SDongleB-06 Smart Dongle Quick Guide (4G)



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NOTICE

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statemen information, and recommendations in this document do not constitute a warranty of any kind, express or implied. SDongleB-06 Smart Dongle (also referred to as the Dongle) is a smart communications

- expansion module that works with Huawei inverters to implement wireless communication between inverters and the management system through the 4G network.

 If multiple inverters are cascaded, use either a Dongle or a SmartLogger for networking. You
- use two networking methods at the same time. Communication Scenario

RS485 Communication

Slave inverter 1 Slave Арр Master inverter inverter n Management RS485 system 4@ - **→**(Internet) • Devices in the dashed box are Dongle Base station IL04P00007 optional. NOTE

Maximum Number of Devices That Can Be Connected to the Dongle

- 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 cascading. This document uses connection to Huawei FusionSolar Smart PV Management System as an example. For details about connection to a third-party management system, see the user manual. For details about Dongle performance parameters and supported inverter models, see the user manual.
- Number of Devices Required for Networking Limit Actual Number



Number of Non-Inverter Devices
(Such as Power Meters)

can be connected to the bongte		. De comicetta to the Dongte		(Such as Forest Micros)			
ĺ	10	10	n ≤ 9	≤ 9 – n			
		3 (with energy storage systems)	n ≤ 2	≤ 2 – n			
l		3 (with single-phase inverters)	n ≤ 2	≤ 2 – n			
	2	2	n ≤ 1	≤ 1 - n			
 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. 							

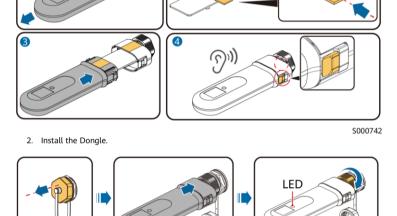
Number of Slave

- If devices are connected to the RS485-2, RS485_2, or 485B2 and 485A2 ports of the master inverter, the devices are not included as cascaded devices. Installation and Commissioning Install a SIM card.
- NOTE 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 data requirements in the following table. Before installing a SIM card, you need to remove the Dongle from an inverter.

- Data Capability Recomm ended Monthly Requirement Plan for the SIM Card Without a power 15 MB + 4 MB x Number of inverters meter or energy Device performance storage system
 - data can be updated With a power 15 MB + 7 MB x Number of inverters

Inverters	meter 15 MB + 7 MB x Number of inverters		every 5 minutes.	
	With energy storage system	18 MB + 7 MB x Number of inverters + 5 MB x Number of DC-DC converters	The Dongle logs, inverter logs, and I-V diagnosis data can be exported once a month.	
	With a power meter and energy storage system	18 MB + 7 MB x Number of inverters + 5 MB x Number of DC-DC converters	The Dongle and inverters can be upgraded once a month.	
With opti	mizers	Inverter data usage + 2 MB + 0.2 MB x Number of Smart PV Optimizers		
Fu SI • In	the inverter is conne usionSolar Smart PV M card is 14 MB + 1 China, a SIM card w	cted to both the poverty alleviation mon Management System, the recommended 9 MB x Number of inverters. ith a maximum data plan of 100 MB is p mum you are advised to purchase a SIM	monthly data plan of the provided. If the calculated	

- data exceeds the maximum, you are advised to purchase a SIM card by yourself. The following are examples of recommended monthly data plans for a SIM card to be used with the FusionSolar Smart PV Management System:
 If two inverters and a power meter are installed, the recommended monthly data plan is 15 MB + 7 MB x 2 = 29 MB.
 If one inverter and two energy storage systems are installed, the recommended monthly data plan is 18 MB + 7 MB x 1 + 5 MB x 2 = 35 MB.
 If one inverter, two two energy storage systems, and 10 optimizers are installed, the recommended monthly data plan is 35 MB + 2 MB + 0.2 MB x 10 = 39 MB.



You can obtain SIM card parameters from the SIM card carrier. For more details about how to use the app, scan the QR code to obtain related documents.

To create multiple installer accounts for a company, log in to the app and then tap

NOTE

Add user.

Off

Steady on

Steady on

LED

Color

Yellow

Green



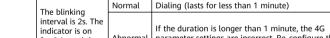
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FusionSolar App

The Dongle is not secured or not powered on.

The Dongle is secured and powered on.

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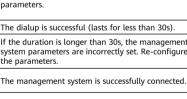


Description

Remarks

Normal

Abnormal parameter settings are incorrect. Re-configure the for 0.1s and then off for 1.9s. parameters. The dialup is successful (lasts for less than 30s). Blinking slowly If the duration is longer than 30s, the management system parameters are incorrectly set. Re-configure (on for 1s and then off for 1s) Abnormal the parameters.



		1				
	Blinking fast (on for 0.2s and then off for 0.2s)	Normal	The inverter is communicating with the management system through the Dongle.			
	Steady on	Abnormal	The Dongle is faulty. Replace the Dongle.			
	Blinking fast (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 a SIM card or remove and re-insert the SIM card.			
Red	Blinking slowly (on for 1s and then off for 1s)		The Dongle fails to be connected to a management system because the SIM card has poor or no reception, or has run out of mobile data. If the Dongle is reliably connected, check the SIM card connectivity through the app. If you have poor or no reception, contact the carrier. Check whether the tariff and mobile data plan of the SIM card are adequate. If not, ensure sufficient balance in the SIM card or purchase a data package.			
Blinking red and green alternately	Blinking slowly (red for 1s and green for 1s)		No communication with the inverter Remove and then insert the Dongle. Check whether the inverter matches the Dongle. Connect the Dongle to another inverter. Check whether the Dongle or the USB port of the inverter is faulty.			
utternutety	Blinking fast (red for 0.2s and then green for 0.2s)	Normal	The Dongle is being upgraded locally.			
4. Commission the inverter locally via the Smart Dongle WLAN. If the Smart Dongle WLAN is disabled, log in to the FusionSolar app and tap the plant name on the Home screen to access the plant screen. Tap Devices and then tap SDongleB-06. Choose O&M Authorization > WLAN wakeup > Confirm to enable the Smart Dongle WLAN.						
NOTE If the inverter has a built-in WLAN module, the Smart Dongle WLAN is disabled by default. If the inverter does not have a WLAN module, the Smart Dongle WLAN is enabled by default.						
<	xxxxxxxxxx		· Congle 3			
All Inverter(6) Dongle(1) Device name Dong						
SDongle SN Device ty	-Clm	Running	Device type Dongle Device Replacement			
	Expiration Date-/-/-		O&M Authoriz			
ES2240112180 Run		Running	Parameter se			

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Obtaining Documentation



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O&M Authorization

WLAN wakeup

Cancel



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