or when the router is in static IP mode.
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 Cancel Log In

Mode Settings
AP Settings
5 STA Settings
Device Management

STA Interface Parameters

6 AP's SSID — WiFi_Burn-in Search

MAC Address (Optional)

7 Security Mode — WPA2PSK
WPA Algorithms — AES
Pass Phrase — •••••••••••

8 Submit Reset

9 **WAN Connection Type**

WAN Connection Type — Static IP

Static Mode

IP Address — 192.168.10.10
Subnet Mask — 255.255.255.0
Gateway — 192.168.10.11
Dns — 192.168.10.11

10 Submit Reset

Mode Settings
AP Settings
STA Settings
11 Device Management

Restart Module

Restart Module **12** Restart

Load Factory Defaults

Load Factory Defaults Load Default

Update Firmware

Current Version V1.2.1.16

Location Choose File no fil...lected

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	•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	•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	

Please select your current wireless network:

6

SSID	AUTH/ENCRY	RSSI	Channel
Solar-WiFi205G0484	************	100	6
TP-LINK_Network	************	100	6
Solar-WiFi219W0020	************	100	6
Solar-WiFi203W0661	************	98	1
Solar-WiFi181W1234	************	98	6
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.

7

Back　　Next

Add wireless network manually:

Network name (SSID)   `TP-LINK_Network`

(8) Encryption method   `WPA2-PSK ▾`

Encryption algorithm   `AES ▾`

Please enter the wireless network password:

Password   **(9)** `••••••••`

☐ Show psk

★**Note:** case sensitive for SSID and Password.
  Please make sure all parameters of wireless network are matched with router, including password.

Back   **(10)** **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   **(11)** **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.

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	

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.

Wireless Network

Network Mode	11b/g/n mixed mode
Network Name(SSID)	Solar-WiFi203W0(Hide
BSSID	34:EA:E7:D4:6A:88
Frequency (Channel)	Auto

Submit Reset

Solar-WiFi203W0013

Security Mode	WPA2-PSK

WPA

WPA Algorithms TKIPAES   ○TKIP ●AES ○

Key

Submit Reset

Set successfully, restart to use new setting.

Restart button in Device Management

Restart Module

Restart Module   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.

Access point setting

Wizard	
1 Advanced	
Management	

Access point setting

Network name (SSID)   `Network name`

Encryption mod   `WPA/WPA2-PSK ▼`

Encryption algorithm   `AES ▼`

2 Password (8 to 63 characters)   `_____`

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

3 Save

DHCP setting for STA

IP DHCP Mode   `DHCP ▼`

IP address   `192.168.204.149`

Subnet mask   `255.255.255.0`

Gateway address   `192.168.204.254`

DNS server address   `80.59.16.0`

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

Save

Saved Successfully!

Wizard
Advanced
Management

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.
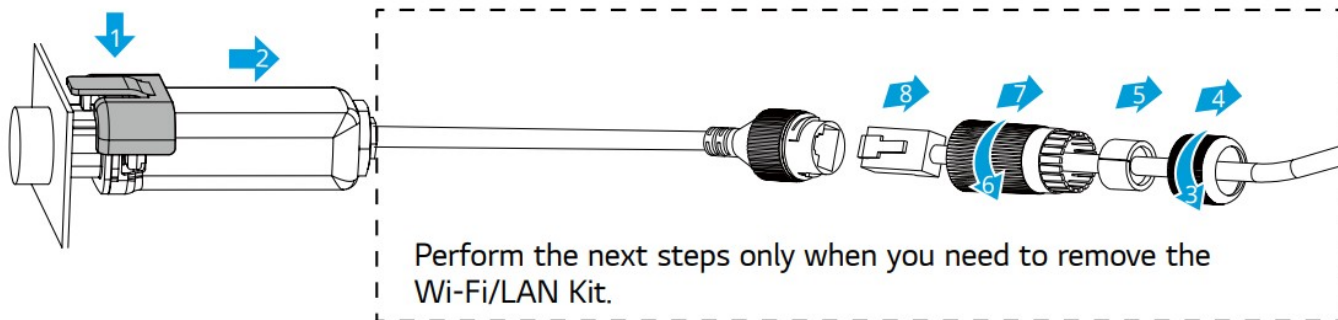
4 Restart   Back

Restart/Reload Default success!

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.

Perform the next steps only when you need to remove the Wi-Fi/LAN Kit.

Troubleshooting

No.	Problem	Solutions
1	Cannot find Solar-WiFi**	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**	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	1.Switch browsers like Google Chrome, Firefox, IE, Safari. 2.Restart the inverter and reconnect the WiFi.
4	Cannot find router SSID	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	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	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.

Technical Data

Model		Wi-Fi/LAN Kit	WiFi Kit
General Data	Input Voltage	5V	
	Power Consumption	52W	
	Dimension(L x W x D)	102 x 49 x 32 mm	l 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	R145	–
	Extension Cable of LAN	0.5m	–
	Communication	LAN or WiFi	WiFi
	Transmission Rate	UART: 1 Ethernet:15200bps 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	

340-00619-03

Documents / Resources

	LG Wi-Fi/LAN Kit Communication Module [pdf] Installation Guide Wi-Fi LAN Kit, WiFi Kit, Wi-Fi LAN Kit Communication Module, Communication Module, Module

References

- 🌐 **LG ESS Battery USA**