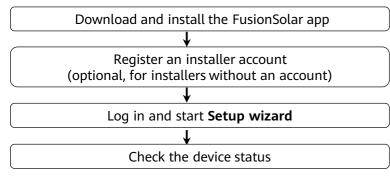
FusionSolar App Quick Guide

Issue: Draft B Date: 2021-02-03

HUAWEI

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FusionSolar App Quick Settings Operation Procedure



FAQ

Physical Layout Design of PV Modules Using Device Commissioning (optional, for scenarios with optimizers)

Physical layout design of PV modules on the SmartPVMS WebUI (optional, for scenarios with optimizers)

This document applies to the following scenarios:

- Inverter with built-in WLAN for local commissioning
- Inverter with a Smart USB-WLAN Adapter for local commissioning
- In RS485 cascading networking.
- Inverter with a SmartLogger for local commissioning

- The figures are for reference only.
- The initial password for connecting the inverter WLAN is Changeme.
- The in to the system. Use the initial password upoinitial password for connecting the Smart USB-WLAN Adapter is **Changeme**.
- The initial password of the **installer** and **Advanced user** is **00000a**. If the system prompts you to set a password, set the password and login first power-on and change it immediately after login.
- To ensure account security, change the password periodically and keep the new password in mind. Not changing the initial password may cause password disclosure. A password left unchanged for a long period of time may be stolen or cracked. If a password is lost, devices cannot be accessed. In these cases, the user is liable for any loss caused to the PV plant.

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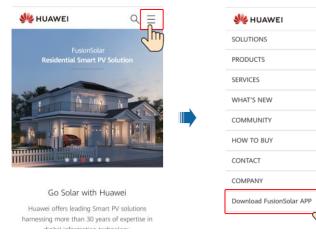
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Method 1: Search for **FusionSolar** in Huawei AppGallery to download and install the app.

Method 2: Access **https://solar.huawei.com** using the mobile phone browser and download the latest installation package.

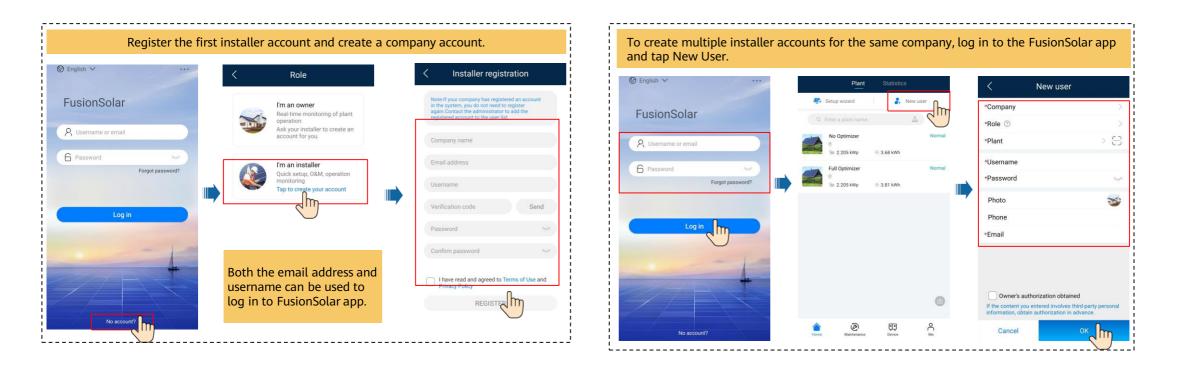


Method 3: Scan the QR code to download and install the app.

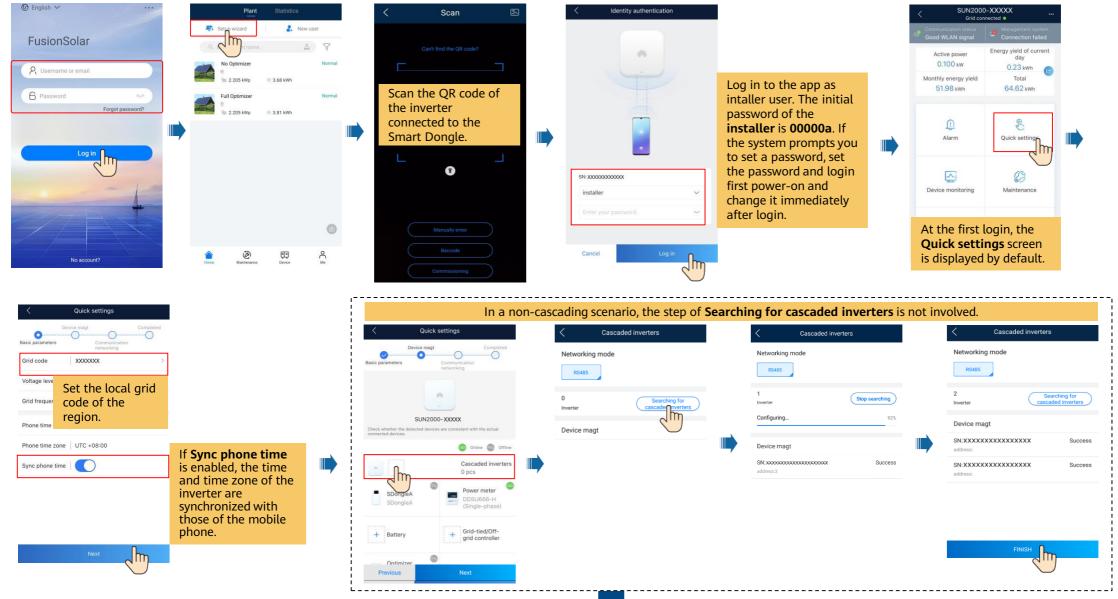


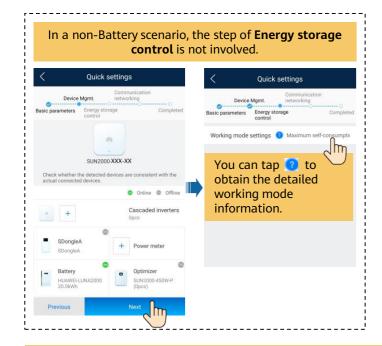
FusionSolar

2. Register an Installer Account (Optional, for Installers Without an Account)

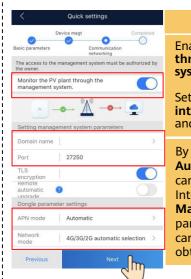


• Local Commissioning Using the Built-in WLAN of the Inverter

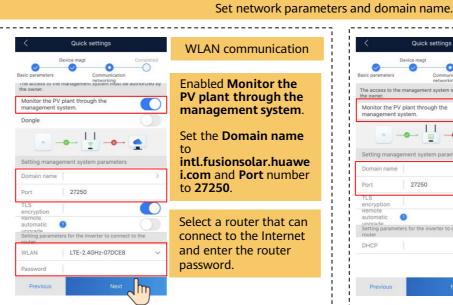


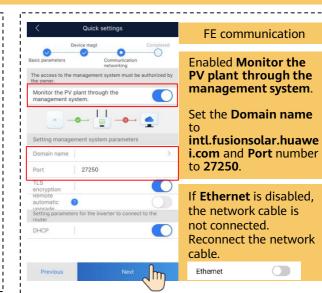


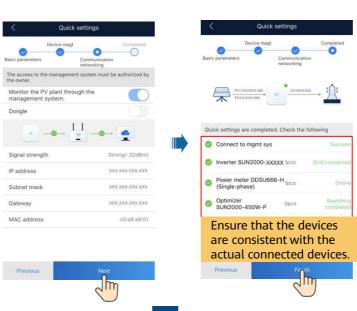
Set network parameters and domain name.



a	4G communication
by	Enabled Monitor the PV plant through the management system.
)	Set the Domain name to intl.fusionsolar.huawei.com and Port number to 27250 .
>	By default, APN mode is set to
)	Automatic. When this mode cannot be used to access the Internet, set the parameter to
>	Manual. In this case, set the
>	parameters related to the SIM card based on the information obtained from the carrier.

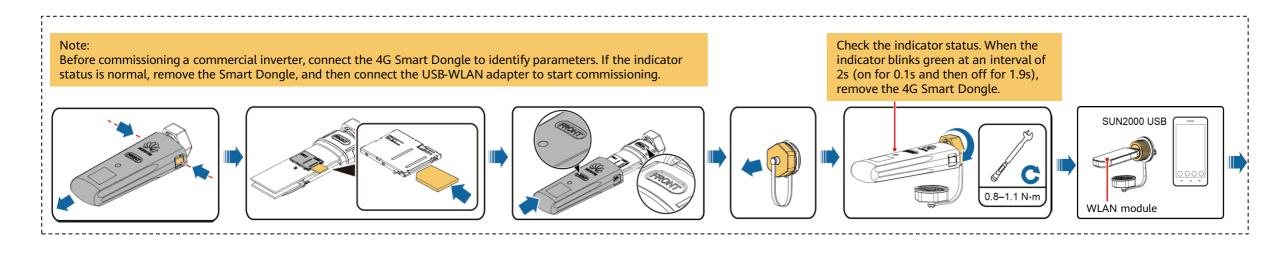


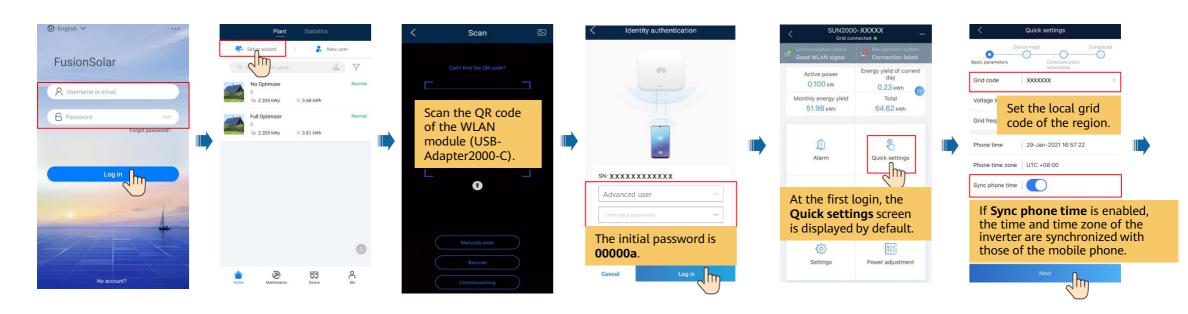


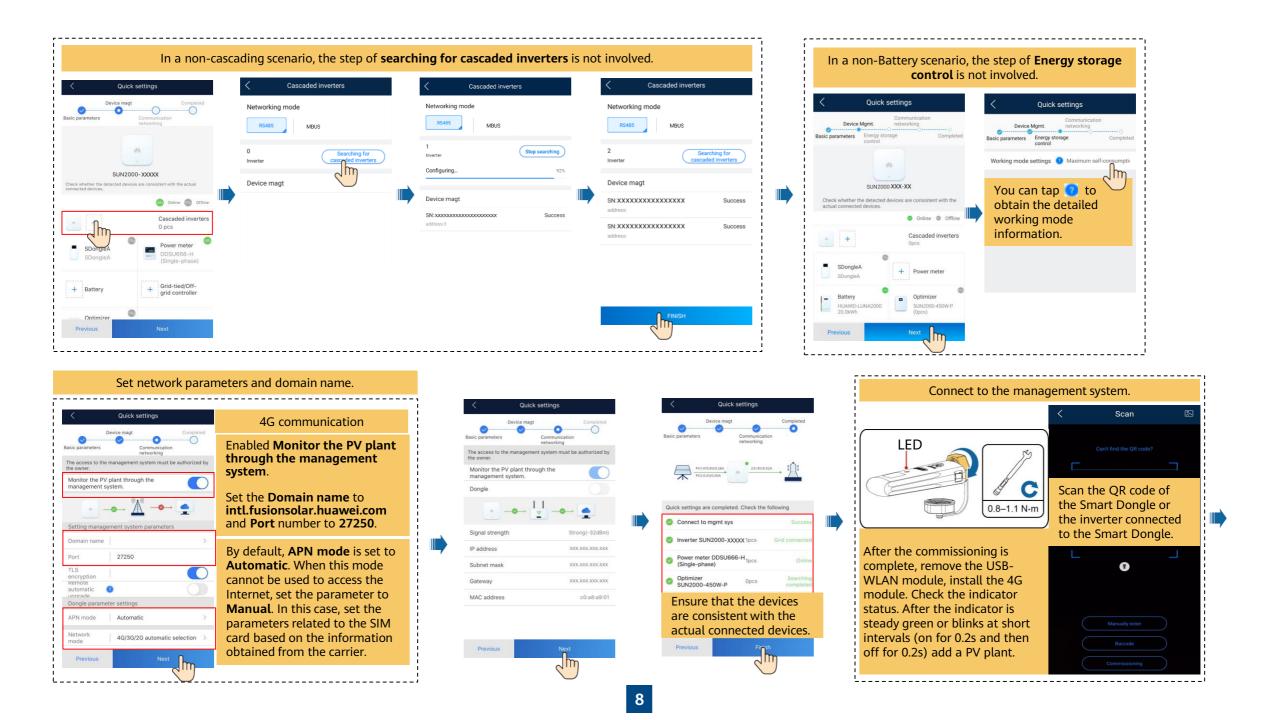


Add a plant.									Crea	ate an o	wnei	r account.	
Create Site		Add plant Set basic info Country/Region Country/Region Country/Region Country/Region Plant name *Total string capacity(kWp)			Add plant Add plant Connect device Device SN Device		Device 🕄	Plant Statistics Setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard C Enter a plant hame. Image: Comparison of the setup wizard No Optimizer Image: Comparison of the setup wizard Image: Comparison of the setup wizard No Optimizer Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wizard Image: Comparison of the setup wi				✓ New user *Company 2 *Role ⑦ 2 *Plant > *Username * *Password >	
		*Grid-connected *Plant address Plant time zone Owner Contact method	09/23/2020 > Enter or locate O Owner name Phone/Email									Photo Phone *Email	3
Later		Owner's authorization obt If the content you entered involves obtain authorization in advance. Ne	hird-party personal information,		Previous	Subn	nit 🕕	Norse Darkenance	Device	C Me		Owner's authorization obtai If the content you entered involves information, obtain authorization in Cancel	third-party personal

• Local Commissioning Using a Smart USB-WLAN Adapter



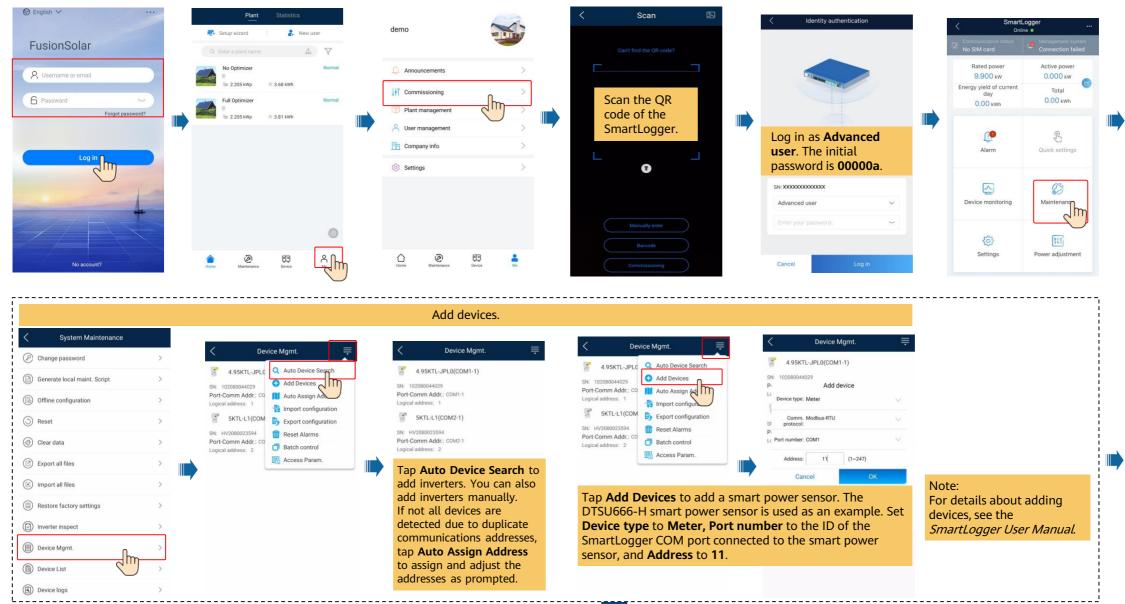


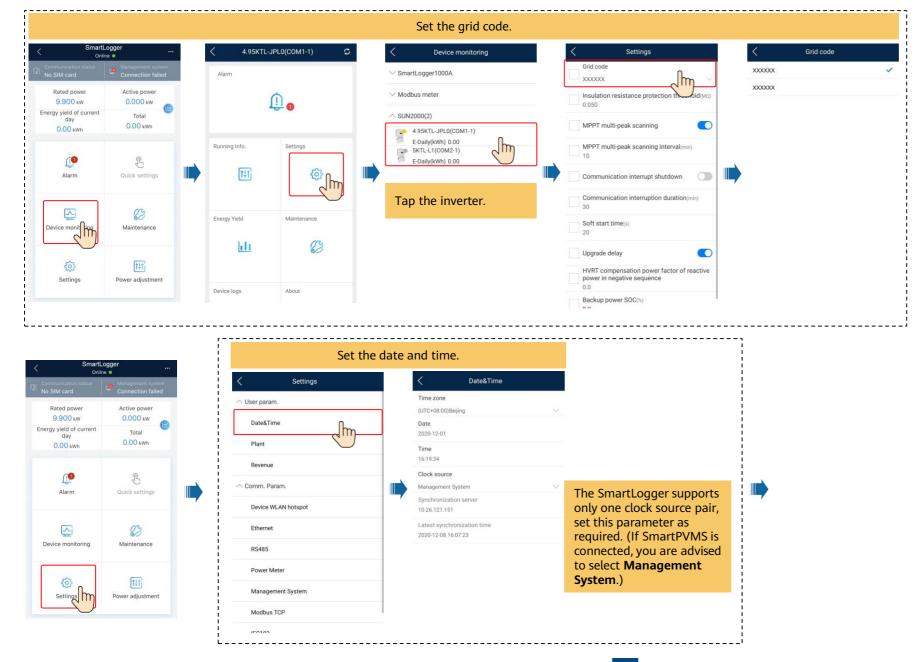


	Add a plant.				ł		Create an	owner account.	
Create Site	< Add plant		<	Add plant		Plant	Statistics	< New u	iser
Add plant	Set basic info Connect		0	2		🕂 Setup wizard	A New user	*Company	
~	*Country/Region Count	try/Region >	Set basic info			Q Enter a plant name.	à V	*Role ③	
real Connect to existing plant → >	*Company	>	Device SN	Device {	2	No Optimizer	Normal 8: 3.68 kWh	*Plant	> (
	*Plant name		Added devices			Full Optimizer	92 3.68 kWh	*Username	
	*Total string capacity(kWp)		Device SN	xxxxxxxxxx 🔟			🐵 3.81 kWh	*Password	
	*Grid-connected 05	9/29/2020 >	Device type Device model	Smart Dongle VxxRxxxCxxSPCXXX				Photo	3
	*Plant address Enter	or locate 💿	Connected devices >		ł			Phone	
	Plant time zone							*Email	
	Owner	Owner name							
	Contact method F	Phone/Email			-				
	Owner's authorization obtained If the content you entered involves third party personal is obtain authorization in advance.	nformation,					0	Owner's authorization of the content you entered invinformation, obtain authorizat	olves third-party persor
Later	Next		Previous	Submit		Home Maintenance	Device Me	Cancel	ок

LED			Description					
Color	Status							
N/A	Off	Normal	The Dongle is not secured or is not powered on.					
Yellow (blinking green and red simultaneously)	Steady on		The Dongle is secured and powered on.					
Green	Blinking in a 2-second cycle (on for 0.1s and	Normal	Dialing (duration < 1 min)					
	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 intervals (on for 1s and then off	Normal	The dial-up connection is set up successfully (duration < 30s).					
	for 1s)	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)	-	The inverter is communicating with the management system through the Dongle.					
Red	Steady on	Abnormal	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)		The Dongle fails to connect to the management system because it has no signals, weak signal, 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.					

• Local Commissioning Using the SmartLogger of the Inverter





	Set network param	neter	S.		
< Settings User Param. Date&Time	Mobile Data (4G/3G/2G) 4G module status No card		When the SmartLogger connects to the SmartPVMS over the wireless network, set Monthly traffic package(MB) and Network mode.		 ✓ Setti △ User param. Date&Time
Plant Revenue Comm. Param. Electricity Meter Mobile Data (4G/3G/2G) Device WLAN hotspot Ethernet RS485	Monthly usage traffic(MB) 0.00 Average daily used traffic(MB) 0.00 Monthly traffic package(MB) 0.00 Network mode 46/36/2G automatic selection APN mode Automatic IMEI IMEI IP address	twork operator package(MB) and Network o Note: o Set Monthly traffic and Network mode card information. o By default, APN mode card information. o By default, APN mode card informatic. vwork mode Value o/o By default, APN mode card informatic. vwork mode Value o/o Connected and an Intervented and an	Set Monthly traffic package(MB) and Network mode based on the SIM card information. By default, APN mode is set to Automatic. When this mode cannot be used to access the Internet, set the parameter to Manual. In this case, set the parameters related to the SIM card based on the information obtained from the carrier. When 4G module status is Connected and an IP address has been assigned, SmartLogger dialup is	Or	Plant Revenue Comm. Param. Device WLAN hotspor Ethernet RS485 Power Meter Management System Modbus TCP F50102

Connect to the SmartPVMS.

Automatically obtain IP address IP address Subnet mask 255.255.255.0 Default gateway Primary DNS server Secondary DNS server 0.0.0.0

Set network parameters.

Ethernet Notes: the LAN. When the SmartLogger connects to the SmartPVMS over a wired network, set Ethernet parameters. server.

Set IP address and Subnet **mask** for the SmartLogger according to the network planning. Ensure that the SmartLogger and the router are on the same network segment and that the SmartLogger has a different IP address from other devices on Set **Default gateway** and

Primary DNS server to the IP address of the LAN router. • If the primary DNS server

cannot resolve the domain name, use the secondary DNS

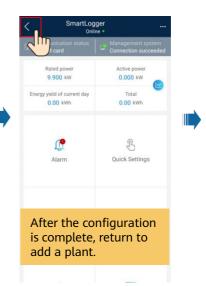
Settings Comm. Param. Ethernet RS485 Management System Modbus TCP IEC103 IEC104 Extended Param. FTP Email

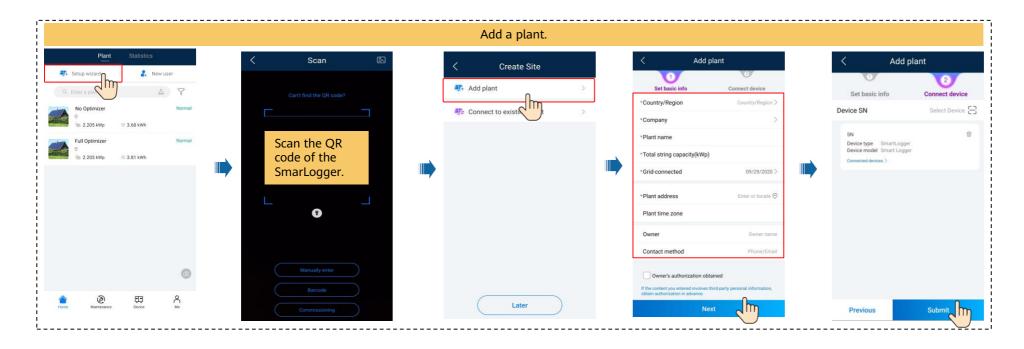
< Management System	
Server	
Port number 16100	
Address mode 🗸	
STL encryption	
Second challenge authentication	
Management system	
Failed to connect to the port(Port16100)	
4G module status	
Ethernet status	
	Port number 16100 Address mode Logical address STL encryption Second challenge authentication Management system Failed to connect to the port(Port16100) AG module status No card

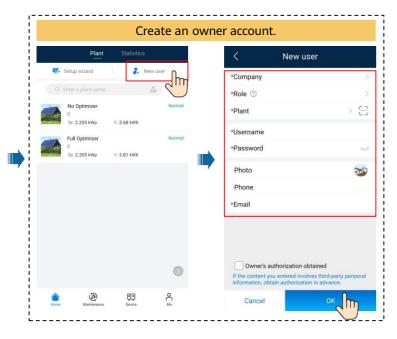
Management System Serve • Port number Server intl.fusionsolar.huawei.com Enter the domain name of the SmartPVMS. Cancel 4G module status No card Ethernet status

Set Server to intl.fusionsolar.huawei.com and Port number to 27250.

- Set Address mode to Logical address. If the communication address of the device connected to the SmartLogger is unique, you are advised to set Address mode to Comm. address. In other cases, you must select Logical address. • Enable TSL encryption and Second challenge authentication. If the status of **Management**
- system is Connected, the SmartLogger is properly connected to the SmartPVMS.

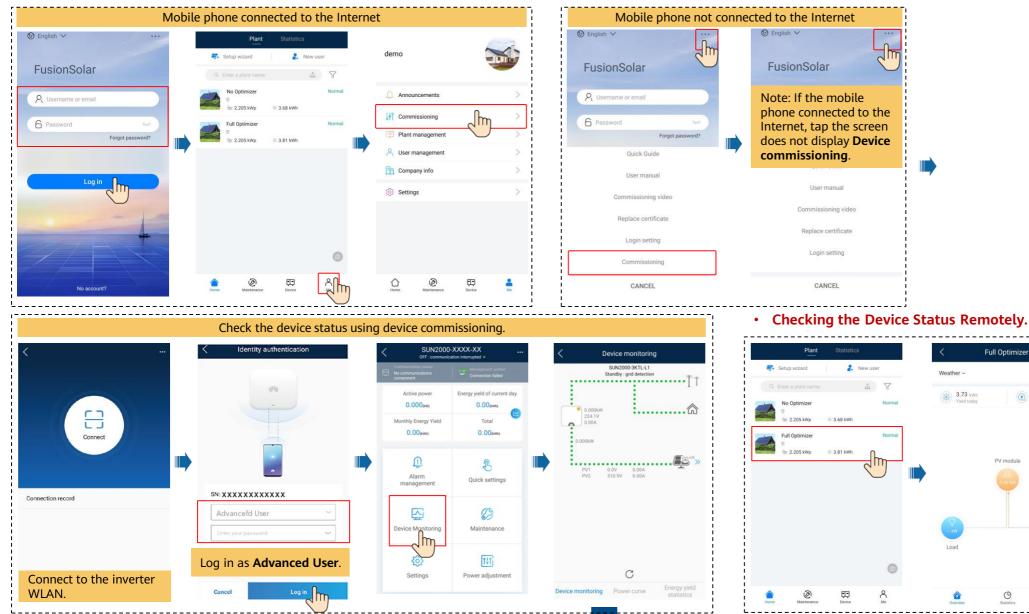






4. Checking the Device Status

• Checking the Device Status Using Device Commissioning



14

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(149.04 kWh Yield this month

Grid

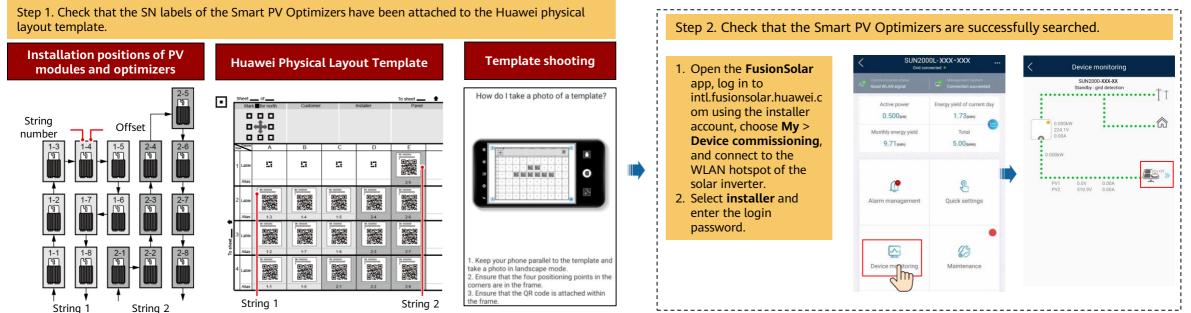
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Full Optimizer

PV module

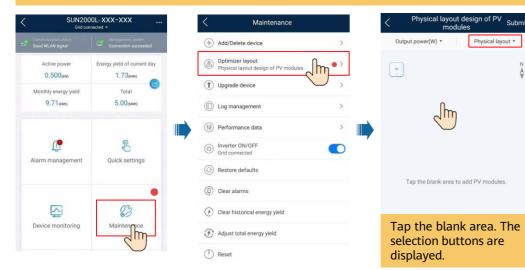
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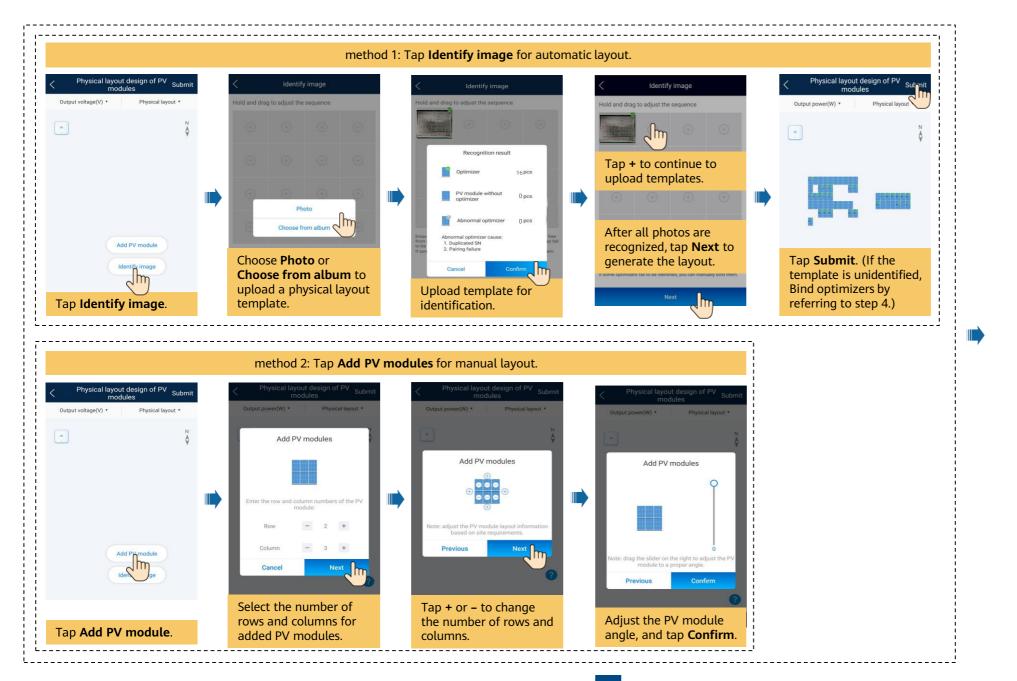
FAQ 1. Physical Layout Design of PV Modules Using Device Commissioning (Optional, for Scenarios with Optimizers)



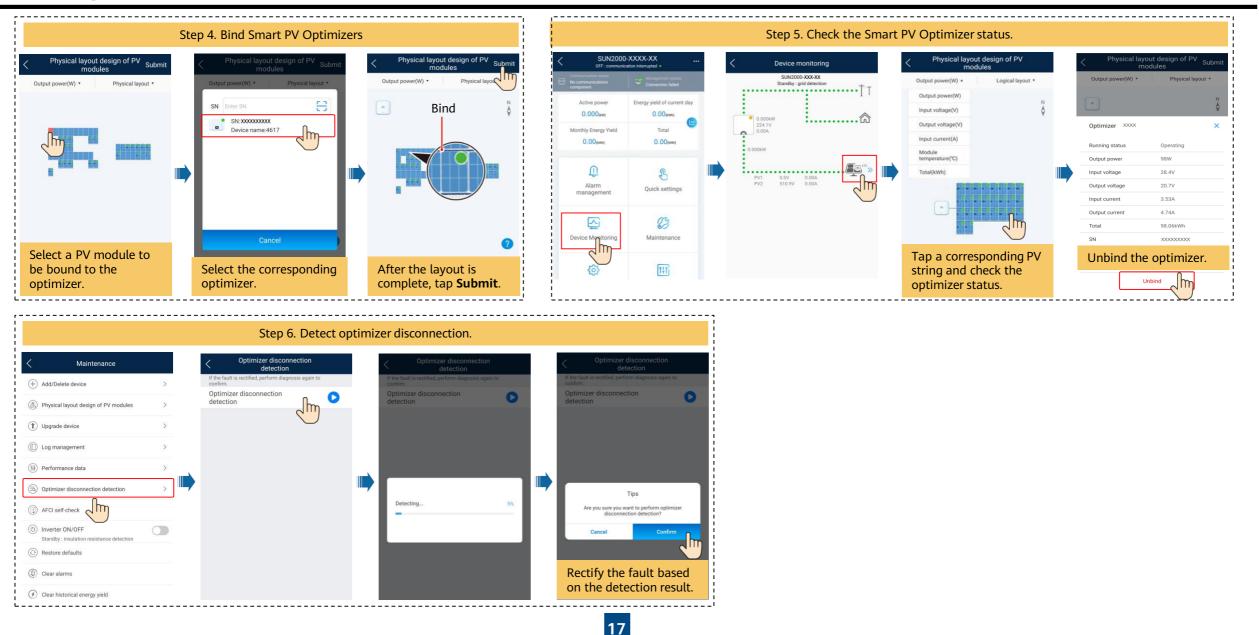
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Step 3. Set optimizer physical layout

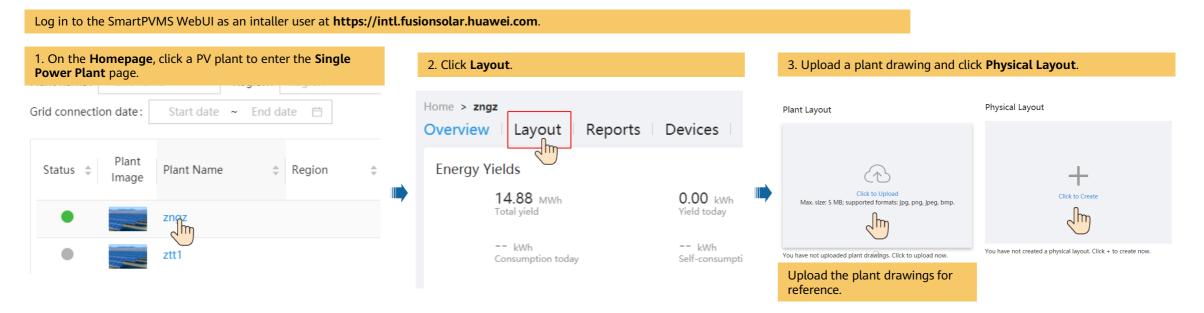




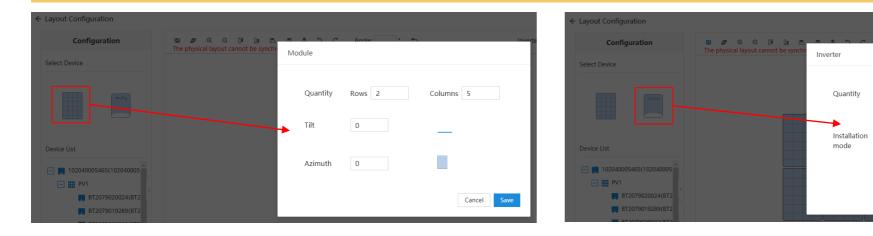
FAQ 1. Physical Layout Design of PV Modules Using Device Commissioning (Optional, for Scenarios with Optimizers)



FAQ 2. Physical Layout Design of PV Modules on the FusionSolar WebUI (Optional, for Scenarios with Optimizers)



4. Drag the PV module to the physical layout area, increase the number of widgets, and adjust the angle based on the site requirements.



18

1

Horizontal

Vertical

Cancel

FAQ 2. Physical Layout Design of PV Modules on the FusionSolar WebUI (Optional, for Scenarios with Optimizers)

