SDongleA-05 Quick Guide (WLAN-FE)

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NOTICE

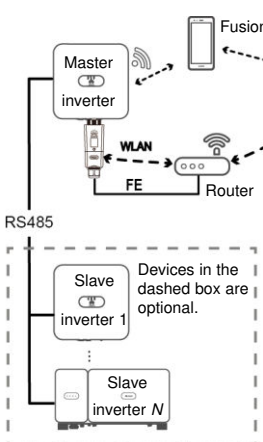
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- SDongleA-05 (Dongle for short) is a smart communications expansion module that works with Huawei inverters to implement communication between inverters and the management system using WLAN or FE.
- A Dongle can be used for device cascading using RS485 communication (inverter cascaded or inverters cascaded with other devices). A maximum of 10 devices can be cascaded.
- When multiple inverters are cascaded, only one Smart Dongle or one SmartLogger is allowed.

Application Scenario of the SUN2000-(3KTL–20KTL) As the Master Inverter

1 Communication Scenario

NOTE
- Inverters with different appearances are used in the same communication scenario. The inverters in this document are used as an example.
- In the communications scenario, ensure that the wireless network of the inverter and router is not disturbed and that the signal is normal.



Number of devices in the RS485 communication scenario

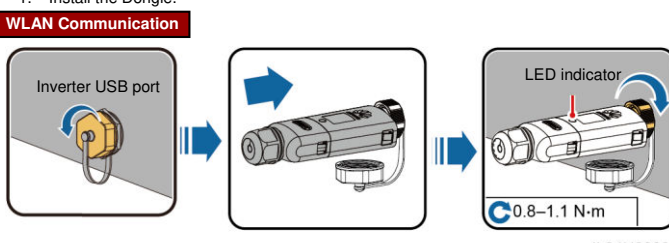
Limited Number	Actual Number	
Maximum number of devices that can be connected to the Dongle	**Number of slave inverters**	**Number of other devices (such as Smart Power Sensor and energy storage devices)**
10	N ≤ 9	≤ 9 – N

In the RS485 cascading communication networking, the slave inverter model can be SUN2000-(3KTL–20KTL)-M0, SUN2000-50KTL/60KTL-M0, SUN2000-29.9KTL/36KTL, SUN2000-33KTL-A.

2 Installation and Commissioning

1. Install the Dongle.

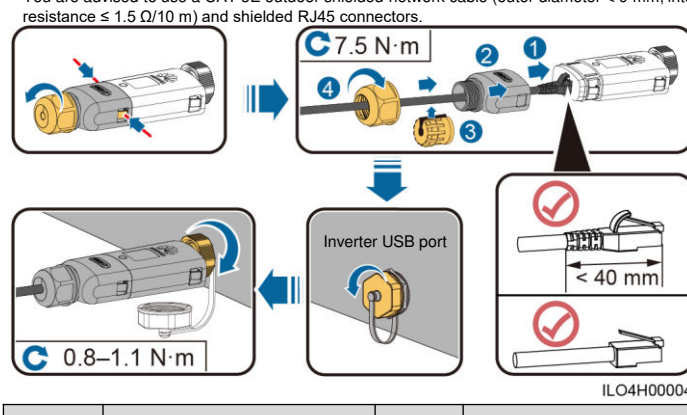
WLAN Communication



IL04H00005

FE Communication

You are advised to use a CAT 5E outdoor shielded network cable (outer diameter < 9 mm; internal resistance ≤ 1.5 Ω/10 m) and shielded RJ45 connectors.



ILO4H00004

Operation	LED		Remarks	Description
	Color	Status		
Installing the Dongle	N/A	Off	Normal	The Dongle is not secured or is not powered on.
	Yellow (blinking green and red simultaneously)	Steady on		The Dongle is secured and powered on.
	Red	Blinking at short intervals (on for 0.2s and then off for 0.2s)		The parameters for connecting to the router are to be set.
	Red	Steady on	Abnormal	The Dongle is faulty. Replace the Dongle.
	Blinking red and green alternatively	Blinking at long intervals (on for 1s and then off for 1s)		No communication with the inverter • Remove and insert the Dongle. • Check whether inverters match the Dongle. • Connect the Dongle to other inverters. Check whether the Dongle or the USB port of the inverter is faulty.

NOTICE

Before setting parameters, ensure that the AC and DC side of the inverter has been powered on.

2. Install the FusionSolar app (2.5.0 or later) and perform **Setup Wizard**. For details, see the corresponding *FusionSolar App Quick Guide*. You can download the document by scanning the **Quick Guide** QR code. If the operation has been performed, ignore it.

- Method 1: Search for **FusionSolar** in Google Play and install the app.
- Method 2: Scan the QR code to download and install the app.

FusionSolar | **Google Play** | **Quick Guide**

Operation	LED Indicator		Remarks	Description
	Color	Status		
Router connection settings	Green	Blinking at long intervals (on for 0.5s and then off for 0.5s)	Normal	Connecting to the router
	Red	Blinking at short intervals (on for 0.2s and then off for 0.2s)	Abnormal	Failed to connect to the router. Check whether the parameters for connecting the Dongle to the router are properly set. If not, set the parameters correctly.
Management system settings	Green	Steady on	Normal	Successfully connected to the management system.
	Red	Blinking at long intervals (on for 1s and then off for 1s)	Abnormal	Failed to connect to the management system. Check whether the parameters for connecting inverters to the management system are properly set. If not, set the parameters correctly.
	Green	Blinking at short intervals (on for 0.2s and then off for 0.2s)	Normal	The inverter is communicating with the management system through the Dongle.

NOTE
- In areas (such as the UK) where the FusionSolar app is not available, or when a third-party management system is used, only the SUN2000 app can be used for commissioning. This document uses the FusionSolar app as an example to describe the commissioning method. For the SUN2000 app, perform operations as required.
- To obtain the SUN2000 App, scan the QR code or search for “SUN2000” in Huawei AppGallery, download the latest installation package, and install the SUN2000 app by following the instructions. The SUN2000 app version should be 3.2.00.002 (Android) or later.

Performance Parameters

Model on the Nameplate	SDongleA-05
Maximum Number of Devices	10 (Inverters are connected with each other over RS485.)
Network Port	10/100M Ethernet port
Encryption Mode	Not encrypted, WPA, WPA2, WPA/WPA2
Installation Mode	Plug-and-play (applicable to inverters only)
Indicator	LED
Dimensions (W x H x D)	146 mm x 48 mm x 33 mm
Net Weight	90 g
Ingress Protection Rating	IP65
Typical Power Consumption	2.5 W
Standard and Frequency Band	802.11b, 802.11g, 802.11n 2.412 GHz to 2.484 GHz
Operating Temperature	–30ºC to +65ºC
Relative Humidity (Non-condensing)	5%–95% RH
Storage Temperature	–40ºC to +70ºC
Highest Altitude	4000 m