SDongleA-05 Smart Dongle Quick Guide (WLAN-FE)

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NOTICE

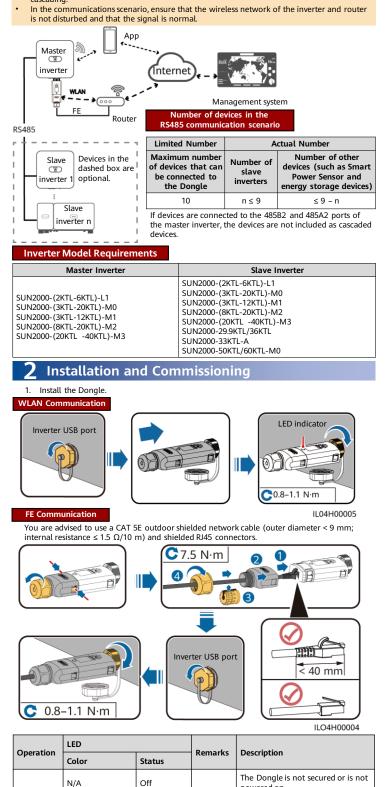
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- SDongleA-05 (Dongle for short) is a smart communications expansion module that works SDongleA-05 (Dongle for short) is a smart communications expansion module that works with Huawei inverters to implement communication between inverters and the management 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. If cascaded inverters include a single-phase inverter or are connected to batteries, a maximum of three inverters can be cascaded. When multiple inverters are cascaded, only one Smart Dongle or one SmartLogger is allowed.

Communication Scenario

D NOTE

- Inverters with different appearances are used in the same communication scenario. The inverters in this document are used as an example. In the networking, the inverter where the Dongle is installed is the master inverter, and other inverters are slave inverters. Slave inverters can communicate with the Dongle through careeding. cascading.



	Installing the Dongle	Red	intervals (on for 0.2s and then off for 0.2s)		The parameters for connecting to the router are to be set.
	5	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.

Normal

Steady on

Blinking at

NOTICE

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

Install the FusionSolar app. Perform the Setup wizard operations. If you have performed such operations, skip this step. If not, you can scan the QR code below to obtain the app quick guide which describes the Setup wizard operations.

Yellow (blinking

green and red simultaneously)



powered on.

on.

The Dongle is secured and powered



	LED Indicator				
Operation	Color	Status	Remarks	Description	
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.	
	Green	Steady on	Normal	Successfully connected to the management system.	
Management system settings	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.	

D 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 p



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	-30°C to +65°C			
Relative Humidity (Non- condensing)	5%-95% RH			
Storage Temperature	-40°C to +70°C			
Highest Altitude	4000 m			

Obtaining Documentation

NOTE

You can obtain the latest version of this document by scanning the following QR codes.



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