SDongleA-03 Quick Guide (4G)

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SDongleA-03 Smart Dongle (the "Dongle" for short) is a smart communications expansion module that works with Huawei inverters to implement wireless communication between inverters and management systems through the 4G network. When multiple inverters are cascaded, only one Dongle or one SmartLogger is allowed.

Communication Scenario



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SUN2000-196KTL-H0

The SUN2000-2KTL/3KTL/4KTL/5KTL-L0 does not support inverter cascading.

Number of Devices Required for Networking

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 power meters and energy storage devices)
10	<i>N</i> ≤ 9	≤ 9 - <i>N</i>
2	<i>N</i> ≤ 1	≤ 1 - <i>N</i>

SUN2000-196KTL-H0

NOTE

The number of devices that can be cascaded varies with the Dongle model. You can view the maximum number of devices that can be connected to the Dongle from the label on the external package.

2 Installation and

1. Install a SIM card.

NOTE

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- You need to prepare a standard SIM card (size: 25 mm x 15 mm; capacity: ≥ 64 KB). When connecting to Huawei FusionSolar Smart PV Management System, prepare a SIM card based on the traffic requirements in the following table. Before installing a SIM card, you need to remove the Dongle from an inverter.



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Install the Dongle LED E F



Log in to the app using the installer account, and tap Setup Wizard to create a PV plant. 5. For details, see the FusionSolar App Quick Guide.



You can obtain SIM card parameters from the SIM card carrier. For details about how to use the FusionSolar app, scan the QR code to obtain related documentation. To create multiple installer accounts for the same company, log in to the FusionSolar app and tap New User.

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Color	Status	Remarks	Description	
N/A	Off		The Dongle is not secured or is not powered on.	
Yellow (blinking green and red simultaneously)	Steady on	Normal	The Dongle is secured and powered on.	
Green	Blinking in a 2-second	Normal	Dialing (duration < 1 min)	
	cycle (on for 0.1s and then off for 1.9s)	Abnormal	If the duration is longer than 1 min, the 4G parameter settings are incorrect. Reset the parameters.	
	Blinking at long	Normal	The dial-up connection is set up successfully (duration < 30s).	
	intervals (on for 1s and then off for 1s)	Abnormal	If the duration is longer than 30s, the settings of the management system parameters are incorrect. Reset the parameters.	
	Steady on		Successfully connected to the management system.	
	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.	
Red	Steady on		The Dongle is faulty. Replace Dongle.	
	Blinking at short intervals (on for 0.2s and then off for 0.2s)		The Dongle has no SIM card or the SIM card is in poor contact. Check whether the SIM card has been installed or is in good contact. If not, install the SIM card or remove and insert the SIM card.	
	Blinking at long intervals (on for 1s and then off for 1s)	Abnormal	The Dongle fails to connect to the management system because it has no signals, weak signals, or no traffic. If the Dongle is reliably connected, check the SIM card signal through the app. If no signal is received or the signal strength is weak, contact the carrier. Check whether the tariff and traffic of the SIM card are normal. If not, recharge the SIM card or buy traffic.	
Blinking red and green alternatively	Blinking at long intervals (red for 1s and green 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.	
	Blinking at short intervals (red for 0.2s and green for 0.2s)	Normal	The Dongle is being upgraded locally.	

Performance Parameters

Basic Parameters

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Installation Mode	Plug-and-play (applicable to inverters only)	SIM Card Type	Standard SIM cards (25 mm x 15 mm)
Indicator	LED	Typical Power Consumption	3.5 W
Dimensions (W x H x D)	130 mm x 48 mm x 33 mm	Operating Temperature	-30°C to +65°C
Net Weight	90 g	Relative Humidity	5% RH to 95% RH
Ingress Protection Rating	IP65	Storage Temperature	-40°C to +70°C

Standard and Frequency Band

	LTE FDD: B1, B3, B8
	LTE TDD: B38, B39, B40, B41
SDongleA-03-CN	DC-HSPA+/HSPA+/HSPA/UMTS: B1, B5, B8, B9
5	TD-SCDMA: B34, B39
	GSM/GPRS/EDGE: 900 MHz, 1800 MHz
	LTE FDD: B1, B3, B7, B8, B20
CD and a 02 FU	LTE TDD: B38, B40
SDongleA-03-EU	WCDMA/HSDPA/HSUPA/HSPA+: B1, B8
	GSM/GPRS/EDGE: 900 MHz, 1800 MHz
	LTE FDD: B1, B2, B3, B4, B5, B7, B8, B28
CD	LTE TDD: B40
SDongleA-03-AU	WCDMA: B1, B2, B5, B8
	GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz
	LTE FDD: B1, B3, B8, B18, B19, B26
SDongleA-03-JP	LTE TDD: B41
-	WCDMA: B1, B6, B8, B19
CD - wala A 02 KD	LTE FDD: B1, B3, B5, B7
SDongleA-03-KR	WCDMA: B1

4 Obtaining Documentation

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

