SDongleA-03 Quick Guide (4G)

2 or 10 (for the Dongle

FusionSolar app

(l) M.

Document Issue: 01 Part Number: 31500AGW Release Date: 2019-01-02 Copyright © Huawei Technologies Co., Ltd. 2019. All rights reserved.



10

10

Device performance data can be

diagnosis data can be exported

Ensure that the Dongle

be upgraded monthly

refreshed every 5 minutes. The Dongle logs, inverter logs, and IV

monthly. The Dongle and inverters can

10

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 statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied. 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

- that works with Huawei inverters to implement wheleas communication between inverters and management systems through the 4G network.

 For details about Huawei inverters working with the Dongle, see the corresponding inverter manuals. This document describes how to use the Dongle in a typical application scenario. The Smart Dongle can be used for the RS485 device cascading (inverter cascading with the burnish.)
- The Shall burgle can be used for the roses of device state of the case along of the case along of the type of the Dongle. In actual communication scenarios, the number of inverters supported depends on the inverter features. For details, see the corresponding inverter manuals.
- SDongleA-03-EU SDongleA-03-AU SDongleA-03-JP SDongleA-03-KR SDongleA-03-CN **Dongle Model**

10

Devices	specifications)		.0		
Remarks Information about a device to which the Dongle is connected car from the external package label.		onnected can b	e viewed		
Application Scenarios of Distributed Smart Inverters					
1 Communication Scenario					

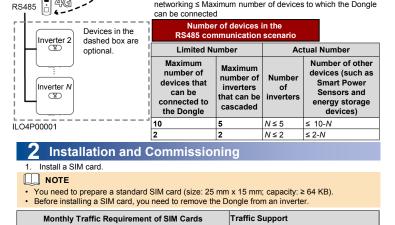
Maximum Number

Currently, the Dongle can work with the following inverters: SUN2000-3KTL-M0, SUN2000-4KTL-SUN2000-5KTL-M0, SUN2000-6KTL-M0, SUN2000-8KTL-M0, SUN2000-10KTL-M0, SUN2000-12KTL-M0, SUN2000-2KTL-L0, SUN2000-3KTL-L0, SUN2000-4KTL-L0, and SUN2000-5KTL-L0. The models may be subject to change. Please refer to the inverter manuals.

NOTE Inverters with different appearances are used in the same communication scenario. The inverters in this document are used as an example.

Inverter 1 Œ

Management system (Internet N + Other devices in the RS485 cascading communication networking ≤ Maximum number of devices to which the Dongle 4G



Optimizers Optimizers With Smart Power 3 MB x Number of Smart Power Sensors

Sensors

With Smart PV

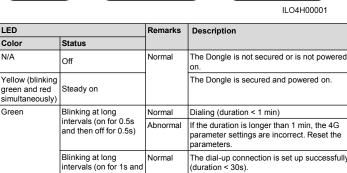
Inverters

Install the SIM card in the arrow shell is properly installed. direction.

10 MB + 4 MB x Number of inverters

2 MB + 0.2 MB x Number of Smart PV

2	. Install the Dongle.				ILO4H00002
	nverter USB port			LED 0.8–1.1	N-m ILO4H00001
LE	D	Remarks	Descripti	ion	



				parameters.	
	intervals (on for 1s and		Normal	The dial-up connection (duration < 30s).	is set up successfully
	then off for	1s)	Abnormal	If the duration is longer the management syste incorrect. Reset the par	
	Steady on		Normal	Successfully connected system.	to the management
	Blinking at intervals (cand then or	n for 0.2s		The inverter is commun management system th	
Red	Steady on		Abnormal	The Dongle is faulty. R	eplace Dongle.
	Blinking at short intervals (on for 0.2s and then off for 0.2s)			The Dongle has no SIM in poor contact. Check has been installed or is install the SIM card or r SIM card.	in good contact. If not,
	Blinking at intervals (o then off for	n for 1s and		system because it has	the signal strength is er. Check whether the IM card are normal. If
Blinking red and green alternatively	Blinking at intervals (o then off for	n for 1s and		 Connect the Dongl 	the Dongle. erters match the Dongle. e to other inverters. Dongle or the USB port
3. Install the FusionSolar app (2.2.0 or later) and perform Quick settings and Add Plant. For details, see FusionSolar App Quick Guide. If the operation has been performed, ignore it. Method 1: Search for FusionSolar in Google Play or App Store and install the app. Method 2: Scan the QR code to download and install the app.					
FusionSolar App Quick Guide			FusionSolar APP		
同報表表的		HUA	WEI	Android	ios
If you need to set or modify 4G parameters, run FusionSolar, tap to set the parameters using Local commissioning tool.					

The following describes how to set the FusionSolar app (2.2.0) on the iOS UI. The setting method is the same as that used on the Android OS UI, but the UI display is slightly different. The site UI shall

å

Management System

0

(M) (3)

Initial password: 00000a

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

×≡Ì ! ≣ шl all

يالإ

السٰ≍

يالإ

يال

all

NOTE

0

Connect to the inverter WiFi. Initial password:

Scan the QR code at the bottom of the label to check to the inverter WiFi.

||| X

ياك

₩ IIII ×

يالإ

SIM Card

APN access point

Inverter 1

4Ġ

Inverter 2

Inverter N

Devices in the dashed

box are

optional.

verter parameters at ocal router using the

SUN2000 app.

٠.

RS485

PIN

NOTE

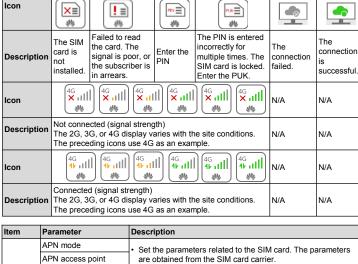
APN access number APN user name APN user password

UK 📄

gle.

Changeme

ألت الله ull 4G **1⊬ .11**| ^{4G} ₁┃┃ atH ×



when APN mode is set to Automatic by default, APN access point, APN access number, APN user name, and APN user password are not displayed. When APN mode is set to Manual, APN related parameters are displayed. You can set

system

Actual Number

Deploy plants in a remote anagement system using the

FusionSolar app.

Number of other devices

(such as power meters and energy storage

ILO4N00002

N + Other devices in the RS485 cascading communication

networking ≤ Maximum number of devices to which the

Number

 You can also set parameters on the 4G pages using the FusionHome app. The setting method is the same as that used on the FusionSolar app. To obtain the FusionHome App, scan the QR code or search for FusionHome in App Store or Google play to download and install the app. The app version is 2.1.11.316 or later. 			
FusionHome	iOS 回 (本) (本) (本) (本) (本) (本) (本) (本)	Andriod	
Application Scen	ario of Comm	ercial Smart Inv	verters
1 Communication	Scenario		
Inverter 15>	JN2000 app	Manage	ment

Internet - -

Dongle can be connected

Number of devices in the RS485 c

the parameters.



Install the Dongle.

Limited Number

Maximum number

of devices that can be connected

the SUN2000 App Before setting parameters, ensure that the following conditions are met: 1. To obtain the SUN2000 App, scan the QR code or search for **SUN2000** in App Store or Google play to download and install the app. The app version is 2.2.00.036 (iOS) or later, or 2.2.00.035 Andriod iOS

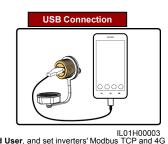
Setting Inverter Parameters at the Local Router Using

∃(5%) App Store **SUN2000** Google play

Ensure that the AC or DC side of an inverter has been powered on Connect the Bluetooth model or USB data cable to the inverter USB port to ensure that inverters can communicate with the SUN2000 app.

The following describes how to set the SUN2000 app (2.2.00.035) on the Android UI. The setting method is the same as that used on the iOS UI, but the UI display is slightly different. The site UI about property.





Log in to the SUN2000 app as user **Advanced User**, and set inverters' Modbus parameters.



1	NMS server	default for a Huawei management system. Specifies the IP address or website of a third-party management system.	
2	NetEco server port	Keeps the default value for a Huawei management system. Specifies the port number of connecting inverters to a third-party management system.	
3	SSL encryption	Sets to by default. If this parameter is set to, the data exchange between inverters and management systems is not encrypted, which poses security risks.	
4	Cascading channel	Inverters that do not have Dongle installed are set to	
5	APN mode		
6	APN access point	Set the parameters related to the SIM card. The parameters are obtained from the SIM card carrier.	
7	APN dialup number	• If APN mode is set to, you can set parameters for APN access	
8	APN user name	point, APN dialup number, APN user name, and APN user	
9	APN user password	password. If APN mode is set to, you do not need to set parameters for the APN.	
10	PIN	parameter for the first the	
NOTICE			
thi	When connecting inverters to a third-party management system, you need to ensure that the third-party management system supports the standard Modbus TCP protocol and configure the access point table based on the definitions of Huawei inverter interfaces. You need to set NMS		

access point table based on the definitions of Huawei Inverter Interfaces. You need to set NM server and NetEco server port for inverters as required by a third-party management system and replace the client certificate. A third-party management system must comply with the definitions of Huawei inverter interfaces. You need to obtain inverter interface definitions from Huawei technical support. This document describes how to connect inverters to a Huawei management system.

2.2 Installing the Dongle

Monthly Traffic Requirement of SIM Cards

meters 3 MB x Number of

3 MB x Number of power

No.

Parameter

Description

Before installing the Dongle, you need to remove the Bluetooth module or USB data cable. Each inverter has only one USB port. When maintaining an inverter locally, you need to remove the Dongle. In this case, the communication between the inverter and the network management system is interrupted. After the local maintenance is complete and the Dongle is installed, the communication is automatically restored. Install a SIM card

You need to prepare a standard SIM card (size: 25 mm x 15 mm; capacity: ≥ 64 KB). Before installing a SIM card, you need to remove the Dongle from an inverter

Traffic Support

Device performance data can be refreshed

every 5 minutes. The Dongle logs, inverter logs, and IV

C 0.8–1.1 N⋅m

ILO4H00001

Connect the Dongle to other inverters.

Check whether the Dongle or the USB port

This section describes how to create a site on the FusionSolar. If

6

6

7

of the inverter is faulty.

Deploying Plants in a Remote Management System

Log in to Google Play or App Store and search for FusionSolar or scan the QR code to

The following describes how to set the FusionSolar app (2.2.0) on the iOS UI. The setting method is the same as that used on the Android OS UI, but the UI display is slightly different. The site UI shall prevail.

1. Register a management system account. If a management system account exists, skip this step.

ദ

iOS

10 MB + 4 MB x Number of inverters

NOTE

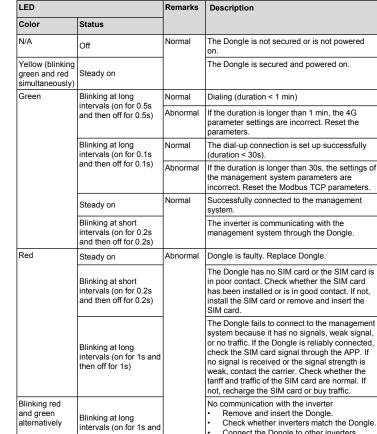
With power meters

verter USB port

With the

diagnosis data can be exported monthly. The Dongle and inverters can be upgraded monthly. weather station

	Install the SIM card in the arrow direction.	Ensure that the Dongle shell is properly installed.
Install the Dongle.		ILO4H00002
		LED



then off for 1s)

FusionSolar

FusionSol

2

Using the FusionSolar App

download and install the app. The app version is 2.2.0 or later.

the inverter is connected to a third-party management system, create a site on the corresponding management system. 6 Verify the mailbox and activate the account. /a84i

6 Enter the account and password to log in to the FusionSolar app, and create a plant.

[hm3]

Add Plant

1

2 Jh

6 og in to the default serve cn.fusionsolar.huawei.com

fusionsolar.huawei.co

4



Net Weight 90 a Ingress Protection Rating IP65

3.5 W

-30°C to +65°C

130 mm x 48 mm x 33 mm

Plug-and-play (applicable to inverters only)

Standard SIM cards (15 mm x 25 mm)

On the Plant tab page, select the corresponding plant to view the device status.

Performance Parameters

Basic Parameters

Installation Mode

SIM Card Type

SDongleA-03-EU

Dimensions (W x H x D)

Operating Temperature Dolotivo Humiditu

Typical Power Consumption

Relative Humidity	5% RH to 95% RH	
Storage Temperature	-40°C to +70°C	
Default Server		
SDongleA-03-CN	cn.fusionsolar.huawei.com	
SDongleA-03-EU	intl.fusionsolar.huawei.com	
SDongleA-03-AU		
SDongleA-03-JP		
SDongleA-03-KR		
Standard and Frequency Band		
SDongleA-03-CN	LTE FDD: B1, B3, B8 LTE TDD: B39, B40, B41 (38) DC-HSPA+/HSPA+/HSPA/UMTS: B1, B5, B8, B9 TD-SCDMA: B34, B39 GSM/GPRS/EDGE: 900 MHz, 1800 MHz	

LTE FDD: B1, B2, B3, B4, B5, B7, B8, B20 WCDMA/HSDPA/HSUPA/HSPA+: B1, B2, B5, B8 GSM/GPRS/EDGE: 850 MHz, 900 MHz, 1800 MHz, 1900 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	WCDMA: B1
Certification	
SDongleA-03-CN	N/A
SDongleA-03-EU	CE
SDongleA-03-AU	Taiwan, China: NCC Australia: RCM
SDongleA-03-JP	TELEC, JATE
SDongleA-03-KR	кс

TE EDD: D1 D2 D5 D7