



GOODWE WiFi Box Communication Module Installation Guide

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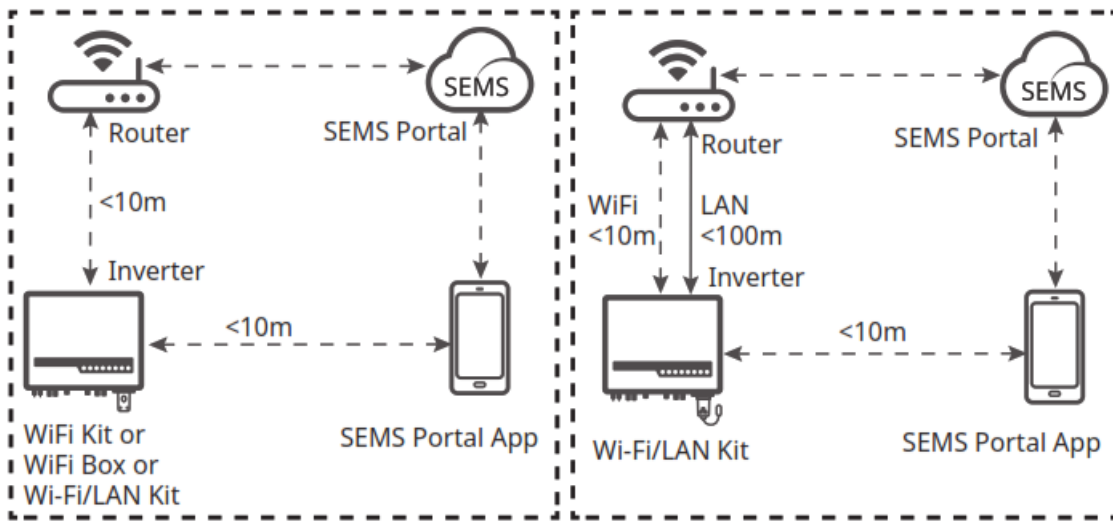


Quick Installation Guide V1.3-2022-09-06
Communication Module
(Wi-Fi/LAN Kit & WiFi Kit & WiFi Box)
V1.3-2022-09-06

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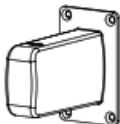






Applications



Communication Network via WiFi
Communication Network via LAN

Installation

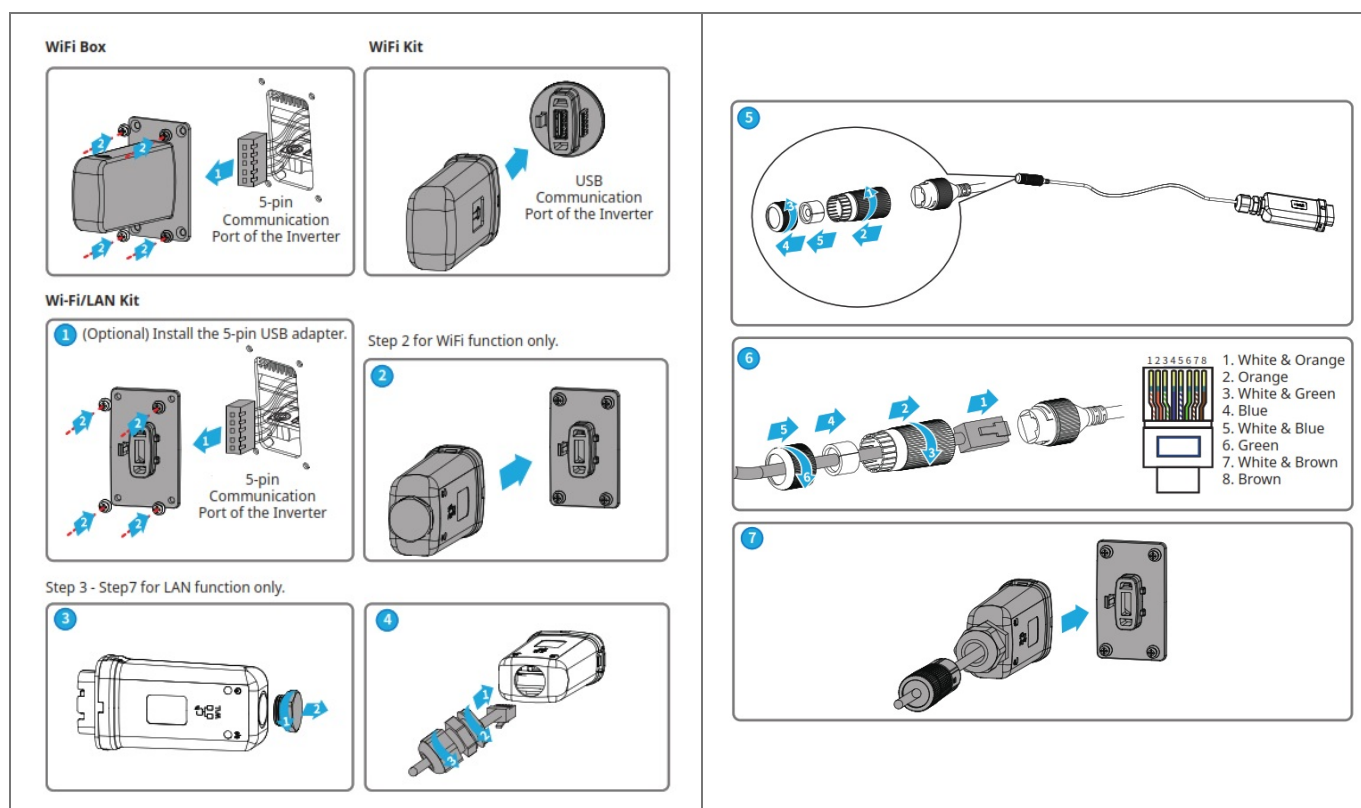
Packing List

	Or		Or		
WiFi Kit x 1		WiFi Box x 1		Wi-Fi/LAN Kit x 1	Unlock Tool x 1 [1]
					
Wire Harness x 1 [2]		5-pin USB adapter x N [3]		Screw x N [3]	User Manual x 1

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

Installing the module

Note: This device should be installed and operated with a minimum distance of 20 cm between the radiator and your body.





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

Commissioning via SEMS Portal App

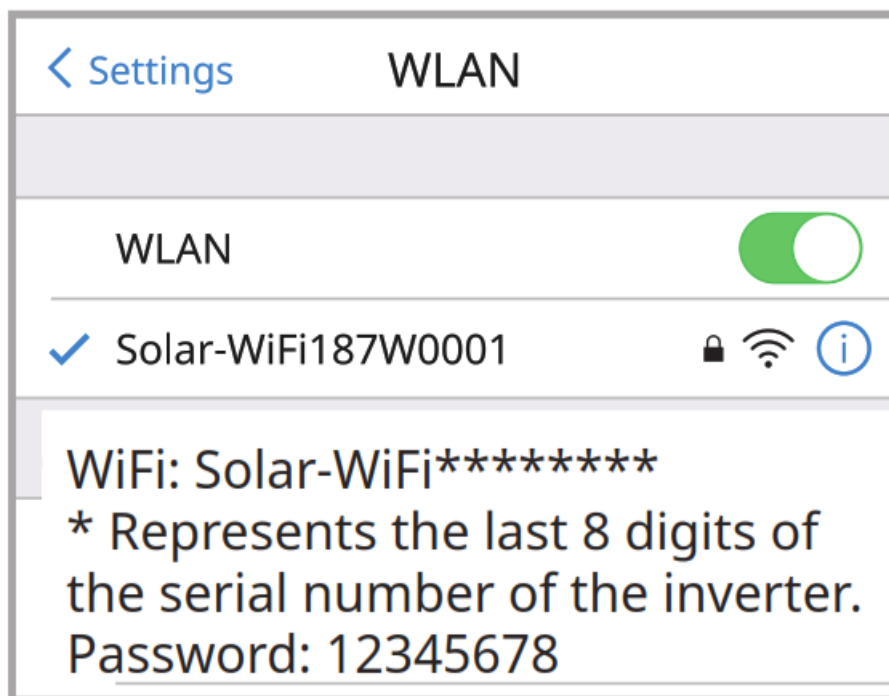
Step 1 Download and install the SEMS Portal App.



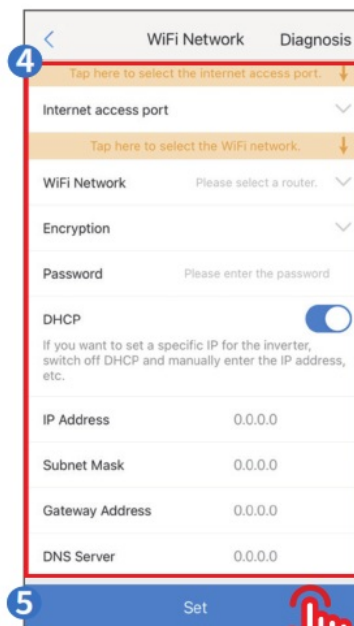
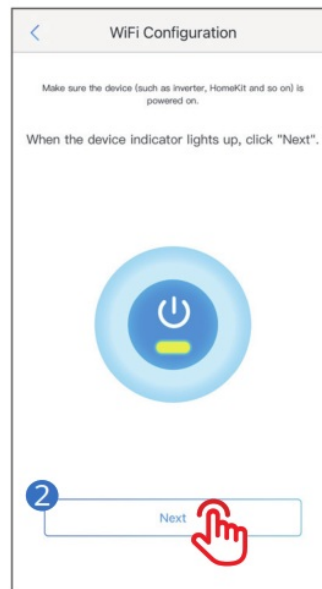
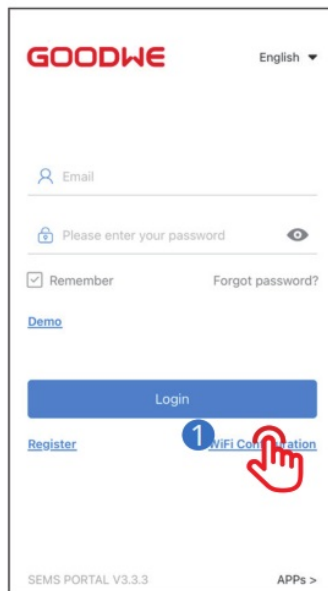
SEMS Portal App

<https://www.semsportal.com/home/AppDownload>

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	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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

Note: Configuring parameters via the web applies to the WiFi Kit and WiFi Box, not the Wi-Fi/ LAN Kit.

The screenshot displays the web commissioning interface with five numbered steps:

- Log in to 10.10.100.253**: The login URL is highlighted in a red box.
- User Name admin**: The username field is highlighted in a red box.
- Password admin**: The password field is highlighted in a red box.
- Log In**: The login button is highlighted in a red box.
- Start Setup**: The 'Start Setup' button at the bottom right is highlighted in a red box.

The configuration page shows the following details:

- 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

Below the configuration, a message states: "Cannot join the network, maybe caused by: router doesn't exist, or signal is too weak, or password is incorrect." A help note at the bottom says: "★Help: Wizard will help you to complete setting within one minute."

Please select your current wireless network:

	SSID	AUTH/ENCRY	RSSI	Channel
<input type="radio"/>	Solar-WiFi205G0484	*****	100	6
6 <input 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
<input type="radio"/>	*****	*****	*****	*****

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.

Add wireless network manually:

Network name (SSID)	<input type="text" value="TP-LINK_Network"/>
Encryption method	8 <input type="text" value="WPA2-PSK"/>
Encryption algorithm	<input type="text" value="AES"/>

Please enter the wireless network password:

Password	9 <input type="password" value="••••••••"/> <input type="checkbox"/> Show psk
----------	---

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

<input type="button" value="Back"/>	10 <input type="button" value="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, and click on the restart device "OK" button.

Confirm to complete?

<input type="button" value="Back"/>	11 <input type="button" value="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.

12 Wizard
Advanced Management

Network name(SSID) Solar-WiFi123W1234

Encryption mode WPA/WPA2-PSK

Encryption algorithm AES

Password(8 to 63 characters) 12345678

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

Save

DHCP setting for STA

IPDHCP Mode STATIC

IP address 192.168.9.147

Subnet mask 255.255.255.0

Gateway address 192.168.9.14

DNS server address 80.59.16.0

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

Save

Saved Successfully!

Configurations will take effect after restart. After restarting, 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 configurations.

16 Restart Back

No.	Parameters	Description
1	DHCP Mode	Select STATIC.
2	IP Address	Set the parameters of the WiFi Kit based on the router network information.
3	Subnet Mask	
4	Gateway Address	
S	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.

Step 1: Login

Log in to 10.10.100.253
Your password will be sent unencrypted.

User Name: admin
Password: admin
Log In

Step 2: Wireless Network Settings

Mode Settings
AP Settings
STA Settings
Device Management

Wireless Network

Network Mode: 11b/g/n mixed mode
Network Name(SSID): Solar-WiFi203W01
BSSID: 34:EA:E7:D4:6A:88
Frequency (Channel): Auto

Submit Reset

Solar-WiFi203W0013

Security Mode: WPA2-PSK

WPA

WPA Algorithms: TKIP AES
Key: [Input Field]

Submit Reset

Step 3: Success Message

Set successfully, restart to use new setting.

Restart button in Device Management

Step 4: Restart Module

Mode Settings
AP Settings
STA Settings
Device Management

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/WiFi Box

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

2 User Name **admin**

3 Password **admin**

4 Log In

1 Wizard
Advanced
Management

Access point setting

Network name (SSID)

Encryption mod

Encryption algorithm

Password (8 to 63 characters) **2**

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

3 Save

DHCP setting for STA

IP DHCP Mode

IP address

Subnet mask

Gateway address

DNS server address

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

Save

Wizard
Advanced
Management

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.


4 Restart Back

Restart/Reload Default success!

Device Replacement


- Step 1 Prepare the new device before replacing the device.
- Step 2 Remove the device using the Unlock Tool.
- Step 3 Install the new device.
- Step 4 Refer to the device Quick Installation Guide to configure the device.

For Wi-Fi/LAN Kit and WiFi Kit.



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

For WiFi Box.



The diagram illustrates the removal of the WiFi box cover in two steps. Step 1 shows a grey rectangular cover being detached from a metal mounting plate. Four screws are shown being removed from the cover, indicated by blue arrows with the number '1'. Step 2 shows the cover being lifted away from the device, revealing the internal components. A blue arrow with the number '2' points to the second step.

Troubleshooting

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, and 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 the router is higher than 13. If yes, modify it to a lower number at the 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 the WiFi configuration page is the same as that of the 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 the WiFi signal.
6	WiFi LED indicator blinks four times continuously when all configuration steps done	<ol style="list-style-type: none"> 1. Connect the smart device to the network and access to SEMS Portal App to check if the inverter is online. 2. Restart Wireless Router and the inverter.

Technical Data

Model		Wi-Fi/LAN Kit	WiFi Kit	WiFi Box
General Data	Input Voltage	5V		
	Power Consumption	s 2W		
	Dimension (L x W x D)	102 x49 x32	96 x49 x32 or 96 x 46 x 29	71.5 x 65×39.5
	Operating Temperature	-30 – 60°C		
	Operating Humidity	0 – 100% RH (No Condensation)		
	Operating Altitude	<4000m		
	Ingress Protection Rating	IP65		
Comm Data	Port	RJ45	—	
	Extension Cable of LAN	0.5m	—	
	Communication	LAN or WiFi	WiFi	
	Transmission Rate	UART: 115200bps Ethernet: 10Mbps /100 Mbps	UART: 9600bps	
	Max. Network Cable Transmission Distance	100m	—	
	Frequency Range	2.412GHz-2.472GHz		
	Supported Standards	802.11 b/g/n		
	Supported Device	Router or Switch	I Router	
	RF Outpower	< 20 dBm		
	Software Data	Configuration	App or Web	
Language		English		
Working Mode		AP/STA/AP+STA		

EU Declaration of Conformity

GoodWe Technologies Co., Ltd. hereby declares that the communication device sold in the European market meets the requirements of the following directives:

- Radio Equipment Directive 2014/53/EU (RED)
- Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)
- Waste Electrical and Electronic Equipment 2012/19/EU
- Registration, Evaluation, Authorization and Restriction of Chemicals (EC) No 1907/2006 (REACH)

You can download the EU Declaration of Conformity on <https://en.goodwe.com>.



Offical Website

<https://en.goodwe.com/contact-us.asp>

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Documents / Resources



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Communication Module
(Wi-Fi LAN Kit, Wi-Fi Kit, Wi-Fi Box, Wi-Fi Box Communication Module, Communication Module, Module)
V1.0 (2022-09-08)

[GOODWE WiFi Box Communication Module](#) [pdf] Installation Guide

Wi-Fi LAN Kit, WiFi Kit, WiFi Box, WiFi Box Communication Module, Communication Module, Module

References

- [W](#)
- [W GoodWe: Smart Energy Innovator](#)