Wi-Fi Module Configuration

4.2024

GoodWe Technologies Co., Ltd

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01 Introduction

1.1 Wi-Fi Module introduction

GoodWe Wi-Fi modules:

1. Wi-Fi 1.0: Wi-Fi/LAN Kit & Wi-Fi Kit & Wi-Fi Box (WiFi signal, Solarwifi XXXXX)
2. Wi-Fi 2.0: WiFi/LAN Kit-20 & WiFi Kit-20 (bluetooth signal, WLA/WFAXXXXX)

The two types of module are different in configuration.

- Wi-Fi 1.0 can be configured by **SEMS, Web**
  - *Web configuration is available for Wi-Fi Kit and Wi-Fi Box, not for Wi-Fi/LAN Kit.
  - *Wi-Fi/LAN kit can only be configured by SEMS.
  - *Mode switch of LAN/Wi-Fi module can only be configured on SEMS. Web switch is not supported.

- Wi-Fi 2.0 can only be configured by **SolarGo.**

1.2 Appearance _Wi-Fi 1.0



Wi-Fi/LAN kit

Wi-Fi kit

Wi-Fi box

1.3 Appearance_ Wi-Fi 2.0

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Component:

- WIFI Kit-20 ： Wi-Fi + Bluetooth
- WIFI/LAN Kit-20： Wi-Fi+LAN+Bluetooth



Wi-Fi/LAN Kit-20



Wi-Fi Kit-20

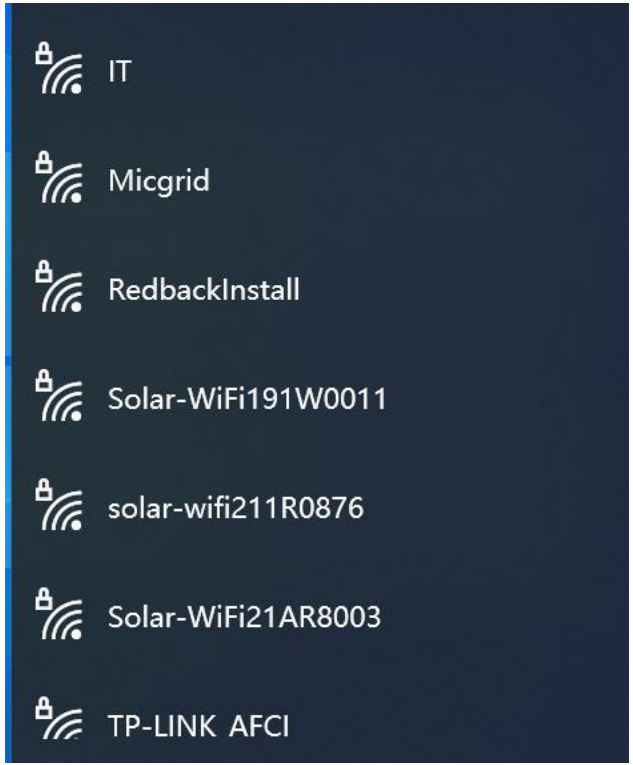


02 Wi-Fi Configuration- Wi-Fi 1.0

2.1 Configure Wi-Fi by Web

Precondition:

- The inverter is switched on.
- The Wi-Fi router is on.
- A laptop is ready.



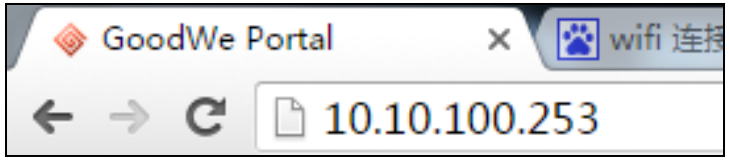
1. Connect laptop to “Solar-WiFi*”
   Password: 12345678

(* means the last 8 characters of the inverter serial number)

Note: Wi-Fi/LAN Kit does not support configure via Web.
Configuring parameters via the web applies to the Wi-Fi Kit and Wi-Fi Box.

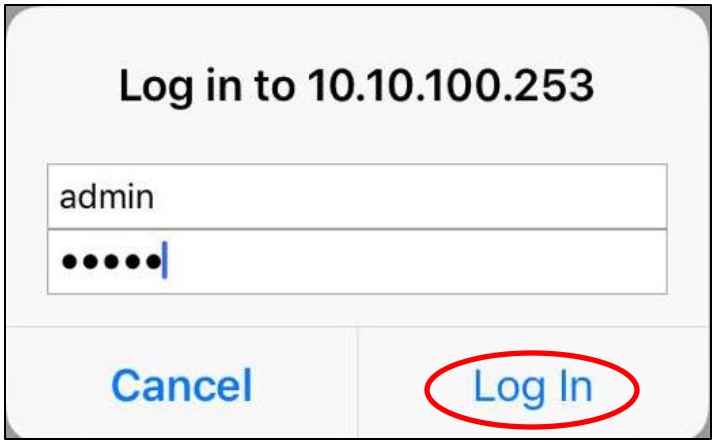
2.1 Configure Wi-Fi by Web

2. Navigate to : 10.10.100.253



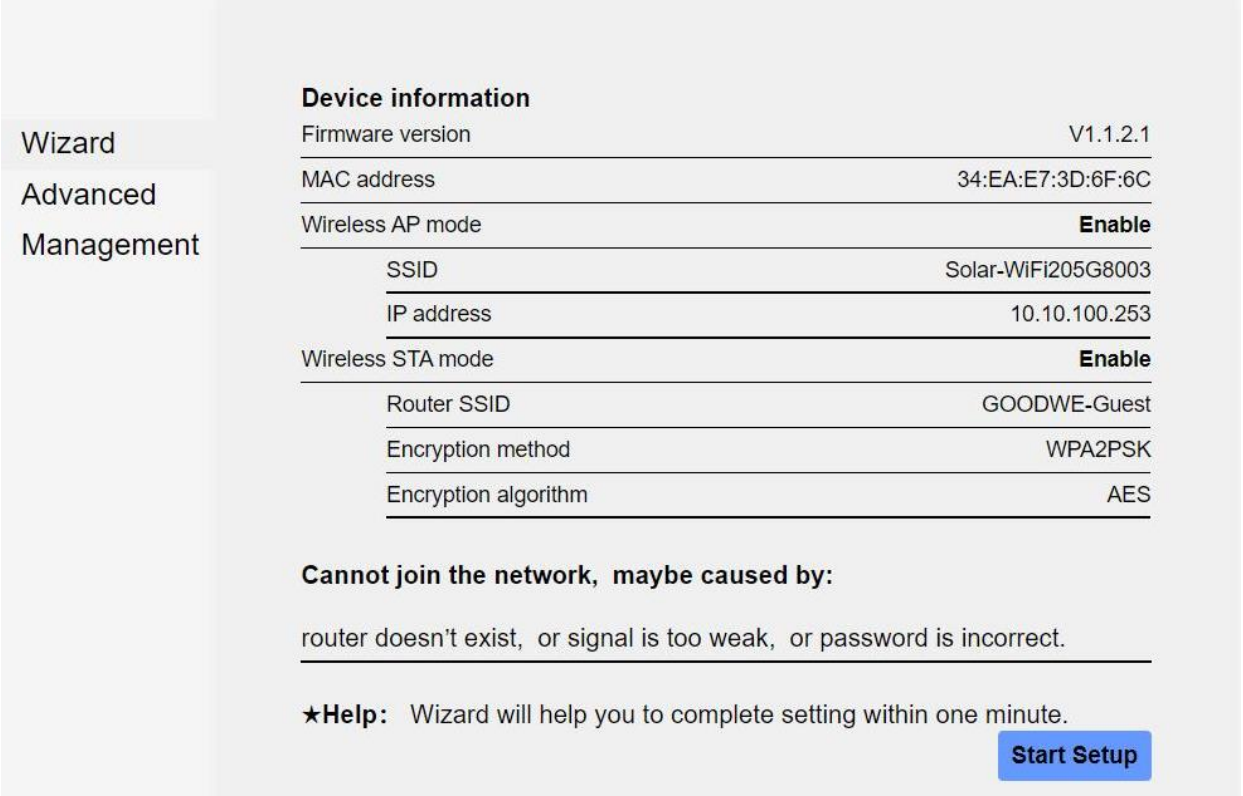
3. User Name: 'admin'
   Password: 'admin'

4. Click 'Log In' to enter configuration page



2.1 Configure Wi-Fi by Web

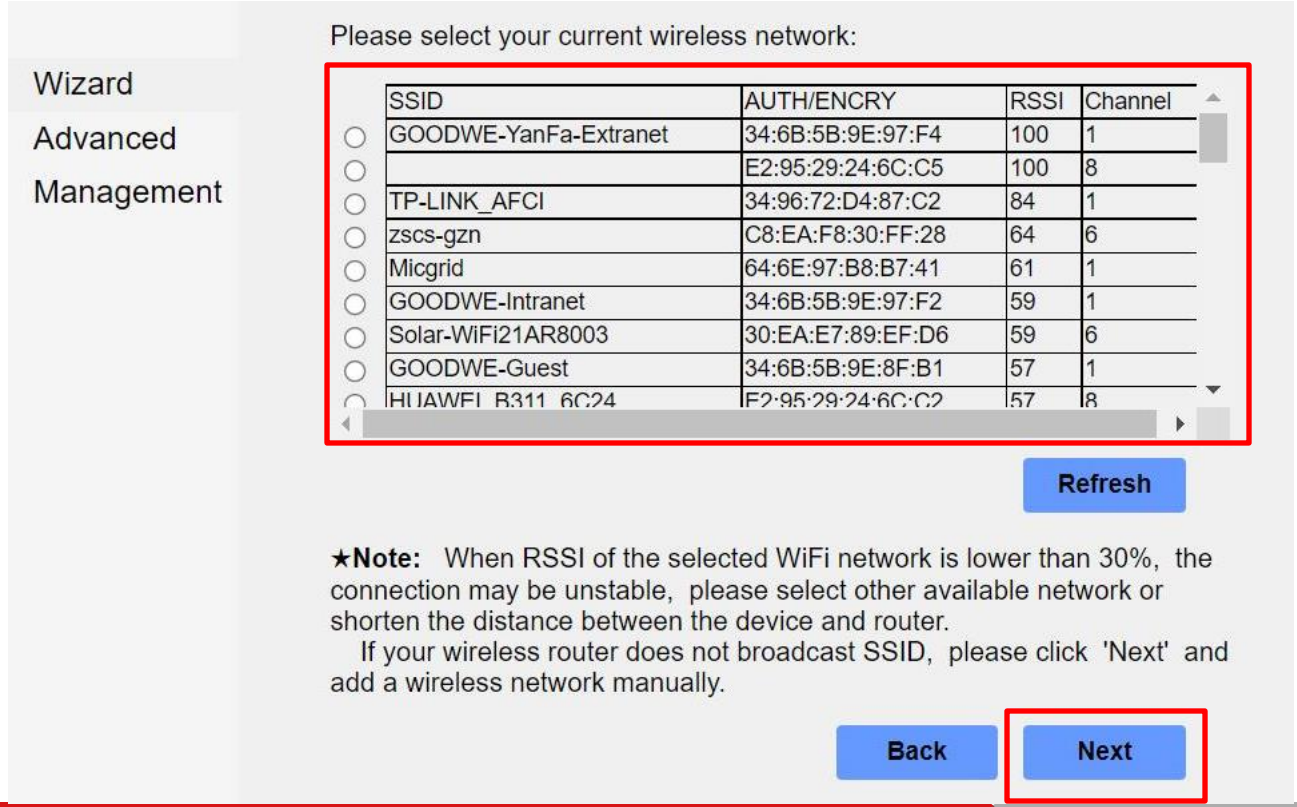
5. Click ‘Start Setup’ to next page



2.1 Configure Wi-Fi by Web

6. Choose WiFi signal of your own router by “Wizard”

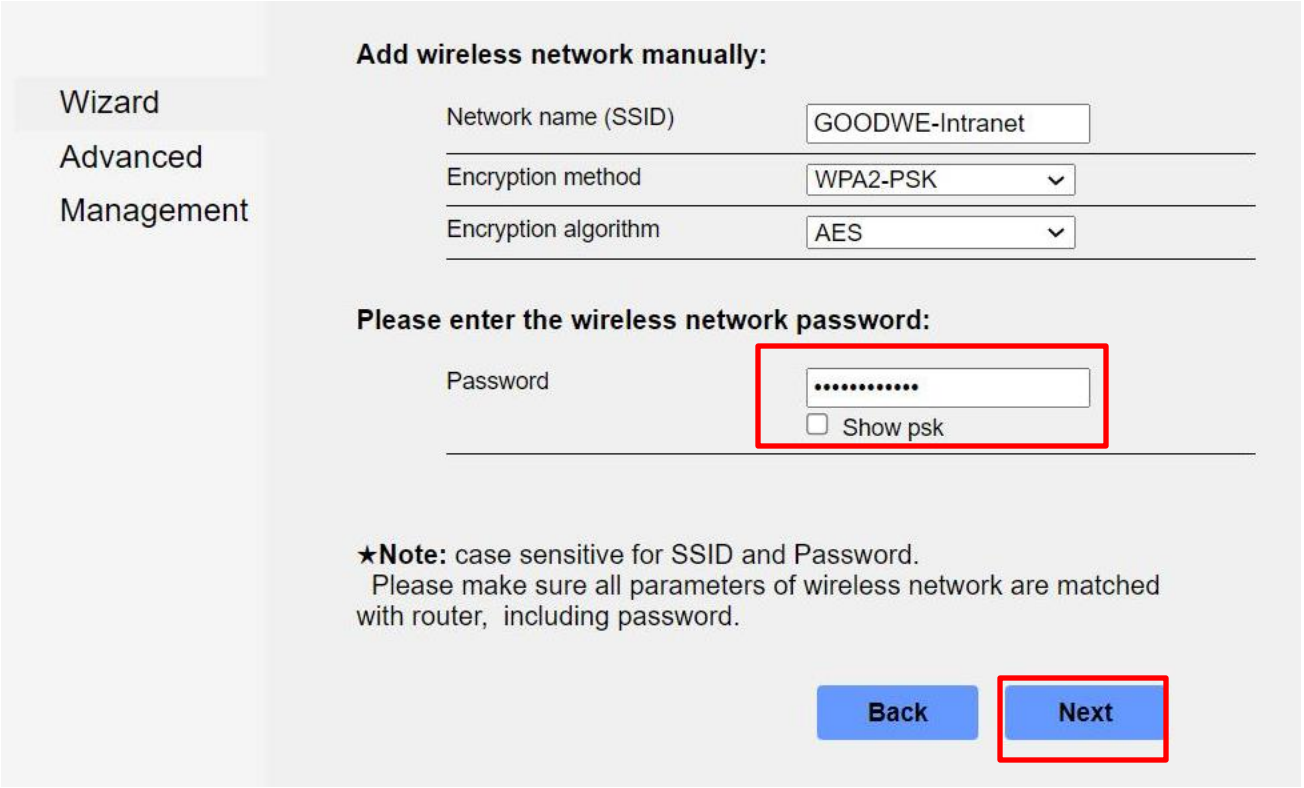
7. Then click ‘Next’



2.1 Configure Wi-Fi by Web

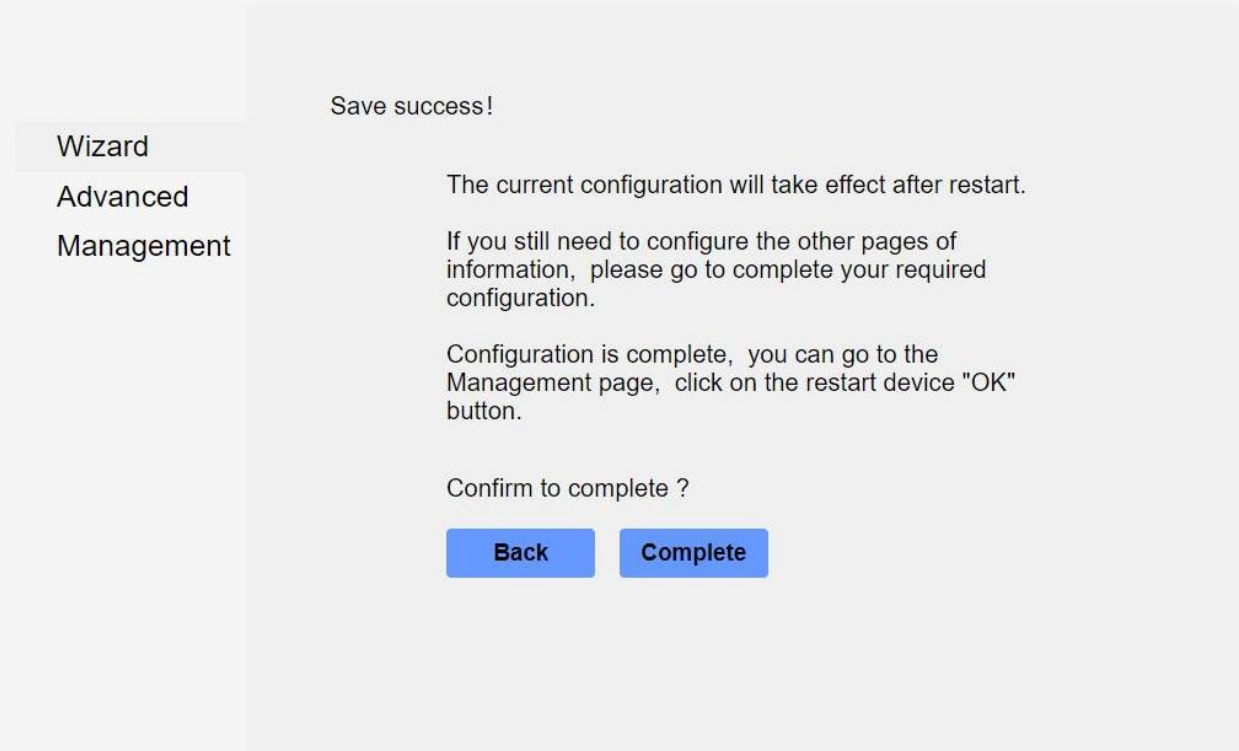
8. Enter the password for router

9. Click ‘Next’

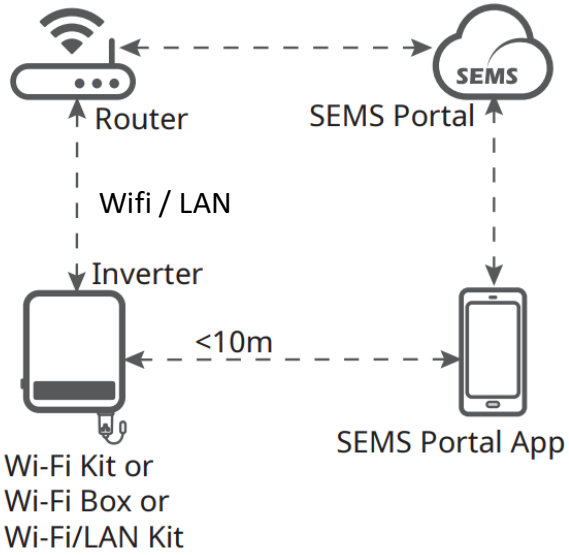


2.1 Configure Wi-Fi by Web

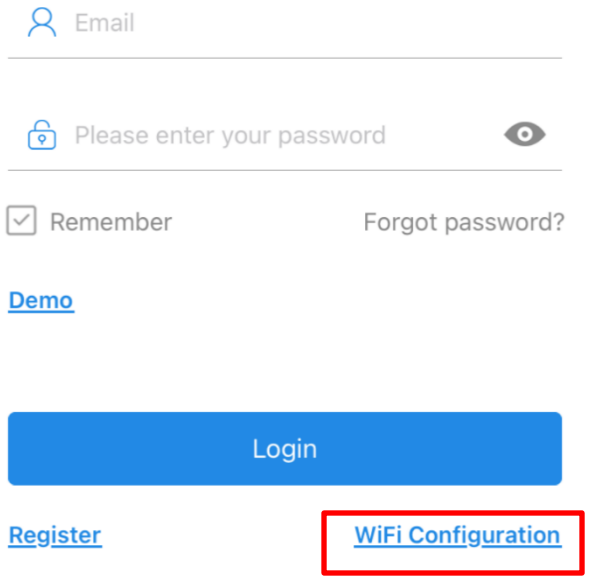
10. Configure successfully



2.2 Configure Wi-Fi by SEMS



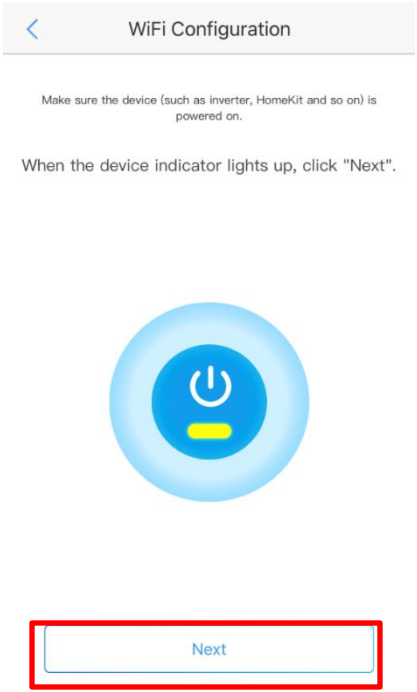
1. Run SEMS App on your mobile. Click 'WiFi Configuration' in login page.



https://www.youtube.com/watch?v=2UsTwyvgJ6o

2.2 Configure Wi-Fi by SEMS

2. click ‘Next’.



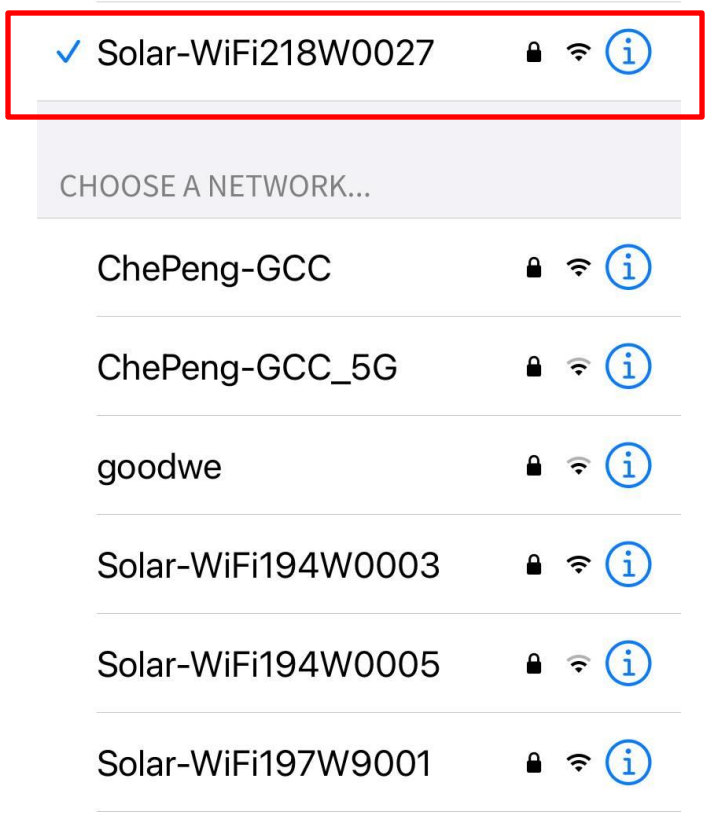
3. Click ‘Go to WLAN settings’.



2.2 Configure Wi-Fi by SEMS

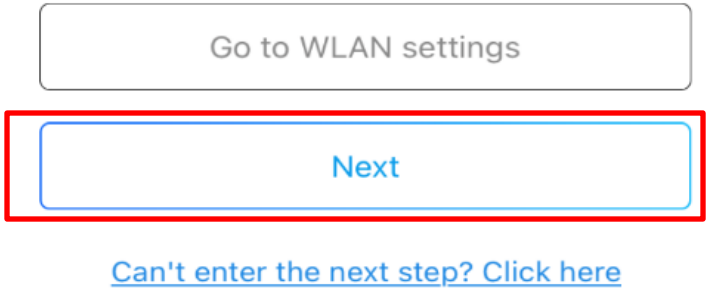
4. Connect to Solar-WiFi*(password: 12345678), return to SEMS

(* means the last 8 characters of the inverter serial number)



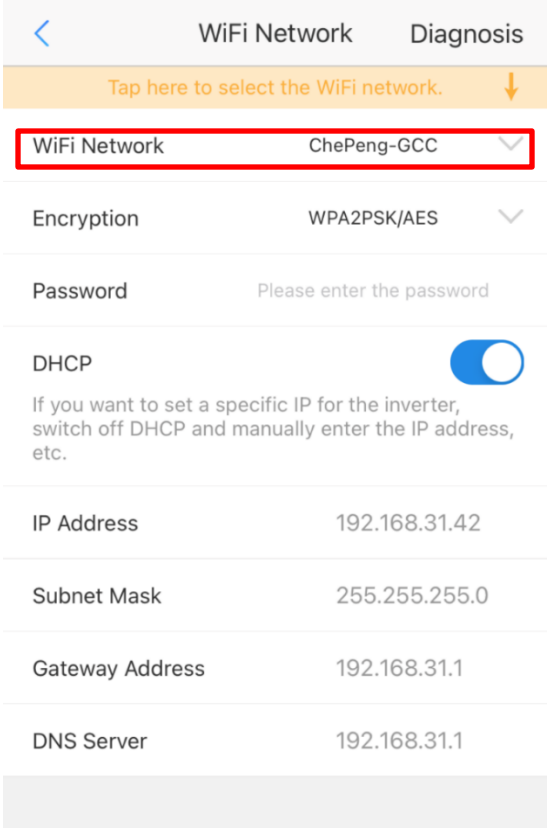
2.2 Configure Wi-Fi by SEMS

5. Click ‘Next’.



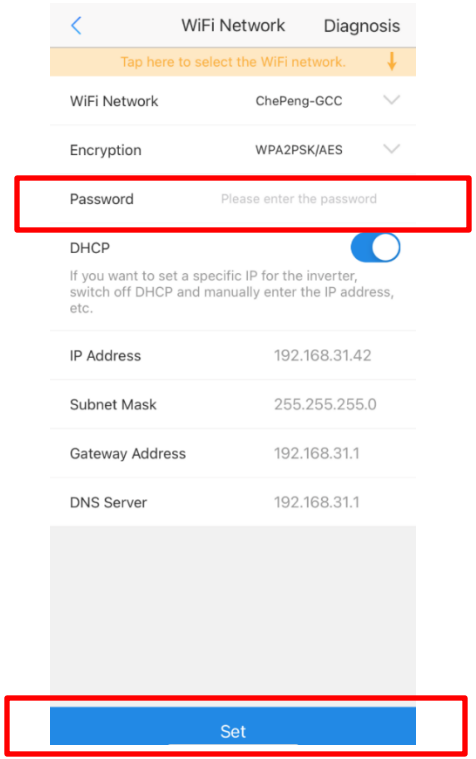
2.2 Configure Wi-Fi by SEMS

6. Select your Wi-Fi Network.

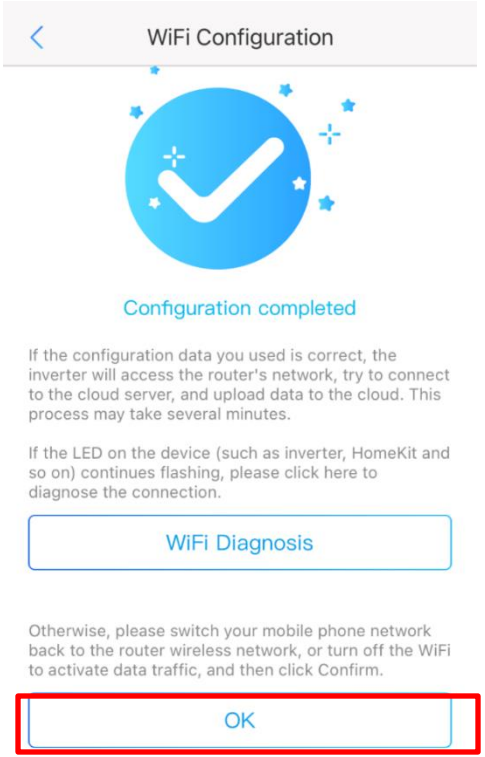


2.2 Configure Wi-Fi by SEMS

7. Enter password, and click ‘Set’.



8. Read the hint before click ‘OK’.





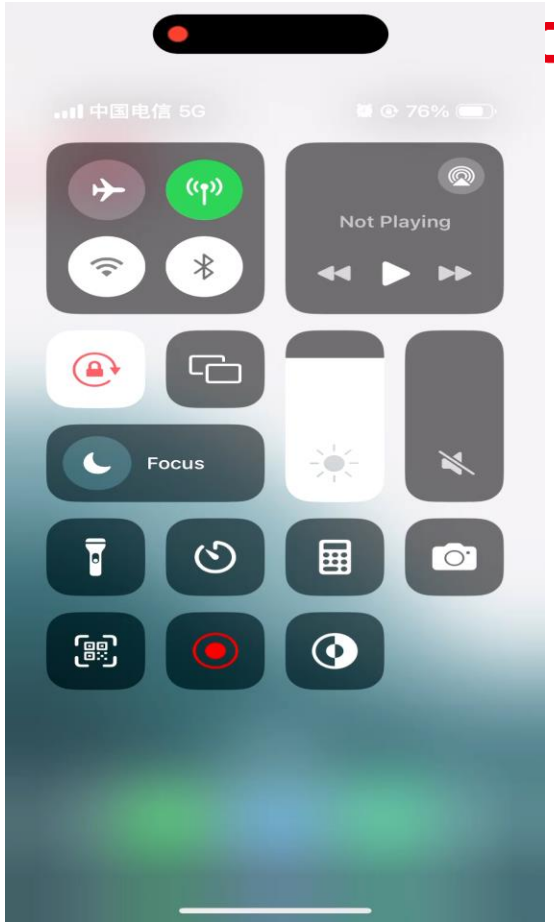
03 Wi-Fi Configuration- Wi-Fi 2.0

3.1 Configuration overview

Wi-Fi 2.0 module can only be configured via SolarGo

1. Download and run SolarGo.
2. Connect the inverter via Bluetooth.
3. Go to **More** and configure Wi-Fi parameters.
4. Check the Wi-Fi configuration by indicators(inverter

SolarGo App



3.2 Configure Wi-Fi via SolarGo

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Precondition: The Bluetooth function on the phone is enabled.



1	Type of the Smart Dongle • WLA: WiFi/LAN Kit-20 • WFA: WiFi Kit-20
2	Bluetooth
3	The last 8 digits of the inverter SN

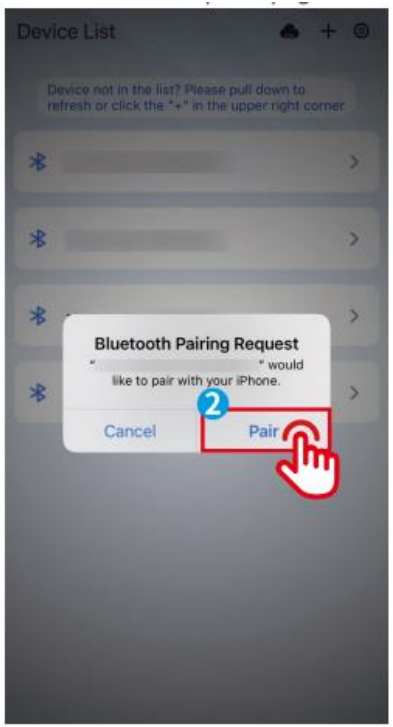
Step 1. Go to SolarGo and refresh the device list, select and connect to WLA/WFA on the list.

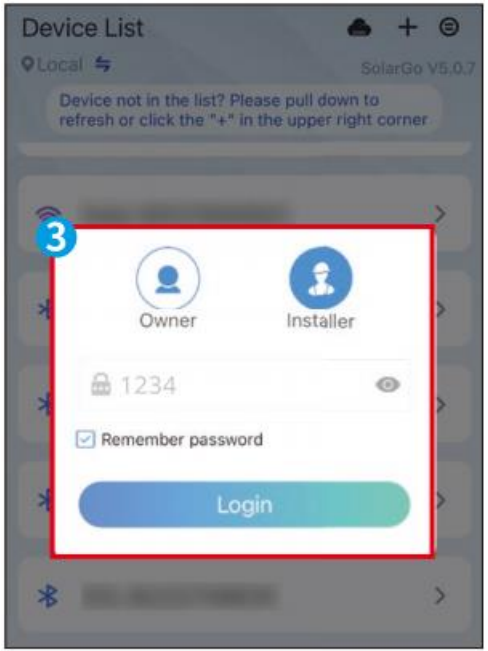


Note: For firmware version 1.2.32 or above, it displays the full SN (13 digits) of the inverter instead of the last 8 digits.

3.2 Configure Wi-Fi via SolarGo

Step 2: Click “Pair” on the popping “Bluetooth Pair Request” page.

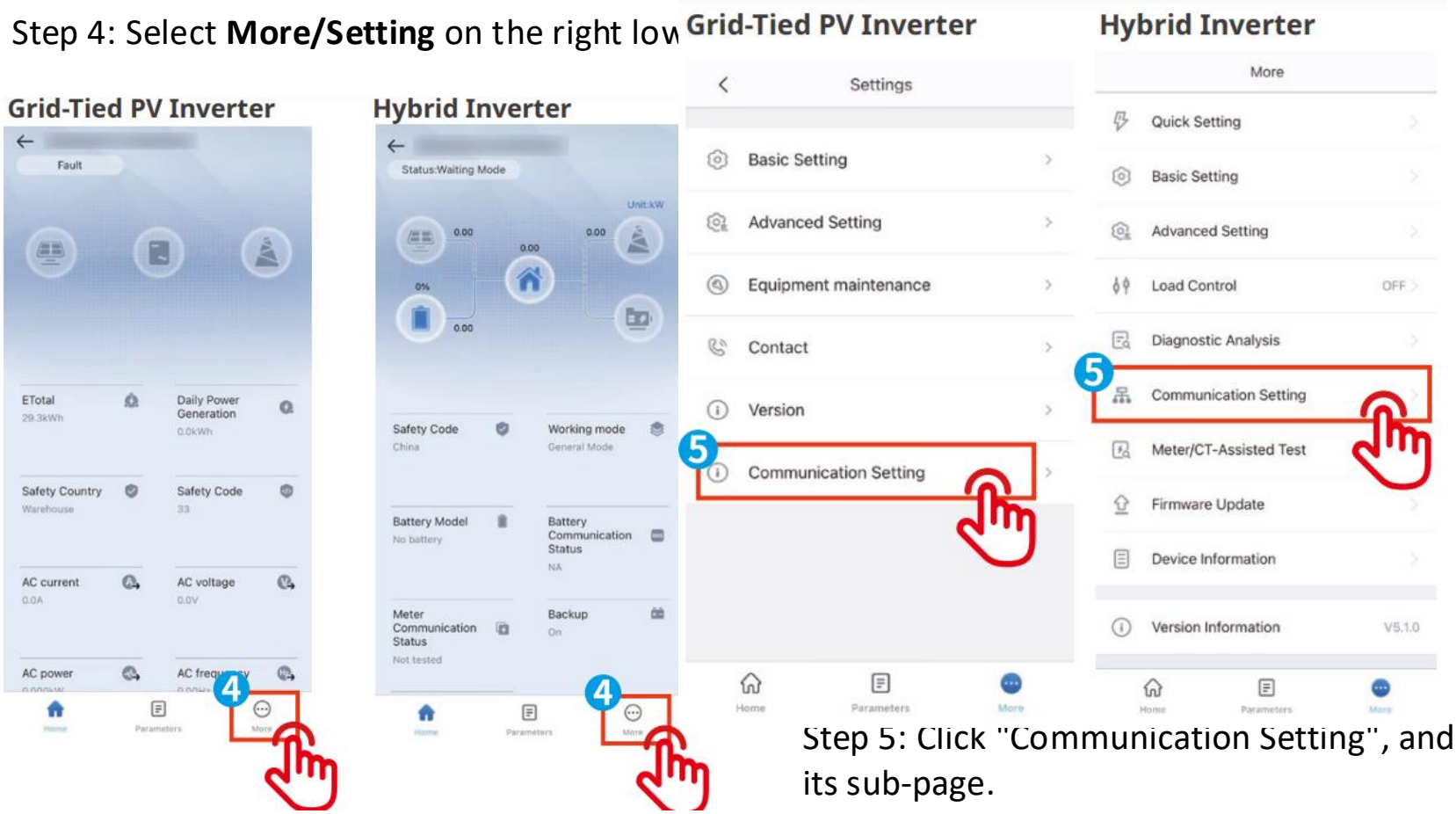




Step 3(Optional-Only for Grid-Tied PV Inverter) Select "Owner" or "Installer". Then enter the password to log in. The initial password is "1234".

3.2 Configure Wi-Fi via SolarGo

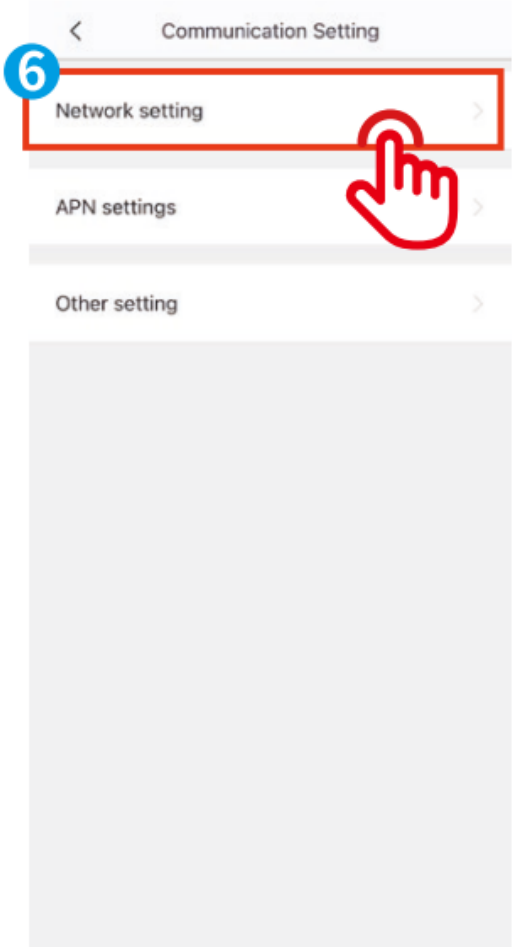
Step 4: Select **More/Setting** on the right low



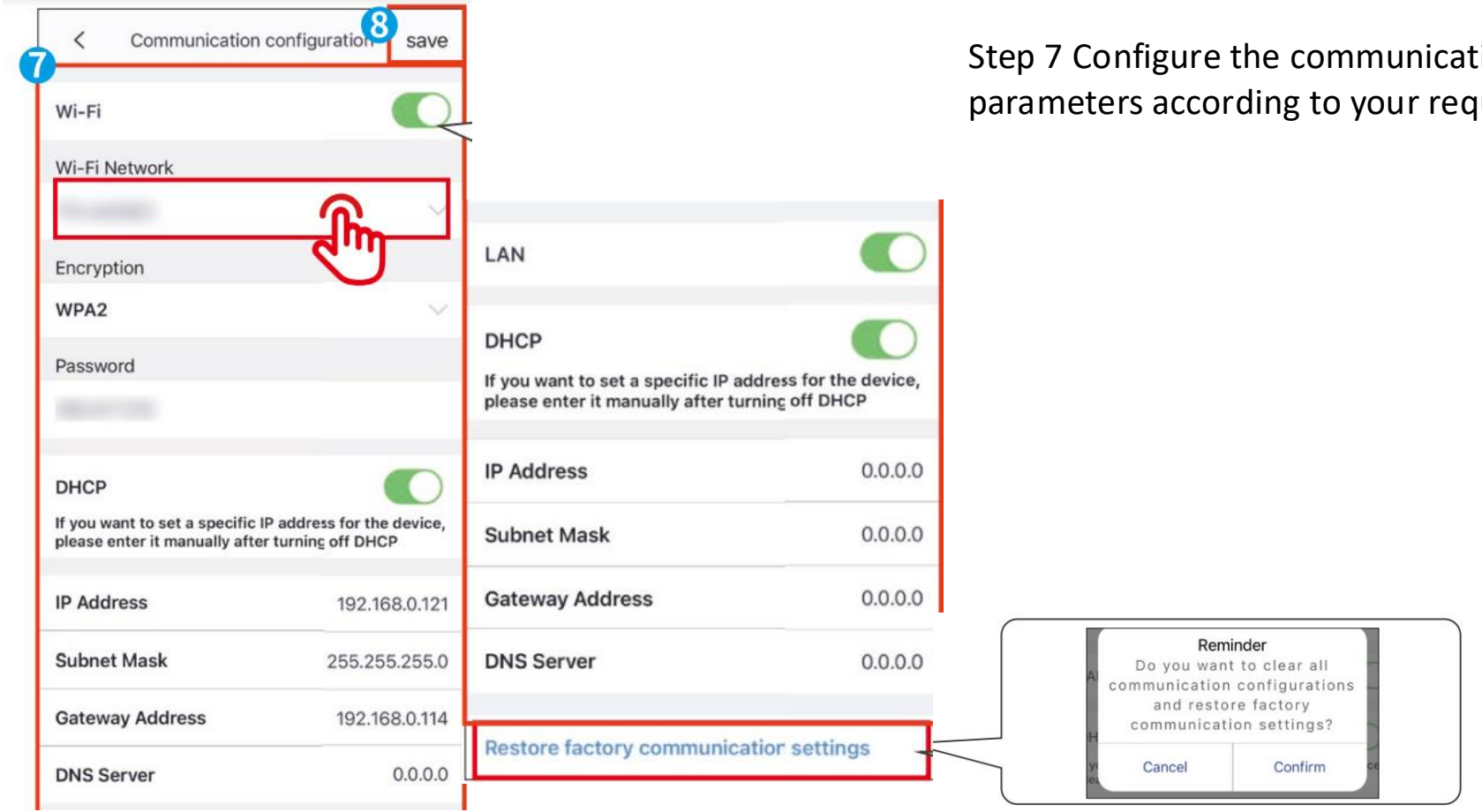
Step 5: Click "Communication Setting", and enter into its sub-page.

3.2 Configure Wi-Fi via SolarGo

Step 6(Only for Hybrid Inverter) Click "Network Setting", and enter into its sub-page.



3.2 Configure Wi-Fi via SolarGo



Step 7 Configure the communication parameters according to your requirements.

3.2 Configure Wi-Fi via SolarGo

Parameters	Description
Network Name (SSID)	Set the parameters based on the router network information (only for WiFi mode).
Encryption method	
Password	
DHCP	• Enable DHCP only when the router is in dynamic IP mode. • Disable DHCP when using a switch or when the router is in static IP mode.
IP address	• No need to configure parameters when DHCP is enabled. • When DHCP is disabled, configure parameters based on the router or switch information.
Subnet Mask	
Gateway Address	
DNS Server	
Restore Factory Communication Settings	Used when restoring the Smart Dongle to factory settings.

Note: Make sure that the WiFi RSSI value is higher than -60, -50 or higher is recommended. When the RSSI value is less than -60, you should move the router closer to the device, remove the obstacle, or add a repeater to improve the signal strength.

Step 8 Tap Save to complete the configurations.

3.2 Configure Wi-Fi via SolarGo

Check the cloud indicator on the inverter and the COM indicator on the module.

SEMS

	Steady green	The Communication module is working properly.
	Quartic Green Blinking	The inverter is not connected to the server.
	Double Green Blinking	The inverter is not connected to the router.
	Single Green Slow Blinking	RS485 is working normally.
	Single Green Fast Blinking	Communication is reseting or restarting.
	Off	No communication.



04 Troubleshooting

4.1 Troubleshooting _ Wi-Fi 1.0

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No.	Problem	Solutions
1	Cannot find Solar-WiFi**	1. Make sure that the inverter is powered on and the WiFi module is connected properly. 2. Make sure that the smart device is within the communication range of the WiFi module. 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.

4.1 Troubleshooting _ Wi-Fi 1.0

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. Move 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 SEMS Portal App to check if the inverter is online. 2. Restart Wireless Router and the inverter.

4.1 Troubleshooting _ Wi-Fi 2.0

No.	Problem	Solutions
1	Cannot find WFA-BLE**/WLA-BLE**	1. Refresh the device list in the App. 2. Make sure that the WiFi module is connected properly and the blue indicator is flashing or solid on. 3. Make sure that the Smart Dongle on the inverter is powered on and the blue indicator is flashing or solid on. 3. Make sure that the smart device is within the communication range of the Wi-Fi module. 4. Restart the inverter.
2	Unable to connect to WFA-BLE**WLA-BLE**	1. Make sure the Bluetooth function of the smart device is turned on. 2. Make sure successful encrypted pairing of Bluetooth. 3. Make sure no other smart device is connected to WFA-BLE**/WLA-BLE**. 4. Restart the inverter and reconnect to WFA-BLE** WLA-BLE**

4.1 Troubleshooting _ Wi-Fi 2.0

No.	Problem	Solutions
3	Cannot find router SSID	1. Put the router nearer to the Smart Dongle. Or add a Wi-Fi repeater device to enhance the Wi-Fi signal. 2. Check if the router's channel number is higher than 13. If it is, manually modify the value to a smaller one in the router settings.
4	After completing all configurations, the Smart Dongle fails to connect to the router	1. Restart the inverter. 2. Check if the SSID, encryption method and password on Wi-Fi configuration page are the same with that of Router. 3. Restart the router. 4. Put the router nearer to the Smart Dongle. Or add a Wi-Fi repeater device to enhance the Wi-Fi signal.

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THANK YOU