GOODWE

Quick Installation Guide

Smart Dongle

(WiFi/LAN Kit-20 & WiFi Kit-20)

V1.0-2023-05-20

01 General Statement

- The information in this guide is subject to change due to product updates or other reasons. This guide cannot replace the safety precautions on the product labels unless otherwise specified. All descriptions in this guide are for guidance only.
- Read through this guide before installations.
- All operations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Before installation, check the deliverables for correct model, complete contents, and intact appearance. Contact after-sales service if there is any abnormality.
- Strictly follow the installation, operation, and configuration instructions in this guide. The manufacturer shall not be liable for equipment damage or personal injury if not following the instructions. For more warranty details, please visit http://www.goodwe.com: https://www.goodwe.com/warrantyrelated.html.

02 Technical Parameters

Type		WiFi/LAN Kit-20	WiFi Kit-20
Input Voltage(V)		5	
Power(W)		≤2	
Communication	**LAN**	10/100Mbps self-adaption	/
	WLAN	IEEE 802.11 b/g/n @2.4 GHz	
	Bluetooth	Bluetooth V4.2 BR/EDR Bluetooth LE specification	
Mechanical Parameters	**Dimension (W*H*D)**	48.3*159.5*32.1	48.3*95.5*32.1
	Weight (g)	82	54
	Ingress Protection Rating	IP65	
	Installation	Plug-and-play	
Operating Temperature Range(°C)		-30 ~ +60	
Storage Temperature Range (°C)		-40 ~ +70	
Relative Humidity Range		0-95%, non-condensing	
Max.Operating attitude(m)		4000	

03 EU Declaration of Conformity

The equipment with wireless communication modules sold in the European market meets the requirements of the following directives:
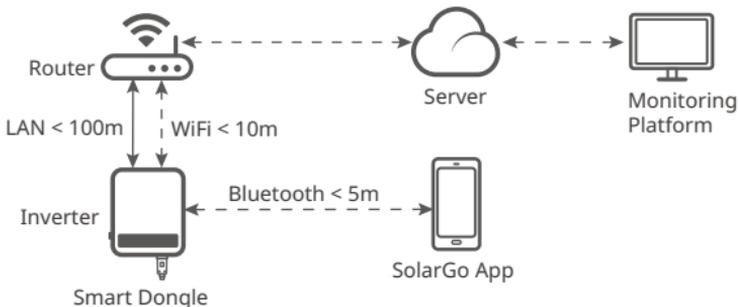- Radio Equipment Directive 2014/53/EU (RED)
- Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)
- Waste Electrical and Electronic Equipment 2012/19/EU
- Registration, Evaluation, Authorization and Restriction of Chemicals (EC) No 1907/2006 (REACH)

You can download the EU Declaration of Conformity on the official website: www.goodwe.com.
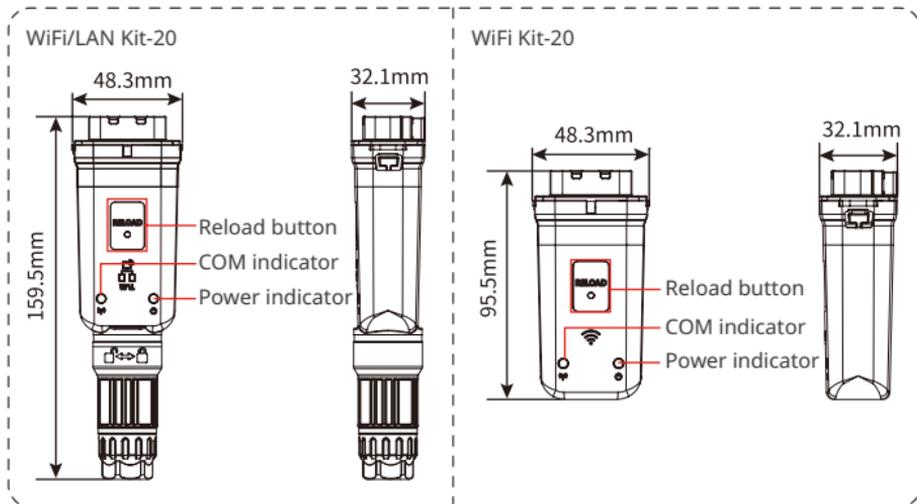
04 Applications

NOTICE
• Monitor the equipment via SEMS. The third-party monitoring platform must be compatible with the Modbus-TCP communication protocol for use. • LAN mode is only applicable to WiFi/LAN Kit-20.

05 Product Introduction

Parts and Dimension

WiFi/LAN Kit-20

48.3mm   32.1mm

159.5mm

- Reload button
- COM indicator
- Power indicator

WiFi Kit-20

48.3mm   32.1mm

95.5mm

- Reload button
- COM indicator
- Power indicator

06 Installation

Deliverables

WiFi Kit -20 x 1   or   WiFi/LAN Kit -20 x 1

Document x 1

screws x N

5-Pin USB adapter x N

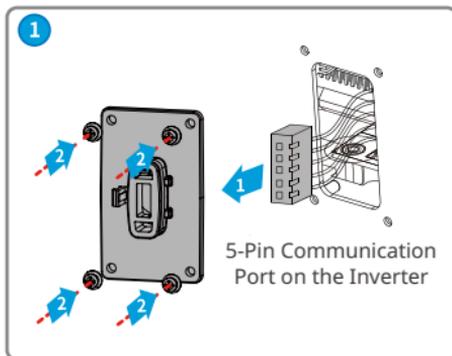N = Quantity depends on the Smart Dongle configuration.

Installing the Smart Dongle

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

(Optional) **Step 1** Install the 5-pin USB adapter on the inverter.

5-Pin Communication Port on the Inverter

NOTICE
Steps 2 and 3 are only applicable to WiFi/LAN Kit-20 when the LAN function is required.

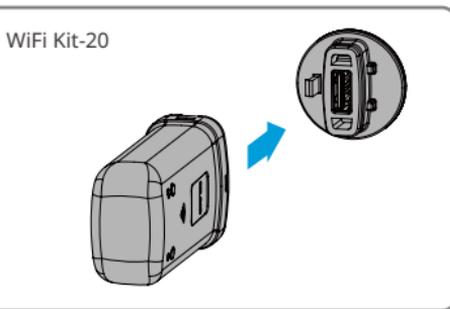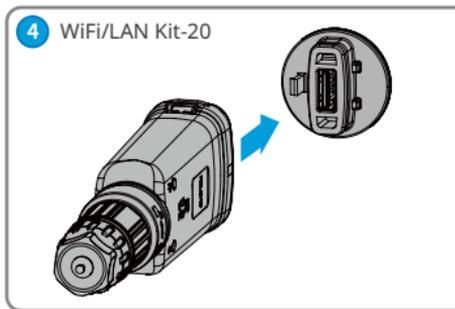**Step 2** Remove the waterproof connector.
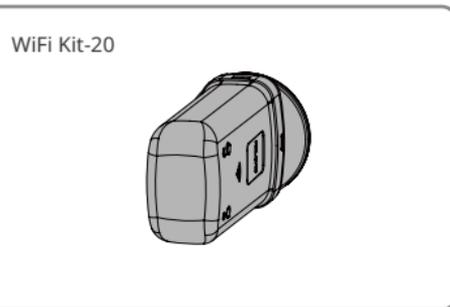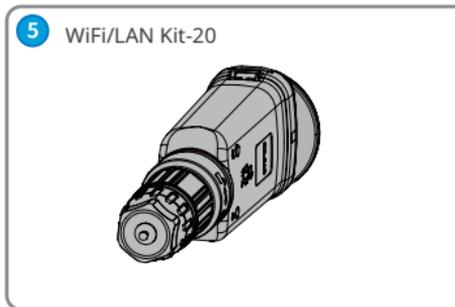**Step 3** Route the LAN communication cable through the connector.

PIN	Color	PIN	Color
1	White & orange	5	White & blue
2	Orange	6	Green
3	White & green	7	White & brown
4	Blue	8	Brown
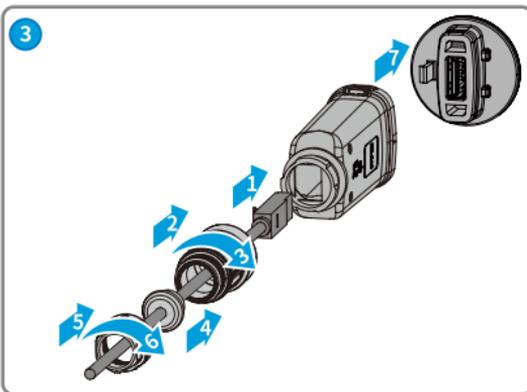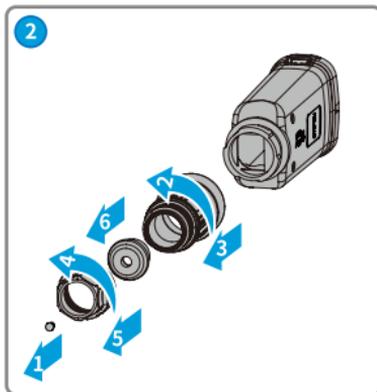
Step 4 Connect the Smart Dongle into the inverter.


Step 5 Finish the connection.

07 Power On

Step 1 Power on the inverter.
Step 2 Power on the router.
Step 3 Determine the communication status of the Smart Dongle based on the communication indicator on the inverter side.

Indicator	Status	Description
⏻	▬▬▬	Solid on: The Smart Dongle is powered on.
	————	Off: The Smart Dongle is not powered on.
((•))	▬▬▬	Solid on: The WiFi or LAN communication is working well.
	▬▬ ▬▬	Two flashes: The Smart Dongle is not connected to the router.
	▬▬▬▬ ▬▬▬▬	Four flashes: The Smart Dongle is communicating with the router but not connected to the server.
	————	Off: The software of the Smart Dongle is in reset or not powered on.
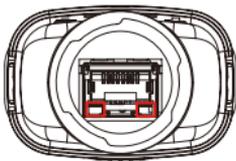
Indicator	Color	Status	Description
Communication indicator in LAN Port	Green	Solid on	The connection of the wired network at 100Mbps is normal.
		Flashing	• The Ethernet cable is not connected. • The connection of the wired network at 100Mbps is abnormal. • The connection of the wired network at 10Mbps is normal.
	Yellow	Solid on	The communication data is being transmitted or received.
		Flashing	The Ethernet cable is not connected.

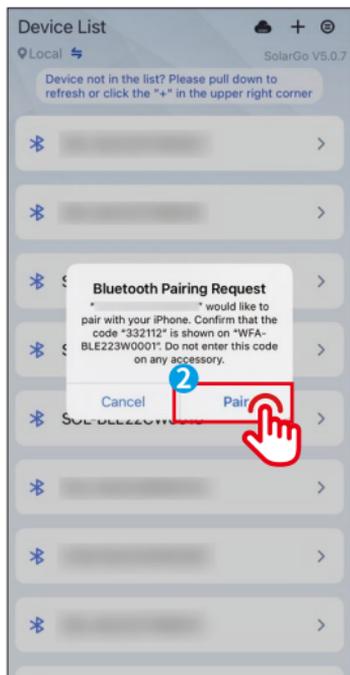| Button	Description
Reload	Press and hold for 0.5 to 3 seconds to reset the Smart Dongle.
	Press and hold for 6 to 20 seconds to restore the Smart Dongle to factory settings.

08 Commissioning

Commissioning via SolarGo App

Download and install SolarGo App.

SolarGo App

Step 2 Click "Pair" on the popping "Bluetooth Pair Request" page.
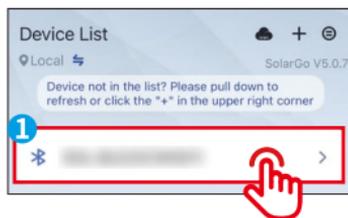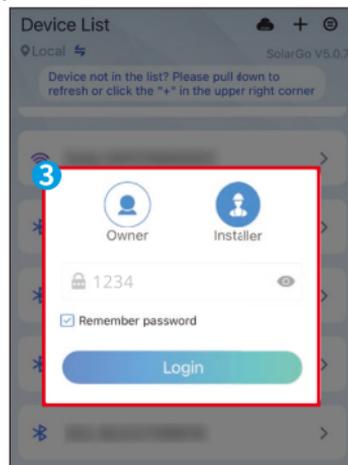

Step 1 Connect the Smart Dongle on the App.

WLA-BLE********
    1   2   3

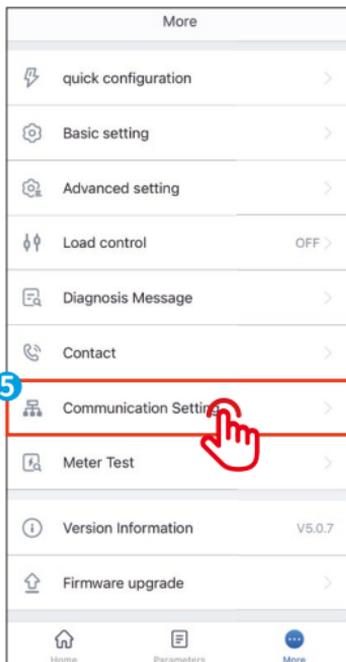| 1	Type of the Smart Dongle • WLA: WiFi/LAN Kit-20 • WFA: WiFi Kit-20
2	Bluetooth
3	The last 8 digits of the inverter SN

Step 3 Select "Owner" or "Installer". Then enter the password to log in. The initial password is "1234".
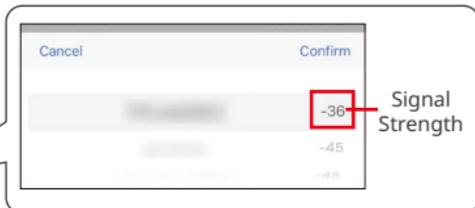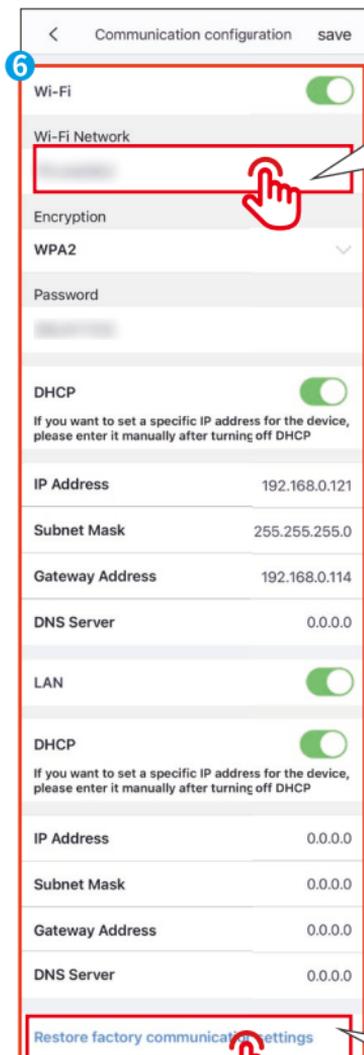
Step 4 Click "More", and enter into the sub-menu.
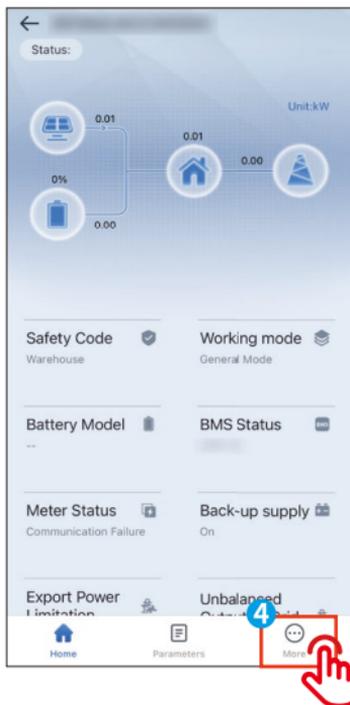
**Step 5** Click "Communication Configuration", and enter into its sub-page.

Step 6 Configure the communication parameters according to your requirements.

Communication configuration — save

6 Wi-Fi

Wi-Fi Network

Encryption
WPA2

Password

DHCP
If you want to set a specific IP address for the device, please enter it manually after turning off DHCP

IP Address	192.168.0.121
Subnet Mask	255.255.255.0
Gateway Address	192.168.0.114
DNS Server	0.0.0.0

LAN

DHCP
If you want to set a specific IP address for the device, please enter it manually after turning off DHCP

IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway Address	0.0.0.0
DNS Server	0.0.0.0

Restore factory communication settings

Cancel — Confirm

-36 — Signal Strength
-45

NOTICE
• LAN mode is only applicable to the SCD: WiFi/LAN Kit-20.
• When both WiFi and LAN modes are enabled on WiFi/LAN Kit-20, the communication is in LAN mode as priority.
• If both WiFi and LAN modes are disabled on WiFi/LAN Kit-20 simultaneously, the communication will not be available.

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.

Reminder
Do you want to clear all communication configurations and restore factory communication settings?

Cancel — Confirm
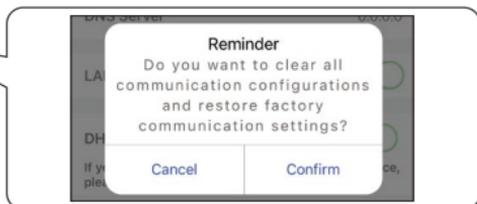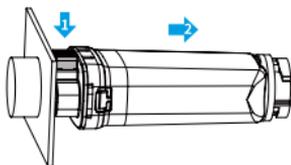
09 Replacing Equipment

NOTICE
Do not remove the Smart Dongle when the dongle or the inverter is in firmware upgrading. Otherwise the upgrading might fail.

Step 1 Prepare the new dongle before replacing.
Step 2 Remove the dongle on the inverter.
Step 3 Install the new dongle. For more details, refer to the corresponding device Quick Installation Guide.

Only applicable to WiFi/LAN Kit-20 Smart Dongle.

10 Troubleshooting

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

No.	Problem	Solutions
3	Cannot find router SSID	1. Put the router nearer to the Smart Dongle. Or add a WiFi relay device to enhance the WiFi 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 WiFi 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 WiFi relay device to enhance the WiFi signal.
5	After completing all configurations, the Smart Dongle fails to connect to the router.	Restart the router and the inverter.