SmrtPVMS V500R007C00

Operation Guide for Remote Inverter Shutdown in South Australia

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About This Document

This document applies to the scenario where national metering identifiers (NMIs) are used to authorize Australian power grid agents to remotely shut down inverters in batches. This document is intended for power grid agents and installers.

2 Remote Shutdown Process in Australia



3 Differences in the Commissioning for Australian Users

Background

The new "Remote Disconnect and Reconnection of electricity generating plants" technical standard, published by the Government of South Australia and in effect as of 28 September 2020, requires that all new prescribed electricity generating plants be capable of being remotely disconnected, and later reconnected, by relevant agents. Please refer to the following instructions to complete the setting for all plants that need to meet this standard.

No	Differe nce	South Australia Region	Other countries or regions	Affe cted User	Remarks
1	Login domai n name	au7.fusionso lar.huawei.c om	intl.fusionso lar.huawei.c om	Agen ts, instal lers, and owne rs in Sout h Austr alia	-
2	Plant NMI setting	The NMI needs to be set.	The NMI does not need to be set.	Insta llers in Sout h Austr alia	According to the requirements of the Government of South Australia, an NMI must be set for a new plant to ensure that relevant agents can remotely shut down inverters.

Table 3-1 Differences in the	he commissioning
------------------------------	------------------

No	Differe nce	South Australia Region	Other countries or regions	Affe cted User	Remarks
3	Alarm subscri ption setting	Alarm subscription needs to be set.	Alarm subscription does not need to be set.	Insta llers in Sout h Austr alia	According to the requirements of the Government of South Australia, alarm subscription must be set for new plants to ensure that users can monitor the disconnection between devices and the FusionSolar Smart PV Management System.
4	App downlo ad	Download the app through the QR code or link by referring to 4.1 Downloadin g the App.	Download the app by referring to <i>FusionSolar</i> <i>App Quick</i> <i>Guide</i> .	Insta llers and owne rs in Sout h Austr alia	-

4 Operation Guide for Installers

This section describes how installers can obtain accounts, perform deployment commissioning, add plants, and set NMI information.

4.1 Downloading the App

 Table 4-1 Methods for downloading the FusionSolar app

Method 1: Scan the QR Code to Download the App.	Method 2: Click the Link to Download the App.
	https://au7.fusionsolar.huawei.com/ fusionsolarapp

4.2 Obtaining an Account

Obtaining an Account by Self-Registration

• Registration in the WebUI: If you access the FusionSolar portal using the domain name https://au7.fusionsolar.huawei.com, click Installer Registration and register an account as prompted.



- Registration in the app:
 - a. Set the domain name to **au7.fusionsolar.huawei.com**.

© English ✓	$$ English \lor \cdots	$$ English \sim \cdots
FusionSolar	FusionSolar	FusionSolar
A Username or email	R Username or email	Login setting
6 Password	6 Password	https:// au7.fusionsolar.huawei.com
Forgot password?	Forgot password?	Cancel Confirm
	Quick guide	
Log in	User manual	Login
- 1-	Commissioning video	4
4	Device commissioning	
1	Login setting	No account?
No account?	Cancel	

NOTE

The domain name must be **au7.fusionsolar.huawei.com**. Otherwise, the remote shutdown function cannot be used.

b. Tap **No account?** to register an installer account.

ⓒ English ∨ ···	< Role	C Installer registration
FusionSolar	I'm an owner Real-time monitoring of plant operation	Note:If your company has registered an account in the system, you do not need to register again Contact the administrator to add the registered account to the user list.
A Username or email	Ask your installer to create an account for you.	Company name
Password Forgot password?	I'm an installer	Email address
	Quick setup, O&M, operation monitoring Tap to create your account	Username
Log in		Verification code Send
		Password 😽
		Confirm password
		I have read and agreed to Terms of Use and Privacy Policy
No account?		REGISTER

NOTE

If your company has been registered, you can contact the upper-level installer to allocate an account.

Obtaining an Account Allocated by the Upper-Level Installer

Contact the upper-level installer to allocate an account. After obtaining the account, you can log in to the FusionSolar portal using the domain name https://au7.fusionsolar.huawei.com.

4.3 Deployment Commissioning

After a device is installed, you need to log in to the FusionSolar app to commission the device and set management system parameters. For details, see *FusionSolar App Quick Guide*.

If you use the FusionSolar app for the first time, set the domain name to **au7.fusionsolar.huawei.com**.



NOTE

You must set the domain name of the FusionSolar portal to **au7.fusionsolar.huawei.com**. Otherwise, the remote shutdown function cannot be used.

When commissioning the SmartLogger, set **Server** to **au7.fusionsolar.huawei.com** on the **Management System**.

4 Operation Guide for Installers

< Settings	< Management System	< Management System
Comm. Param.	Server	Server
Ethernet	Port number	Port number
R\$485	16100	Server
Management System	Address mode Logical address	https://au7.fusionsolar.Huawei.com
Modbus TCP	STL encryption	· · · · · · · · · · · · · · · · · · ·
IEC103	Second challenge authentication	
IEC104		Cancel Confirm
 Extended Param. 	Management system Failed to connect to the port(Port16100)	Failed to connect to the port(Port16100)
FTP	4G module status	4G module status
Email	No card	No card
	Ethernet status	Ethernet status
	The network is normal	The network is normal

When commissioning the inverter, set **Domain name** to **au7.fusionsolar.huawei.com** on the **Connect to mgmt sys**.

<	Quick settings	
Devi	ce detection	Completed
Setting basic parameters	Connect to m	ngmt sys
The access to the m the customer.	anagement system mus	t be authorized by
Monitor the PV plant the management sys	t through stem.	
		→ <u>•</u>
Setting management syste	em parameters	
Domain name au7	/.fusionsolar.huawei.com	>
Port 27	250	
SSL encryption		
The Ethernet connect as a backup by ch	tion is successful. You can oosing Communication cor connection settings.	set WLAN parameters nfiguration > Router
Previous	Nex	xt

4.4 Setting the NMI

According to the requirements of the Government of South Australia, an NMI must be set for a new plant to ensure that relevant agents can remotely shut down inverters.

Procedure

- Method 1: Set the NMI in the FusionSolar app.
 - 𝚱 English ∨ demo 👫 Setup wizard 🤱 Add User FusionSolar Q Enter a plant na * My Plant Announcements Enabled R Username or email 10.00 kWp Commissioning 6 Pass 1234556 Enabled Plant management Forgot pa Im 0.00 kWp Ш User management Company info Settings ß ٢ Ð Ì œ -Plant Management My Plant My Plant QEnter a pl * Total String Capacity (kWp) * Total String Capacity (kWp) 1234556 0.000 kWp Grid connection date 12/16/2020 Grid connection date 12/16/2020 Start date of safe running Start date of safe running Grid connection date 12/16/2020 My Plant Plant address * Plant address \odot Plant time zone Plant time zone ate 12/16/2020 Owner Owner Contact method Contact method NMI NMI Plant introduction Plant introduction Basic info Add Devices String capacity Elec 6 Cancel
- Method 2: Set the NMI in the FusionSolar portal.
 - a. Choose **Plants > Plant > Plant Management** from the main menu.



b. On the **Plant Management** page, click *in the* **Operation** column of the plant list.

Plant name:	Search Reset				
					Add Plant Delete
Plant Name	Total Plant String Capacity (kWp)	Address	Contact Person	Contact Method	Grid Connection Date Operation
V2smartlogger	88.200	Samegrelo-Upper ***	*		2020-12-16 🖉 🗇
✓ Total records: 1					< 1 > 10/page >

c. On the **Set Basic Info** tab page, set **Remote startup/shutdown authorization code (NMI)**.

Set Basic Info Add Devices Set S	tring Capacity Set Electricity Prices Set Other Info	
* Company :	Trestcompany v	
* Plant name :	V2smartlogger	
* Grid connection date:	2020-12-16	
Poverty alleviation plant:	No	
Contact person:		
Contact method:	Enter a phone number or an email address.	0
Remote startup/shutdown authorization code (NMI	12345678907	0

4.5 Alarm Subscription

According to the requirements of the Government of South Australia, alarm subscription must be set for new plants to ensure that users can monitor the

d. Click Save.

Close Apply Save

disconnection between devices and the FusionSolar Smart PV Management System.

Prerequisite

The email server of the company has been configured. For details, Search *Configuring an Email Server* in the FusionSolar portal.

ince	System	
	Configuring an Email Server	
	Search Configuring an Email Server C Information Center	
mal	Move cursor: 1 . , Open/Execute: Enter , Open in new tab: Ctrl+Enter .	
t.	0	V
ry	Total alarms	

Prerequisites

- The alarm push rules take effect only for newly reported alarms. If an alarm has been reported to the Management system before the push rules take effect, no notification email will be sent.
- When a new alarm that meets the push rules is reported to the Management system, the push rules are triggered immediately to send an email to the specified users.
- If the time zone of the recipient is different from that of the server, the alarm generation time in the email is displayed based on the time zone of the server.
- By default, the rules are sorted by the enabled and disabled states, and the rules in the same state are sorted by update time in descending order.
- A maximum of 1000 remote notification rules can be created.

Procedure

 Choose System > Business Configuration > Alarm Configuration from the main menu.



2. In the navigation pane on the left, click **Push Settings**.

Business Configuration	
Alarm Configuration	Push Settings
Push Settings	Plant name: R
Redefine Alarm	
	Pulo Namo

3. On the **Push Settings** page, click **Add**.

rm Severity Target User Push Method Recipient email Email Language Status Operation
rm Severity Target User Push Method Recipient email Email Language Status Operation
No Data
No Data

4. In the **Add Rule** dialog box, set the rule parameters.

Add Rule			×
* Rule name:			
* Plant:			
* Alarm Severity:	🗌 Critical 🗌 Major 🗌 Minor 🗌 Warning		
Email Language:	English		\vee
User:	Email push App push		
User email:			
			11
		Cancel	Save

NOTE

To send notifications to relevant personnel, you need to enter their personal information, such as email addresses. You are obligated to take considerable measures, in compliance with the laws of the countries concerned and the user privacy policies of your company, to ensure that users' personal data is fully protected.

5. Click Save.

Related Tasks

- Deleting a rule: You can select a redundant rule from the rule list and click **Delete** to reduce the rule maintenance workload.
- Enabling/disabling a rule: You can select a rule that is not used temporarily from the rule list and click **Disable**. To use a disabled rule, select the rule and click **Enable**.
- Backing up, collecting statistics on, and reviewing rules, and modifying rules in batches: You can click Export on the rule page to export rules and back up, review, and collect statistics on the rules. If you need to modify rules in batches, you can modify the rules in batches in the exported rule file. Then, click Import on the rule page to import the modified rule file.

NOTE

When the notification rules are exported, the email addresses of the recipient users are exported. You are obligated to take considerable measures, in compliance with the laws of the countries concerned and the user privacy policies of your company, to ensure that the user's personal information is fully protected.