

Smart Dongle

- WiFi LAN Kit-20
- WiFi Kit-20

User Manual

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NOTE

Due to product version upgrades or other reasons, the content of this document will be updated from time to time. Unless otherwise specified, the content of this document does not replace the safety precautions on the product label. All descriptions in this document are for guidance only.

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1 General Statement

- Due to product version upgrades or other reasons, the content of this document will be updated from time to time. Unless otherwise specified, the content of this document does not replace the safety precautions on the product label. All descriptions in this document are for guidance only.
- Before installing the device, please read this document carefully to understand the product and precautions.
- All operations on the device must be performed by professional and qualified electrical technicians, who must be familiar with the relevant standards and safety regulations of the project location.
- Before installing the device, check whether the types of delivered items match the order, whether the quantity is complete, and whether the appearance is damaged. If any abnormality is found, please contact the after-sales service center.
- Device damage or personal injury caused by failure to install, use, or configure the device in accordance with this document or the corresponding user manual is not within the responsibility of the device manufacturer. For more product warranty information, please visit the official website: <https://www.goodwe.com/support-service/warranty-related>.

2 Compliance Declaration

2.1 European Declaration of Conformity

Equipment with wireless communication function that can be sold in the European market meets the following directive requirements:

- 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)

2.2 FCC

Federal Communications Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

ISED Canada RSS-Gen Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage ;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED Canada ICES-003 Compliance Label

This is only required if product is within ICES-003 scope and is not exempt: * Insert either "A" or "B", but not both, to identify the applicable Class of the device used for compliance verification."CAN ICES-3 (B)/NMB-3(B)"

RF Exposure Guidance Statement

For equipment used a specified distance (more than 5mm away from persons
In order to comply with ISED RF Exposure requirements, this device must be installed to

provide at least 20 cm separation from the human body at all times.

Afin de se conformer aux exigences d'exposition RF ISED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Lors de l'installation et du fonctionnement de cet équipement, la distance minimale entre le radiateur et le corps doit être de 20 cm.

2.3 Vulnerability Feedback Statement

Please send a detailed description of the product vulnerability to service@goodwe.com.

After receiving the vulnerability report, we will analyze it and reply to the customer within 7 days. After confirming the vulnerability, we will provide a vulnerability remediation plan within 30 days. After confirming the solution, we will carry out modification verification and push updates within 90 days.

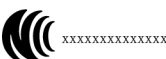
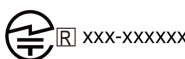
2.4 Telemetry Collection Statement

The device manufacturer will periodically collect telemetry information. Telemetry data is limited to a limited set of non-sensitive data generated during product use. The content of telemetry data includes abnormal event information and metric information, such as system alarm information, illegal operation records, and abnormal scalar metrics. It can help the device manufacturer's back-end technical team promptly identify and respond to system issues, reducing customer losses.

2.5 Service Period Statement

The device manufacturer undertakes to provide continuous updates and maintenance for software functions and security functions for a period of 5 years after product release.

2.6 Certification Marks

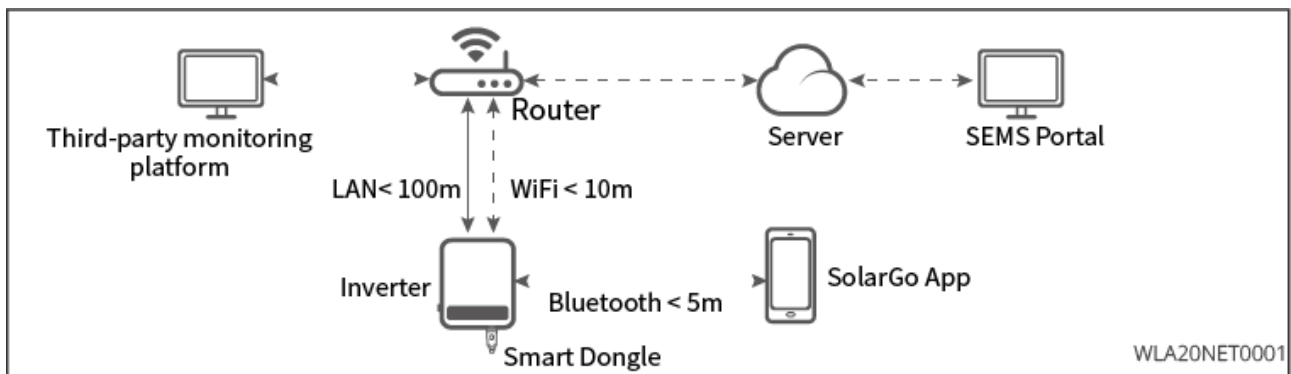
Symbols	Meaning	Symbols	Meaning
	CE Certification Mark.	 ANATEL Agência Nacional de Telecomunicações XXXXXX-XX-XXXXXX	ANATEL Certification Mark.
	RCM Certification Mark.		FCC Certification Mark.
	CSA Certification Mark.		KC Certification Mark.
	ICASA Certification Mark.		TAC Certification Mark.
	NCC Certification Mark.		MIC Certification Mark.
	NBTC Certification. This telecom device and equipment is conformed to requirement to NTC.	-	-

3 Product Introduction

3.1 Application Scenarios

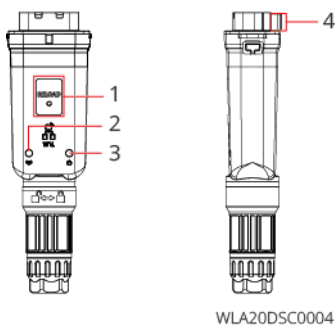
NOTE

- Use GoodWe SEMS to monitor the device. If a third-party monitoring platform is required, the platform must support the Modbus-TCP communication protocol.
- LAN mode is only applicable to WiFi/LAN Kit-20.

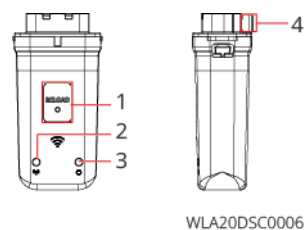


3.2 Component Introduction

WiFi/LAN Kit-20

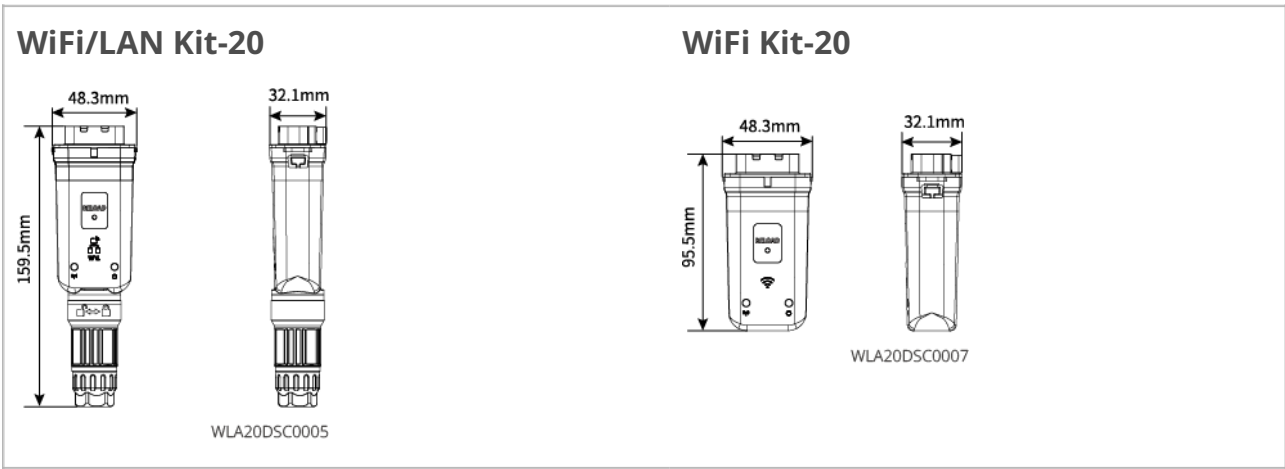


WiFi Kit-20



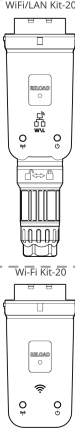
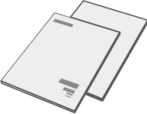
No.	Component	No.	Component
1	Reload button	2	Communication indicator
3	Power indicator	4	Unlock button

3.3 Dimensions



4 Installation

4.1 Accessory List

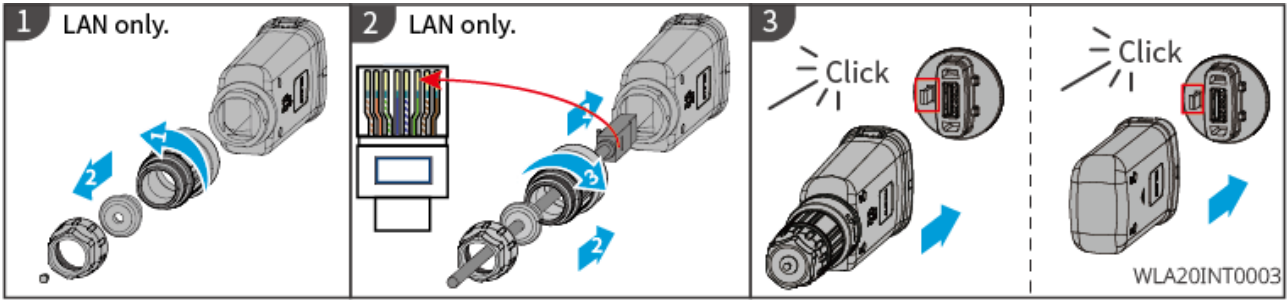
Component	Description	Component	Description
	Intelligent Communication Stick x1		Product Documentation x1

4.2 Installing the Communication Stick

NOTE

When installing and operating the Intelligent Communication Stick, the minimum distance between the radiator and the human body shall be 20 cm.

Steps 1/2 are only applicable to the LAN function of WiFi/LAN Kit-20.



5 Power On

Step 1: Power on the inverter, and the Intelligent Communication Stick will be powered on.

Step 2: Power on the router.

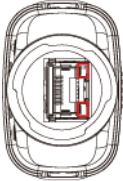
Step 3: Determine the operating status of the communication stick through the indicators. Please check both the indicators on the communication stick and the inverter side to determine the device operating status and communication status.

6 LED Indicator Description

NOTE

- If any operation is required on the Intelligent Communication Stick, observe the indicator status to confirm that device identification and connection have been completed.
- If the Bluetooth signal cannot be found, double-tap the Reload button to enable Bluetooth. The indicator changes to single flashing state. Please connect to the SolarGo app within 5 minutes; otherwise, Bluetooth will automatically turn off.
- Double-tapping the Reload button to enable Bluetooth is not applicable to communication sticks with serial number 72000WLA***.
- The single flashing state of the indicator appears only after double-tapping the Reload button to enable Bluetooth.

Indicator Light	Indicator Light Status	Description
		Steady on: The Intelligent Communication Stick is powered on.
		Off: The Intelligent Communication Stick is not powered on.
		Steady on: WiFi mode or LAN mode communication is normal.
		Single flashing: The Intelligent Communication Stick Bluetooth signal is enabled, waiting to connect to the SolarGo app.*
		Two flashes: The Intelligent Communication Stick is Not Connected to the router.
		Four flashes: The Intelligent Communication Stick is communicating normally with the router, but is Not Connected to the server.
		Six flashes: The Intelligent Communication Stick is identifying the connected device.
		Off: The Intelligent Communication Stick software is resetting or not powered on.

Indicator Light		Color	Status	Description
 WLA20DSC0008	LAN Port Communication Light	Green	Steady on	100Mbps wired network connection is normal.
			Off	- Ethernet cable is Not Connected. 100 Mbps wired network connection abnormal. 10 Mbps wired network connection normal.
		Yellow	Steady on	10/100 Mbps wired network connection normal, no communication data transmission or reception.
			Blinking	Communication data transmission/reception in progress.
			Off	Ethernet cable is Not Connected.

Button	Description
RELOAD	Short press for 1-3 seconds to restart the communication stick.
	Long press for 6-10 seconds to restore factory settings.
	Quickly double-click to enable the Bluetooth signal (lasts only 5 minutes).

7 Commissioning the Device via Solargo App

NOTE

- Ensure that the WiFi signal strength (RSSI) is higher than -60 dBm; it is recommended to maintain it at -50 dBm or above. If the signal strength is lower than -60 dBm, move the router closer to the device, remove obstacles, or add a repeater to improve the signal strength.
- When both the WiFi mode and LAN mode of the WiFi/LAN Kit-20 Intelligent Communication Stick are enabled, LAN mode is preferentially used for communication.
- The WiFi mode and LAN mode of the WiFi/LAN Kit-20 Intelligent Communication Stick cannot be disabled at the same time; otherwise, communication will fail.

Procedure for connecting to the App:

1. Download and install the SolarGo App. The interface may vary depending on the App version; please refer to the actual interface. Scan the QR code below to obtain the latest SolarGo App user manual.
2. Follow the prompts on the App interface to connect to the device via Bluetooth (WLA-*** or WFA-***).
3. When connecting to the device via Bluetooth for the first time, a Bluetooth pairing prompt will appear on the interface. Tap Pair to continue the connection and enter the login screen.
4. Log in to the App according to the actual role. The initial login password is 1234. For the first login, change the login password as prompted on the interface.
5. Tap "Home" > "Settings" > "Communication Configuration", and configure the device communication information according to the actual situation, such as enabling or disabling WLAN and setting up a network connection. For more details, refer to the "Configuring Communication" chapter in the SolarGo App user manual.



Procedure for changing the login password:

The login password used when the App connects to the device can be changed. After changing the password, keep it in mind. If you forget the password, contact the after-sales service center.

1. Connect the device to the SolarGo App, and log in according to the actual role.
2. Tap "Home" > "Settings" > "Change Login Password".
3. Enter a new password as required and save to change the login password.

Upgrade Firmware version procedure:

Supports upgrading the device firmware version through the App.

1. Connect the device to the SolarGo App, and log in according to the actual role.
2. Tap "Home" > "Settings" > "Device Information".
3. When the Device Information screen prompts that a version is available for update, complete the update according to the on-screen prompts.

8 Device Commissioning and Plant Monitoring via SEMS+ App

SEMS+ App is a piece of software used for remote plant monitoring or local device commissioning. It supports installers or owners:

- Remotely monitor the operating status of the plant and set operating parameters for the plant and devices.
- Connect to devices via Local Access, view device operating status, and set device parameters.

NOTE

- Configure device-related parameters or view device operating parameters, alarms, and other information via the SEMS+ App.
- Supports viewing signal strength via the App. As shown in the figure on the right, 4 bars indicate signal strength . Please ensure that the WiFi signal strength remains at 3 bars or above. When the signal strength is below 3 bars, move the router closer to the device, remove obstacles, or add a repeater to improve the signal strength.
- When both the WiFi mode and LAN mode of the WiFi/LAN Kit-20 Intelligent Communication Stick are enabled, LAN mode is preferentially used for communication.
- The WiFi mode and LAN mode of the WiFi/LAN Kit-20 Intelligent Communication Stick cannot be disabled at the same time; otherwise, communication will fail.

Local Access App Operation Steps

1. Download and install the SEMS+ App. The interface may vary depending on the App version; the actual interface shall prevail. Scan the QR code below to obtain the latest App user manual.
2. After registering an account and logging in to the App, go to the Local Access device interface via "Service" > "Connect". Follow the on-screen prompts to connect to the device via Bluetooth (WLA-***/WFA-***).
3. When connecting to the device via Bluetooth for the first time, a Bluetooth pairing prompt will appear on the interface. Tap Pair to continue the connection and enter

the login screen.

4. When logging in for the first time, enter the initial login password to log in and change the password as prompted by the interface. Initial login password: 1234.



SEMS+ App



SEMS+ App User Manual

Upgrade Firmware Version Operation Steps

Supports upgrading the device firmware version through the App.

Method 1:

1. Log in to the SEMS+ App.
2. Go to the device details screen and tap  to enter the device upgrade screen. If there is a version available for upgrade, complete the update according to the on-screen prompts.

Method 2:

1. Log in to the SEMS+ App.
2. Go to the device upgrade screen via "Service" > "Local Access" > "Settings" > "O&M Parameters" > "Firmware Upgrade". If there is a version available for upgrade, complete the update according to the on-screen prompts.

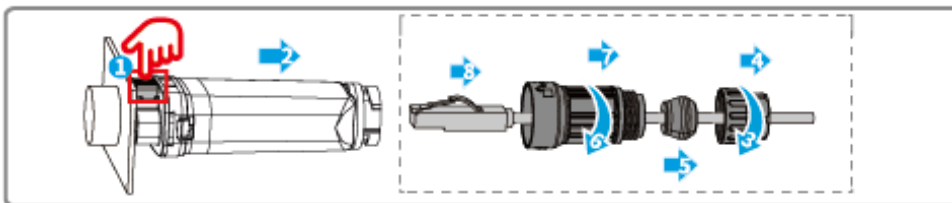
9 Replacing the Device

NOTE

- Some inverters do not support hot swapping. Power off before replacing the Communication Stick.
- When the Intelligent Communication Stick or inverter is performing a firmware upgrade, do not remove the Intelligent Communication Stick; otherwise, the upgrade may fail.

Procedure:

1. Prepare a new device before replacement.
2. Remove the device from the inverter.
3. Install the new device.



WLA20INT0004

10 Troubleshooting

No.	Fault	Solution
1	Unable to search for WFA-** or WLA-**	1. Ensure that the Intelligent Communication Stick on the inverter is properly powered, and the blue signal indicator is flashing or steadily on. 2. Ensure that the Intelligent device is within the communication range of the Intelligent Communication Stick. 3. Refresh the device list in the App again. 4. Restart the inverter. 5. Quickly double-click the Reload button to enable the Bluetooth signal. 6. Ensure that no other Intelligent devices are connected to WFA-**/WLA-**.
2	Unable to connect to WFA-** or WLA-**	1. Ensure that Bluetooth pairing is successful. 2. Restart the inverter and reconnect to WFA-**/WLA-**. 3. Unpair from WFA-**/WLA-** in the Bluetooth settings of the mobile phone, and then reconnect through the App.
3	Unable to find the router SSID	1. Place the router close to the Intelligent Communication Stick, or add a WiFi repeater to enhance the WiFi signal. 2. Reduce the number of devices connected to the router. 3. Confirm whether the router is a 2.4 GHz router.

No.	Fault	Solution
4	After all configurations are complete, the Intelligent Communication Stick fails to connect to the router.	1. Restart the inverter. 2. Check whether the network name, encryption mode, and password in the WiFi configuration are the same as those of the router. 3. Restart the router. 4. Place the router close to the Intelligent Communication Stick, or add a WiFi repeater to enhance the WiFi signal.
5	After all configurations are complete, the Intelligent Communication Stick fails to connect to the server.	Restart the router and inverter.

11 Technical Specifications

11.1 WiFi/LAN Kit-20

Model	WiFi/LAN Kit-20
Device Management	
Maximum Number of Device Connections	1
Power Supply Parameters	
Input Voltage (V)	5
Power Consumption (W)	≤3
Communication Interface	USB
Communication Parameters	
Ethernet	10M/100Mbps Adaptive
Wireless	IEEE 802.11 b/g/n@2.4 GHz
Maximum Wireless Transmit Power	<20dBm
Wireless Broadband	20/40MHz
Wireless Working Mode	STA
Bluetooth	Bluetooth V4.2
Mechanical Parameters	
Dimensions (W x H x T mm)	48.3*159.5*32.1
Weight (g)	82
Indicator Light	LED*2
Mounting Method	USB Port Insertion/Removal
Environmental Parameters	

Model	WiFi/LAN Kit-20
Operating Temperature Range (°C)	-30~+60
Storage Temperature Range (°C)	-40~+70
Relative Humidity	0-95%
Ingress Protection Rating	IP65
Max. Operating Altitude (m)	4000

11.2 WiFi Kit-20

Model	WiFi Kit-20
Device Management	
Maximum Number of Device Connections	1
Power Supply Parameters	
Input Voltage (V)	5
Power Consumption (W)	≤3
Communication Interface	USB
Communication Parameters	
Wireless	IEEE 802.11 b/g/n@2.4 GHz
Maximum Wireless Transmit Power	<20dBm
Wireless Broadband	20/40MHz
Wireless Working Mode	STA
Bluetooth	Bluetooth V4.2
Mechanical Parameters	
Dimensions (W x H x T mm)	48.3*95.5*32.1

Model	WiFi Kit-20
Weight (g)	54
Indicator Light	LED*2
Mounting Method	USB Port Insertion/Removal
Environmental Parameters	
Operating Temperature Range (°C)	-30~+60
Storage Temperature Range (°C)	-40~+70
Relative Humidity	0-95%
Ingress Protection Rating	IP65
Max. Operating Altitude (m)	4000

12 Contact Information

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