SDongleA-03 Quick Guide (4G)

Document Issue: 10
Part Number: 31509550
Release Date: 2020-08-15

NOTICE

1 Communication Scenario

RS485 communication scenario
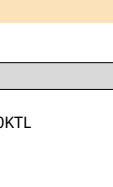

IL04M00005
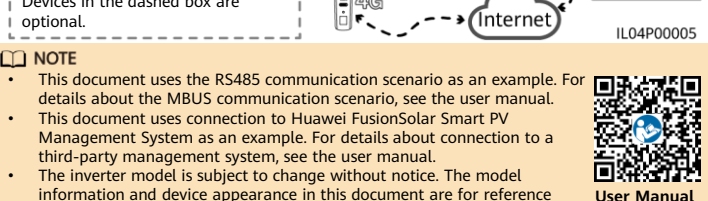
NOTE
• This document uses the RS485 communication scenario as an example. For details about the RS485 communication scenario, see the user manual.
• This document uses connection to Huawei FusionSolar Smart PV Management System as an example. For details about connection to a third-party management system, see the user manual.
• The inverter model is subject to change without notice. The model information and device appearance in this document are for reference only. For more details, see the user manual.

User Manual

Inverter Model Requirements

Master Inverter	Slave Inverter
Inverters with a built-in WLAN: SUN2000-2KTL/3KTL/4KTL/5KTL-L0 SUN2000-(3KTL-20KTL)-M series Inverters without a built-in WLAN: SUN2000-50KTL-JPM1 SUN2000-50KTL/63KTL-JPM0 SUN2000-50KTL/60KTL/65KTL-M0 SUN2000-70KTL/75KTL-C1 (optional) SUN2000-70KTL/100KTL-INM0 SUN2000-100KTL-M1 SUN2000-100KTL/110KTL/125KTL-M0 SUN2000-175KTL-H0 SUN2000-185KTL-INH0 SUN2000-185KTL-H1 SUN2000-196KTL-H0	SUN2000-(3KTL-20KTL)-M series SUN2000-29.9KTL/36KTL/42KTL/50KTL SUN2000-33KTL-A SUN2000-33KTL/40KTL-JP SUN2000-43KTL-IN-C1 SUN2000-50KTL/70KTL/75KTL-C1 SUN2000-50KTL/63KTL-JPM0 SUN2000-50KTL-JPM1 SUN2000-50KTL/60KTL/65KTL-M0 SUN2000-70KTL/100KTL-INM0 SUN2000-100KTL-M1 SUN2000-100KTL/110KTL/125KTL-M0 SUN2000-175KTL-H0 SUN2000-185KTL-INH0 SUN2000-185KTL-H1 SUN2000-196KTL-H0

NOTE
The SUN2000-(3KTL/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	*N* ≤ 9	≤ 9 – *N*	
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.
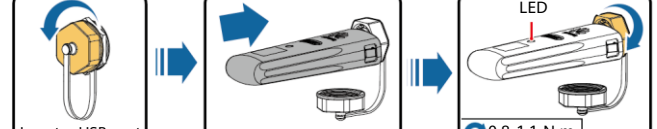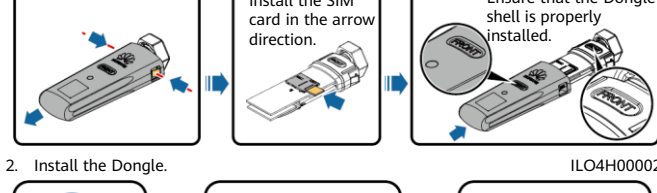
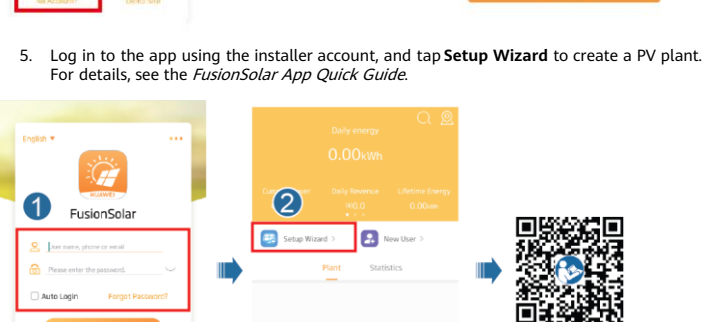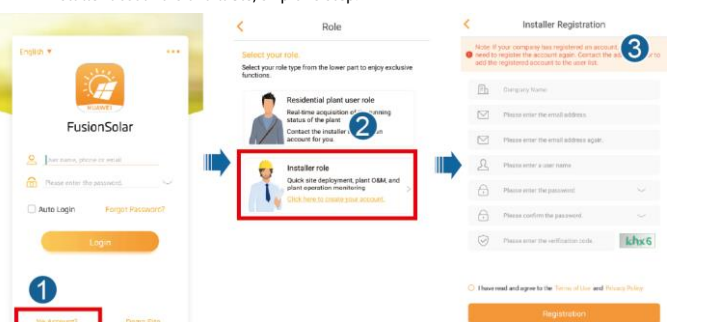## 2 Installation and Commissioning

1. 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 traffic requirements in the following table.
• Before installing a SIM card, you need to remove the Dongle from an inverter.

Recommended Monthly Traffic for SIM Card Purchases		Traffic Support
Inverters	10 MB + 4 MB x Number of inverters	• Device performance data can be refreshed every 5 minutes. • The Dongle logs, inverter logs, and IV diagnosis data can be exported monthly. The Dongle and inverters can be upgraded online.
With power meters or Smart Power Sensors	3 MB x Number of power meters or Smart Power Sensors	
With weather stations	3 MB x Number of weather stations	
With Smart PV Optimizers	2 MB + 0.2 MB x Number of Smart PV Optimizers	

Install the SIM card in the arrow direction.

Ensure that the Dongle shell is properly installed.

2. Install the Dongle.

IL04N00002

Inverter USB port

LED

0.8–1.1 N·m

IL04H00001

3. Install the FusionSolar app (2.5.7 or later).
   • Method 1: Search for FusionSolar in Google Play and install the app.
   • Method 2: Scan the QR code to download and install the app.

4. Register an installer account if you do not have one. If an installer account is available, skip this step.

FusionSolar APP

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

FusionSolar App Quick Guide

NOTE
• 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**.

LED		Remarks	Description
Color	Status		
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 cycle (on for 0.1s and then off for 1.9s)	Normal	Dialing (duration < 1 min)
		Abnormal	If the duration is longer than 1 min, the 4G parameter settings are incorrect. Reset the parameters.
	Blinking at long intervals (on for 1s and then off for 1s)	Normal	The dial-up connection is set up successfully (duration < 30s).
		Abnormal	If the duration is longer than 30s, the settings of the management system parameters are incorrect. Reset the parameters.
	Steady on	Normal	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)	Normal	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 alternately	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.

3 Performance Parameters

Basic Parameters

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

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

4 Obtaining Documentation

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

中文	English	Deutsch	Français
Español	**日本語**	**Türkçe**	**Português**
한국어	**Italiano**	**Nederlands**	