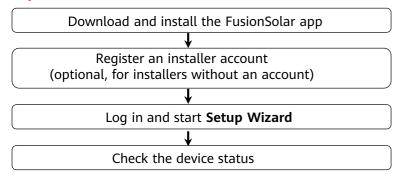
FusionSolar App Quick Guide

Issue: 10

Date: 2020-12-25



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 FusionSolar WebUI (optional, for scenarios with optimizers)

Setting Export Limitation Parameters

Setting Voltage Rise Suppression Q-U Curve

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- The app screen snapshots provided in this document correspond to FusionSolar 2.5.8. 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 is 00000a. If the system prompts you to set a password, set the password and log n 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.

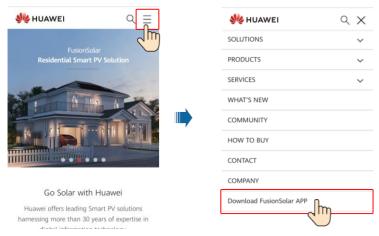
This document applies to the following scenarios:

- Inverter with built-in WLAN for local commissioning
- Inverter with a Smart USB-WLAN Adapter for local commissioning
- In RS485 cascading networking, the master inverter can be: SUN2000-(3KTL-20KTL)-M0, SUN2000-70KTL/75KTL-C1 (optional), SUN2000-50KTL/63KTL-JPM0, SUN2000-50KTL-JPM1, SUN2000-50KTL/60KTL/65KTL/100KTL/110KTL/125KTL-M0, SUN2000-70KTL/100KTL-INM0, SUN2000-100KTL-M1, SUN2000-175KTL-H0, SUN2000-185KTL-INH0, and SUN2000-185KTL-H1,SUN2000-(2KTL-5KTL)-L1.

1. Downloading and Installing the FusionSolar App

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.



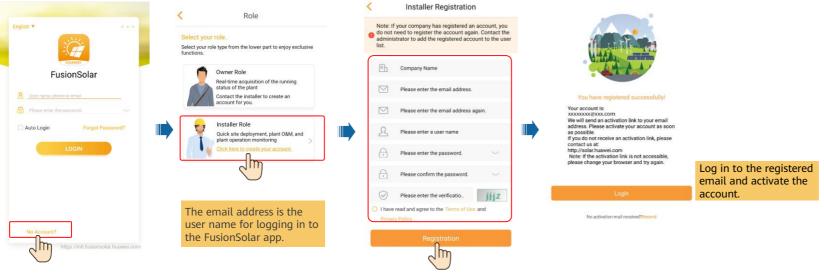
Method 3: Scan the QR code to download and install the app.



FusionSolar

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

• Creating the first installer account will generate a domain named after the company. The default login address is intl.fusionsolar.huawei.com.

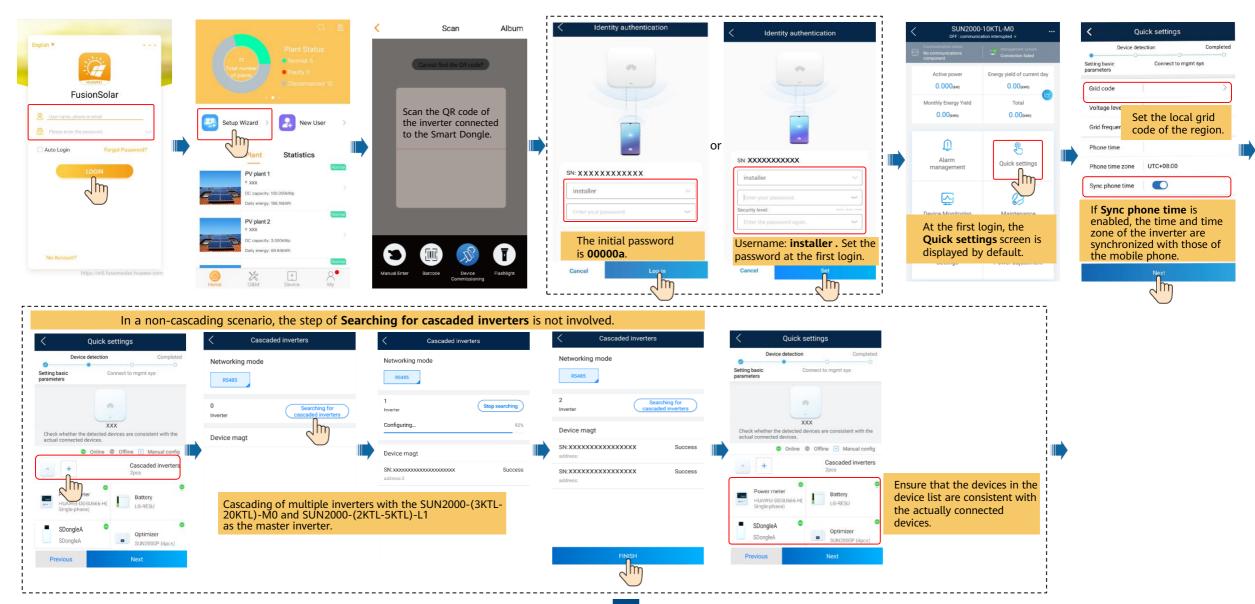


• To create multiple installer accounts for the same company, log in to the FusionSolar app and tap New User.



3. Log in and Start Setup Wizard

Local Commissioning Using the Built-in WLAN of the Inverter



Select the corresponding communication settings based on the Smart Dongle. WLAN communication FE communication Quick settings Quick settings Quick settings Device detection Completed Device detection Completed Device detection Completed Ethernet Setting basic Setting basic Connect to mgmt sys Setting basic Connect to mgmt sys Setting basic Connect to mamt sys parameters parameters If **Ethernet** is The access to the management system must be The access to the management system must be The access to the management system must be authorized by the customer. For details, see the privacy disabled, the authorized by the customer. For details, see the privacy authorized by the customer. For details, see the privacy network cable is Monitor the PV plant through Monitor the PV plant through Monitor the PV plant through not connected. Of or the management system the management system Reconnect the

Previous

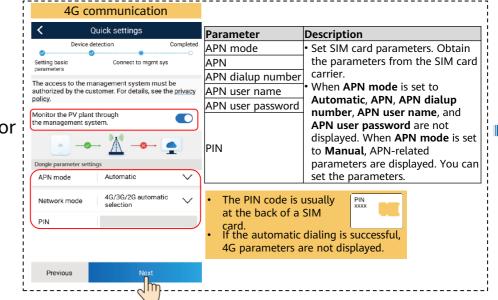
Strong(-21dBm)

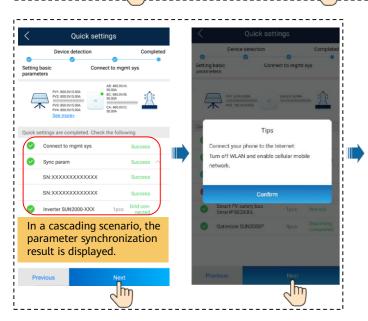
XXX.XXX.XXX

XXX.XXX.XXX

XXX.XXX.XXX.XXX

XX:XX:XX:XX:XX





IP address

Gateway

Subnet mask

MAC address

Previous

Select a router that can

WLAN list

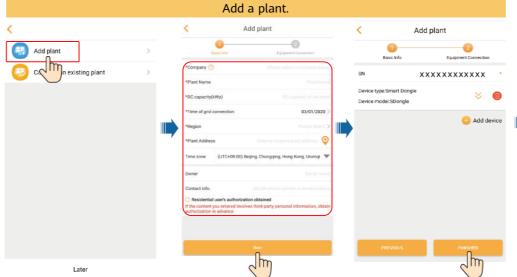
Password

Previous

connect to the Internet and

enter the router password.

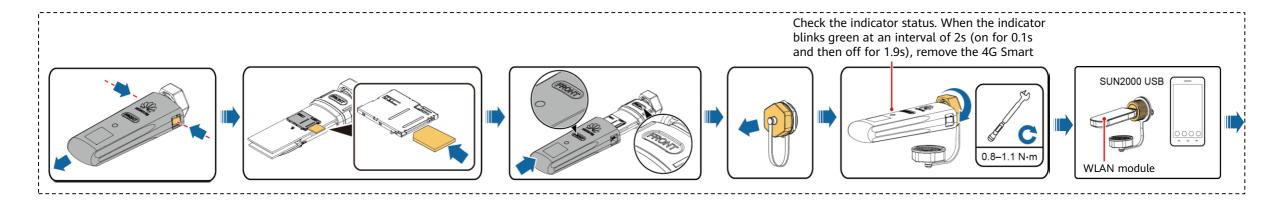
Router WLAN password

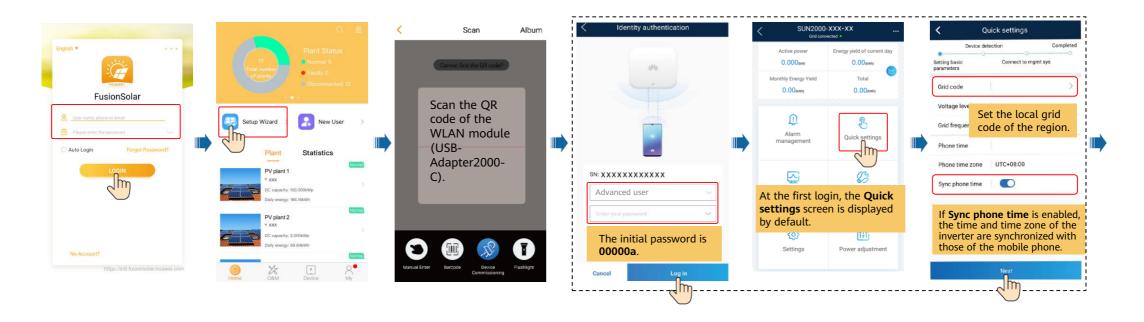


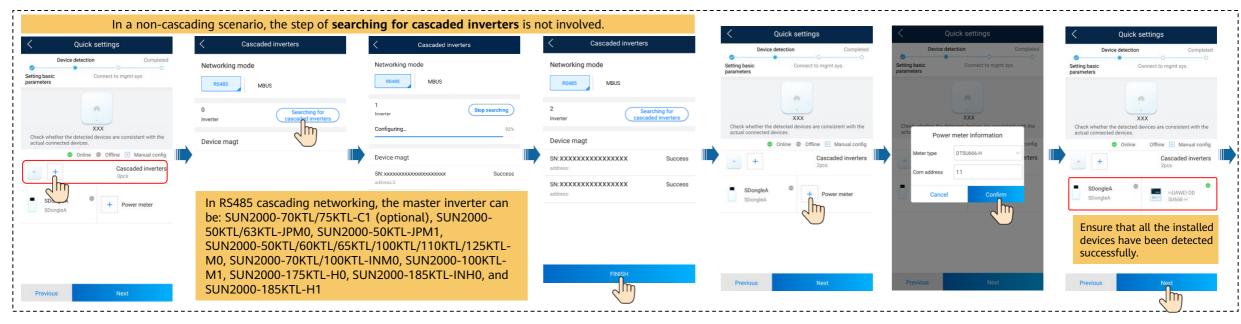
network cable.

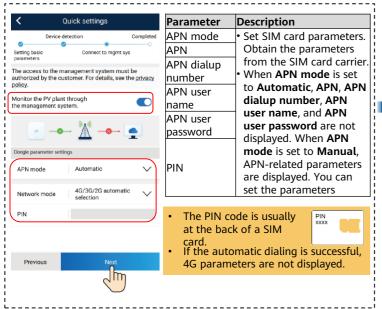


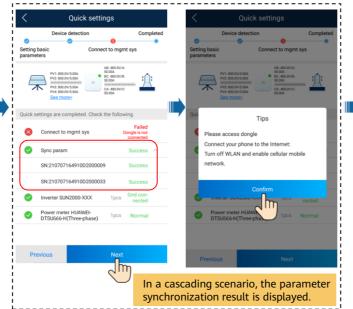
Local Commissioning Using a Smart USB-WLAN Adapter

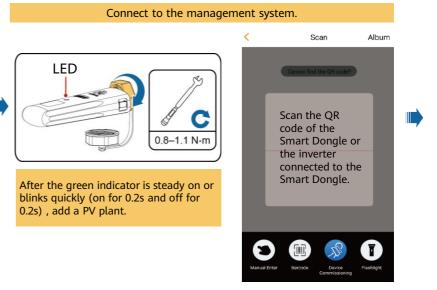


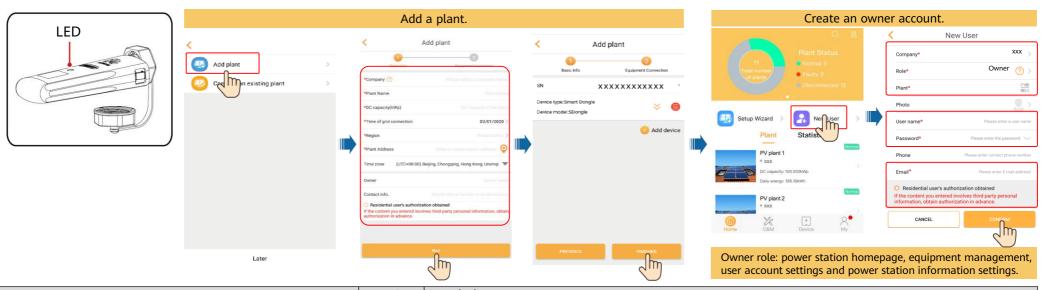








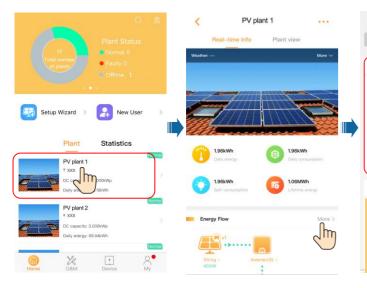


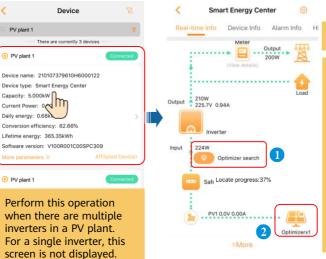


LED		Remarks	Description
Color	Status		
N/A	Off	Normal	The Dongle is not secured or is not powered on.
Yellow (blinking green and red simultaneously)	Steady on		The Dongle is secured and powered on.
Green	Blinking in a 2-second cycle (on for 0.1s and then off for 1.9s)	Normal	Dialing (duration < 1 min)
		Abnormal	If the duration is longer than 1 min, the 4G parameter settings are incorrect. Reset the parameters.
	,	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)		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.

4. Checking the Device Status

Checking the Device Status Remotely.

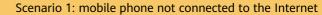


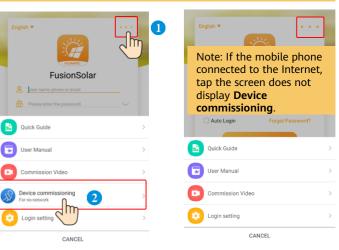


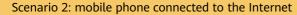
Check the search progress of the optimizer.

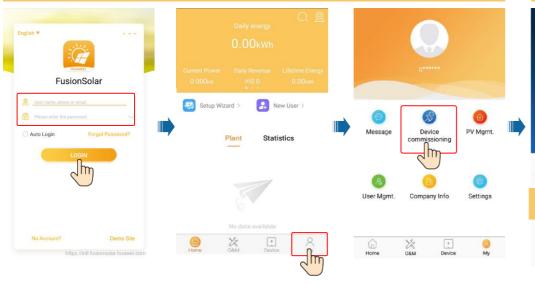
- P Ensure that all the Smart PV Optimizers have been detected successfully. Then you can perform the physical layout of PV modules on the FusionSolar WebUI.
- Optimizers cannot be searched due to poor illumination, search for the Smart PV Optimizers again when the illumination is good.

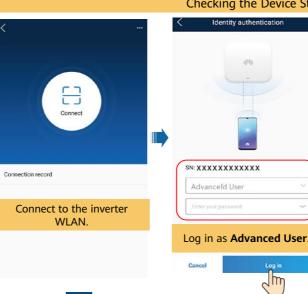
 Checking the Device Status Using Device Commissioning









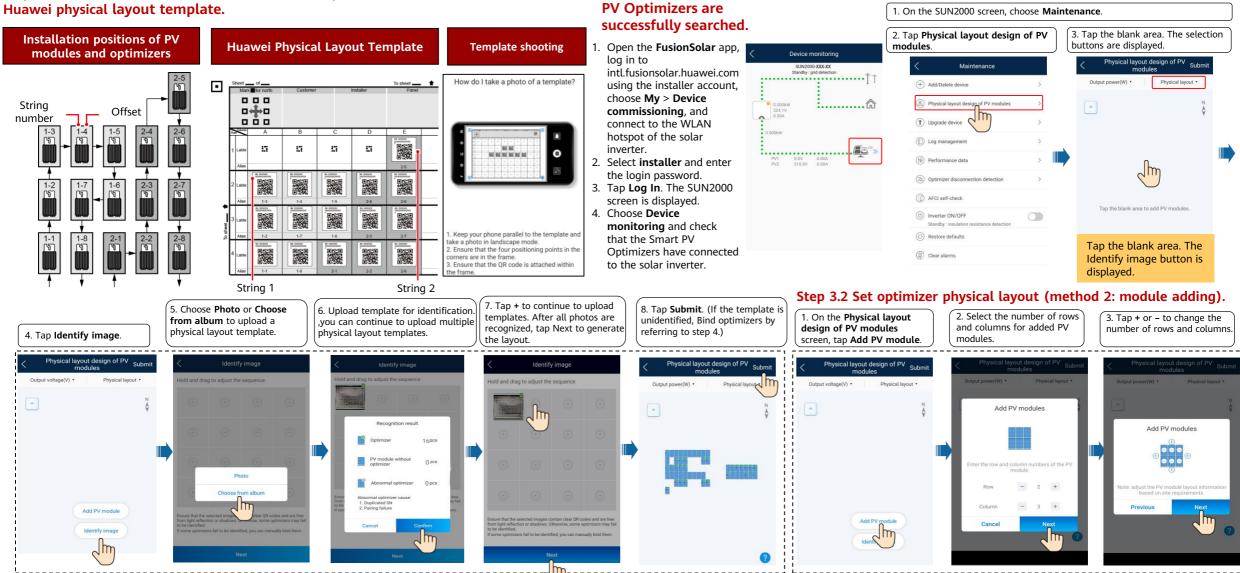




FAQ 1. Physical Layout Design of PV Modules Using Device Commissioning (Optional, for Scenarios with Optimizers)

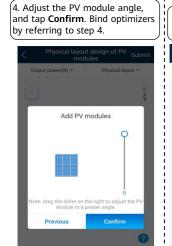
Step 2. Check that the Smart Step 3.1 Set optimizer physical layout (method 1: identify image).

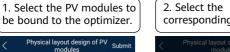
Step 1. Check that the SN labels of the Smart PV Optimizers have been attached to the Huawei physical layout template.

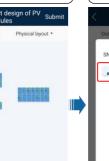


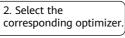
FAQ 1. Physical Layout Design of PV Modules Using Device Commissioning (Optional, for Scenarios with Optimizers)

Step 4. Bind/Unbind Smart PV Optimizers

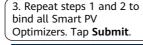














4. Unbind: Select a PV module and tap Unbind.

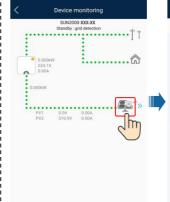


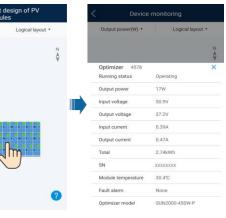
Step 5. Check the Smart PV Optimizer status.

On the SUN2000 screen, choose **Device monitoring** and tap the optimizer. On the Physical layout design of PV modules screen, select the corresponding PV string and check the Smart PV Optimizer status.

Output voltage(V

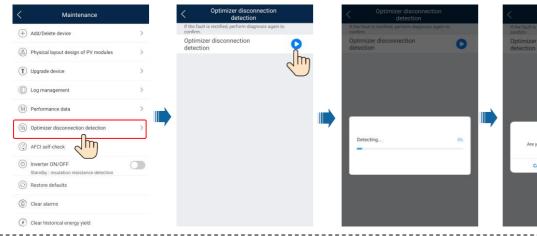
Output current(A

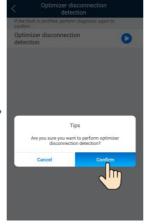




Step 6. Detect optimizer disconnection.

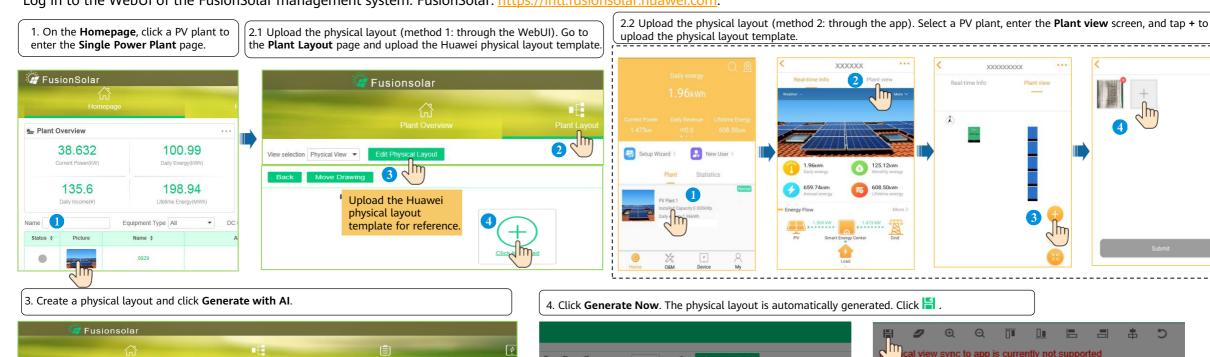
On the Maintenance screen, choose Optimizer disconnection detection, tap the detection button to detect the optimizer disconnection, and rectify the fault based on the detection result.

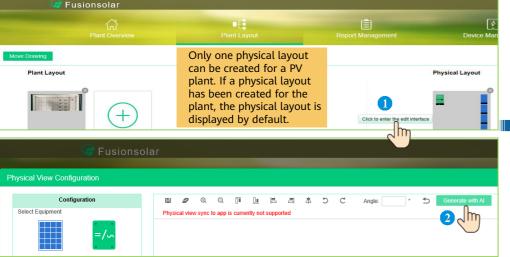


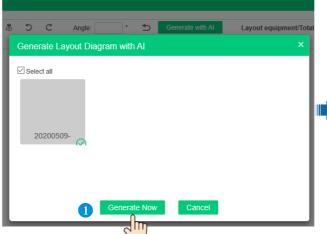


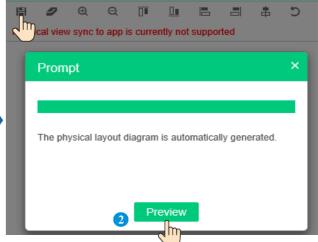
FAQ 2. Physical Layout Design of PV Modules on the FusionSolar WebUI (Optional, for Scenarios with **Optimizers**)

Log in to the WebUI of the FusionSolar management system. FusionSolar: https://intl.fusionsolar.huawei.com.





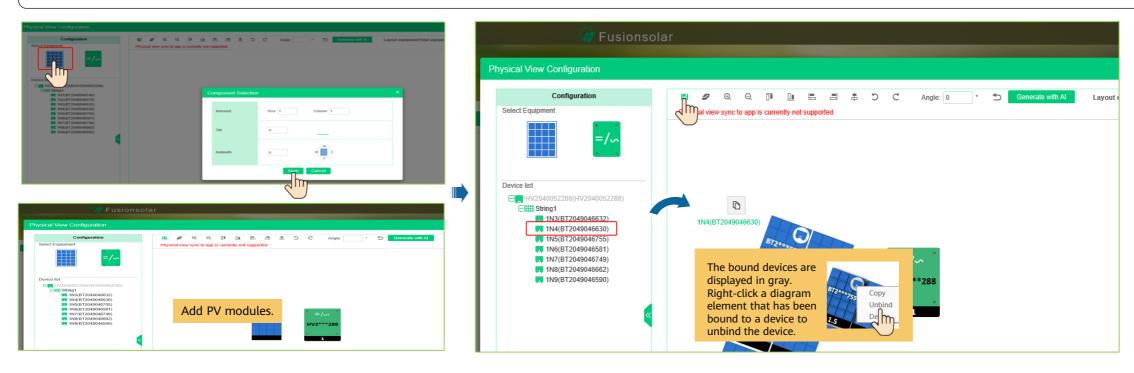




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FAQ 2. Physical Layout Design of PV Modules on the FusionSolar WebUI (Optional, for Scenarios with Optimizers)

5. Manual setting: Drag the PV modules to be created to the physical layout area, select a device in the device list area, and drag the device to the corresponding icon position to bind the device to the icon. You can right-click the device to unbind it. After the settings are complete, click 📔 on the toolbar to save the settings.



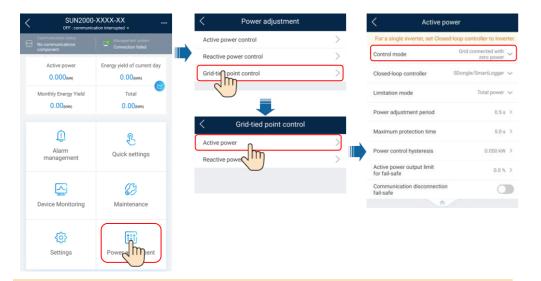
FAQ 3. Setting Export Limitation Parameters

On the SUN2000 screen, Choose **Power adjustment > Grid-tied point control > Active power** to set export limitation parameters.

For a single inverter, set Closed-loop controller to Inverter or SDongle/SmartLogger.

- When Closed-loop controller is set to Inverter, the duration of export limitation is less than 2s.
- When Closed-loop controller is set to SDongle/SmartLogger, the duration of export limitation is less than 5s.

For multiple inverters, **Closed-loop controller** can only be set to **SDongle/SmartLogger**. The duration of export limitation is less than 5s.



After tapping Grid-tied point control, you need to enter the login password again. The initial

□ NOTE

password is 00000a.

For details about the parameters, see the <u>FusionSolar App and SUN2000 App User Manual</u>. You can scan the QR code to obtain it.

FAQ 4. Setting Voltage Rise Suppression Q-U Curve

On the SUN2000 screen, Choose **Settings** > **Feature parameters** to set voltage rise suppression Q-U curve.

