

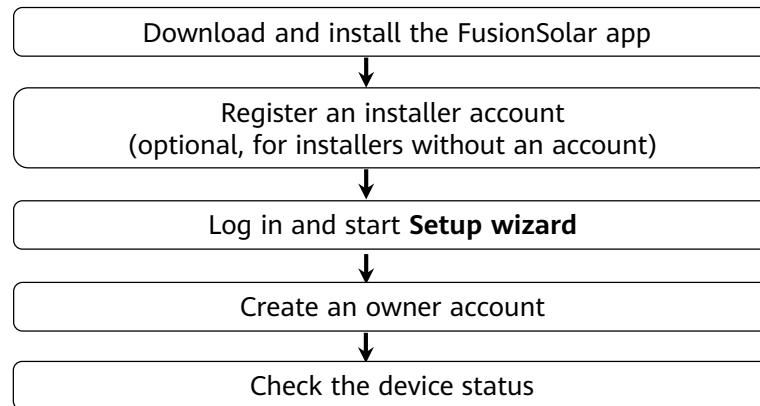
FusionSolar App Quick Guide

Issue: 09

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FusionSolar App Quick Settings Operation Procedure



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- The figures are for reference only.
- The initial password for connecting the inverter WLAN is **Changeme**.
- The initial password for connecting to the Smart USB-WLAN adapter is **Changeme**.
- The initial password for the **installer** account is **00000a**. If the system prompts you to change password, set a new password and then log in to the system.
- Some device do not support the initial password. You need to set the initial password upon the first connection. Set the password before log in to the system.
- 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.
- SDongleB-06+Commercial inverter (without WLAN module)
- Inverter with a SmartLogger for local commissioning

1. Downloading and Installing the FusionSolar App

Method 1: Download and install the app from the app store.

- Huawei phone users: Search for *FusionSolar* in Huawei AppGallery.
- iPhone users: Search for *FusionSolar* in the App Store.
- Other mobile phone users: Select method 2.

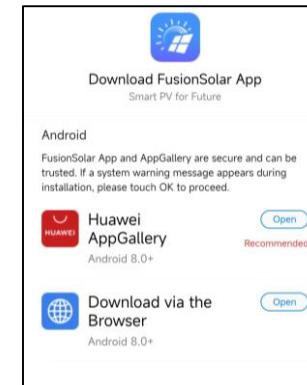


Method 2: Scan the QR code to download and install the app.



Users who select method 2 can select the download method based on the mobile phone type.

- Huawei mobile phone users: Download from Huawei AppGallery.
- Non-Huawei phone users: Download on a browser.

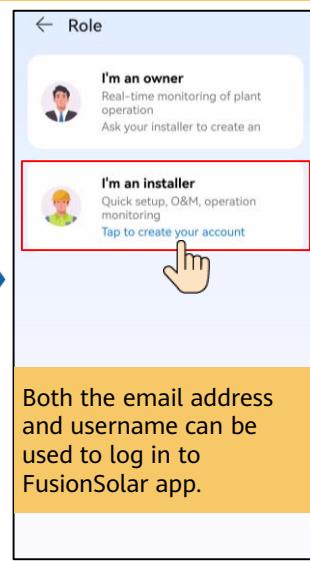
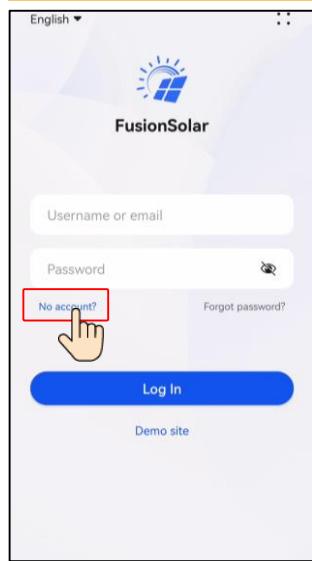


Note:

When you select **Download via the Browser**, if a security warning message is displayed indicating that the app is from an external source, tap **ALLOW**.

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

Register the first installer account and create a company account.



To create multiple installer accounts for the same company, log in to the FusionSolar app to Add User or Invite User.

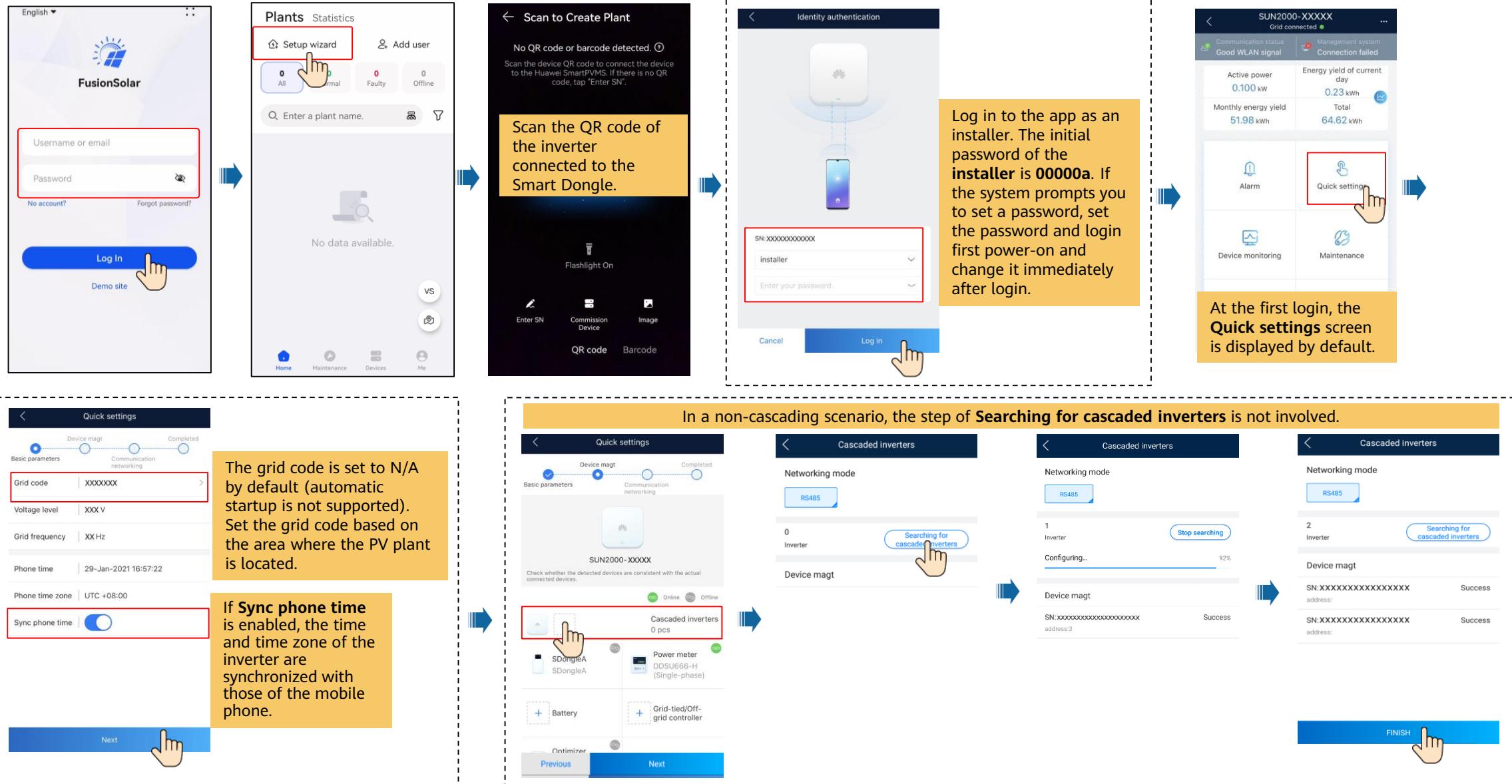
This diagram illustrates the process of adding a user. It starts with the FusionSolar app's login screen, where the 'Log In' button is highlighted. An arrow leads to the 'Plants Statistics' screen, which shows a 'Add user' button highlighted with a red box and a hand cursor icon. Another arrow leads to the 'Add user' details screen, where various fields like 'Service provider', 'Role', 'Plant Association', 'Username', 'Avatar', 'Country/Region code', 'Mobile number', and 'Email' are shown. A note at the bottom states: 'I have obtained the owner's authorization. You must have obtained owner's authorization for any third-party personal information that you provide here.' The 'Save' button is highlighted with a hand cursor icon.

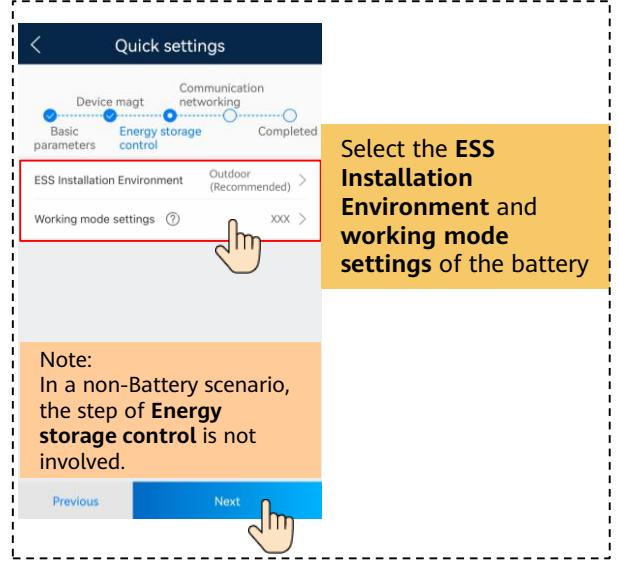
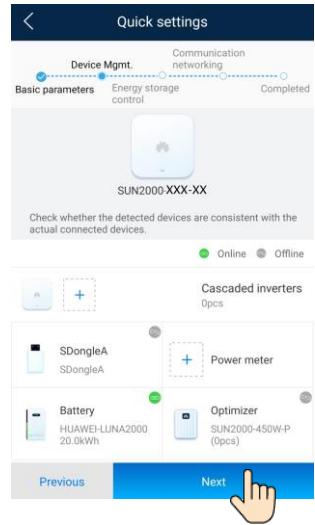
This diagram illustrates the process of inviting a user. It starts with the 'Plants Statistics' screen, which shows an 'Invite User' button highlighted with a red box and a hand cursor icon. An arrow leads to the 'Invite User' details screen, where fields for 'Service provider', 'Role', 'Plant Association', and 'Email' are shown. A note at the bottom states: 'I have obtained the owner's authorization. You must have obtained owner's authorization for any third-party personal information that you provide here.' The 'Save' button is highlighted with a hand cursor icon.

Note:
In some regions, the function of inviting users is not supported. The actual page prevails.

3. Log in and Start Setup Wizard

• WLAN/FE SDongle+Built-in WLAN of the Inverter





Set network parameters and domain name.

WLAN communication

Enabled **Monitor the PV plant through the management system.**

Set the **Domain name** to **intl.fusionsolar.huawei.com** and **Port number** to **27250**.

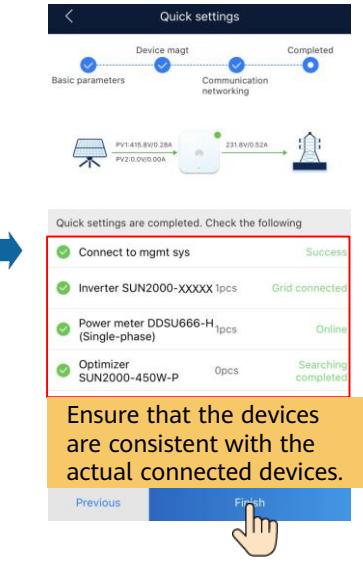
Select a router that can connect to the Internet and enter the router password.

FE communication

Enabled **Monitor the PV plant through the management system.**

Set the **Domain name** to **intl.fusionsolar.huawei.com** and **Port number** to **27250**.

If **Ethernet** is disabled, the network cable is not connected. Reconnect the network cable.



Add a plant.

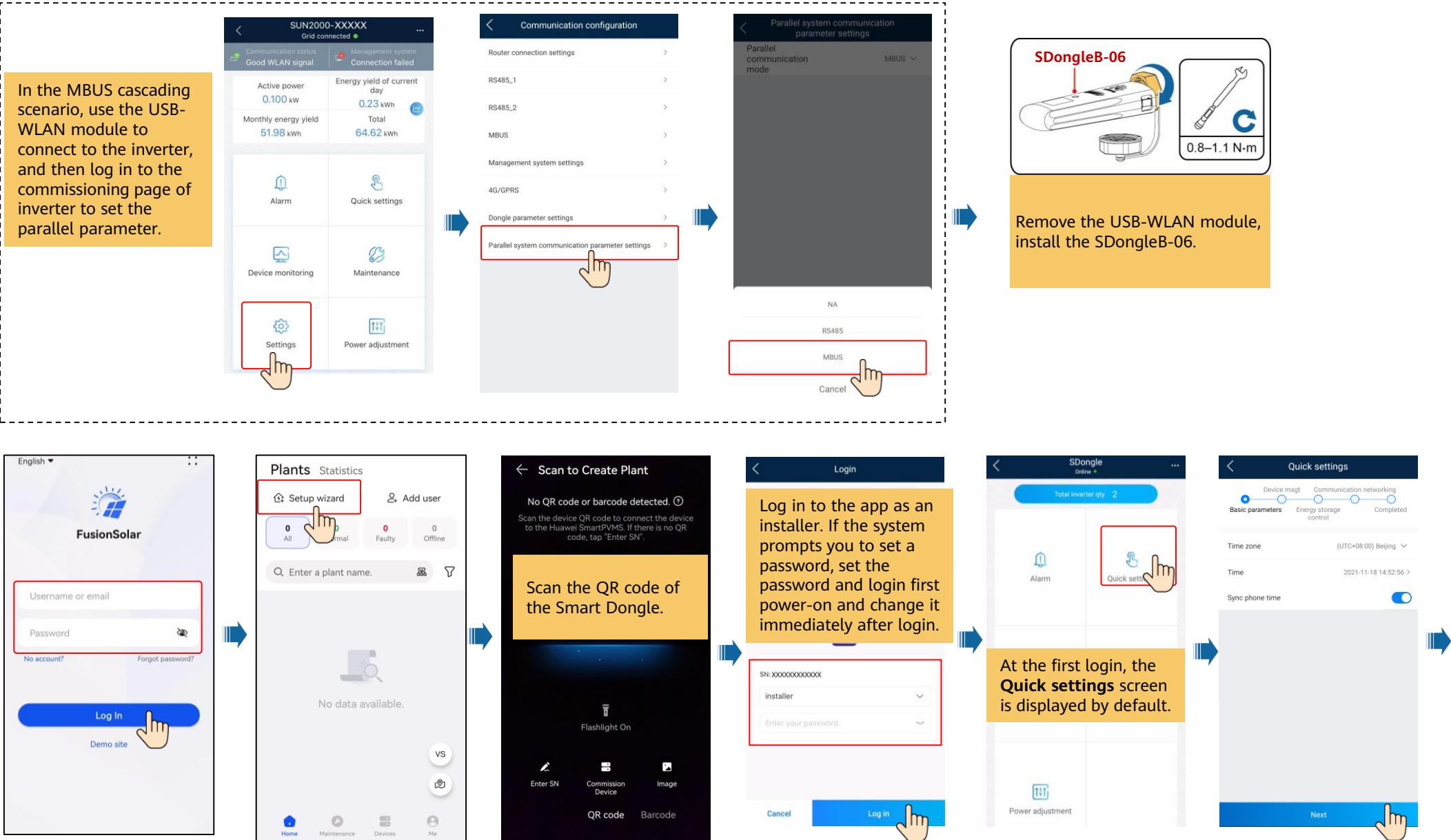
Create plant

Add plant

Add plant

5

• SDongleA-05+Distributed inverter/SDongleB-06+Commercial inverter (without WLAN module)



In cascading scenarios, you need to manually search for cascaded inverters.

RS485 scenarios

MBUS scenarios

Upload the SN file to search for cascaded inverters. (On the app connection page, click MBUS whitelist to generate an SN file.)

The grid code is set to N/A by default (automatic startup is not supported). Set the grid code based on the area where the PV plant is located.

Select the working mode settings of the battery

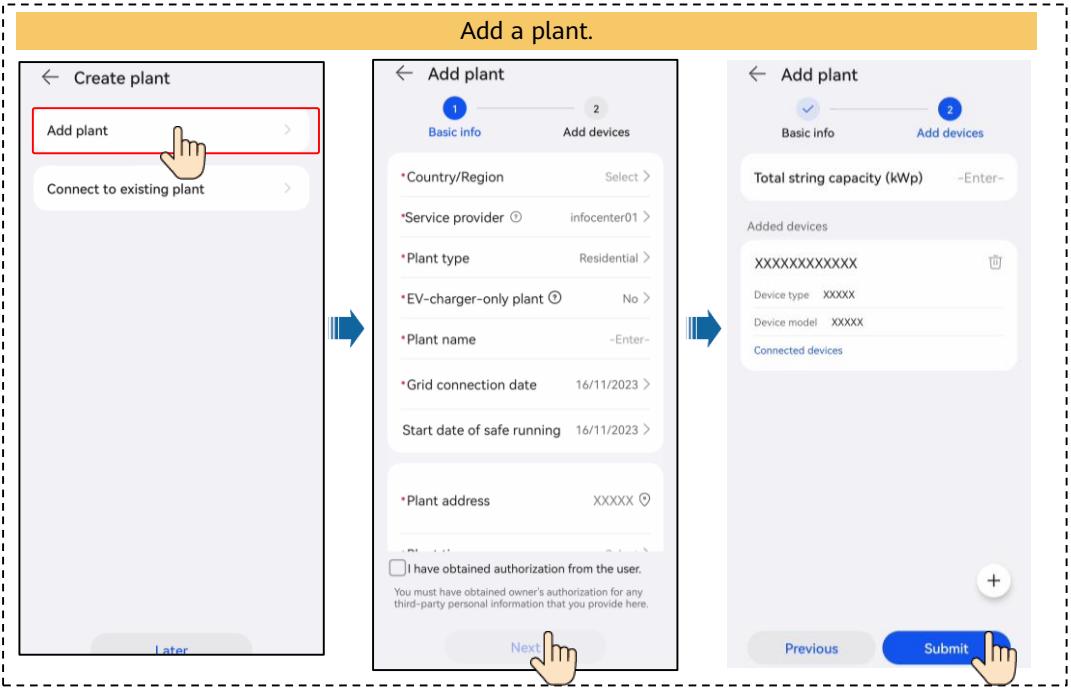
Note:
In a non-Battery scenario, the step of **Energy storage control** is not involved.

Set communication parameters based on the actual networking scenario.

Networking	Parameters
FE communication	DHCP is enabled by default. If the router does not support DHCP, disable DHCP and manually assign an IP address.
WLAN communication	Select the router you want to connect to, enter the password, and tap Connect Router.
4G communication	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.

Set the **Domain name** to **intl.fusionsolar.huawei.com** and **Port number** to **27250**.

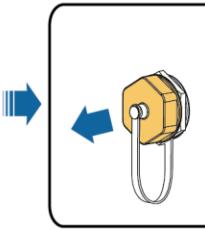
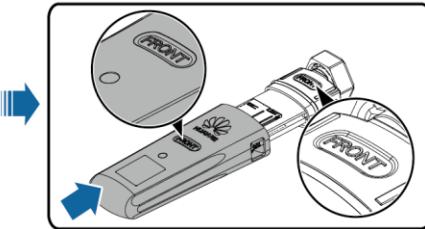
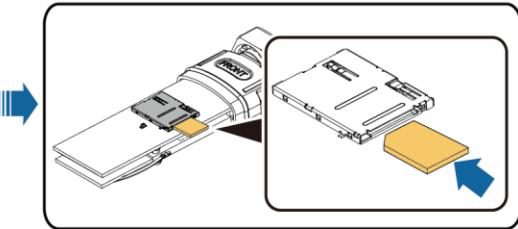
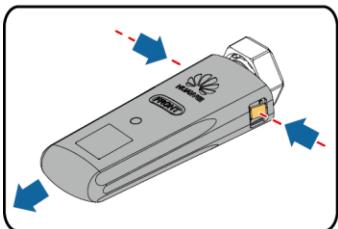
Previous **Finish**



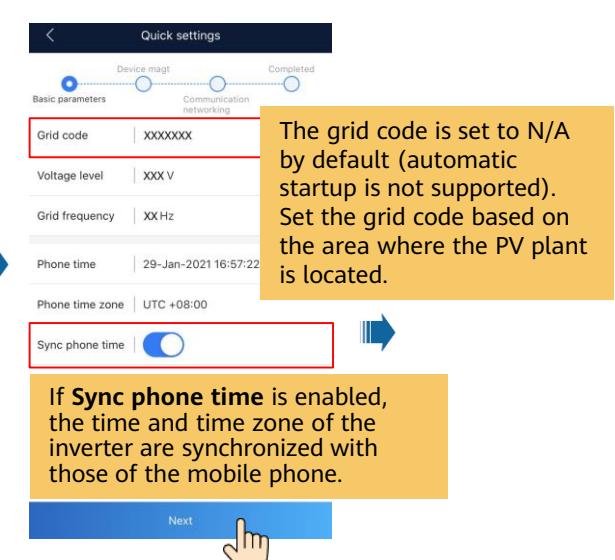
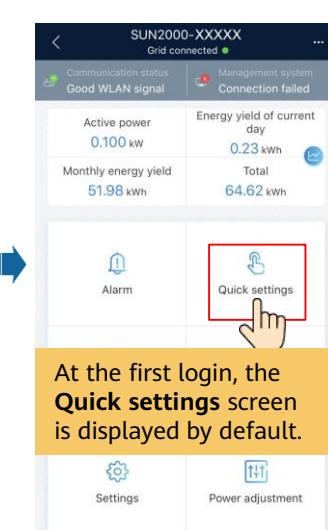
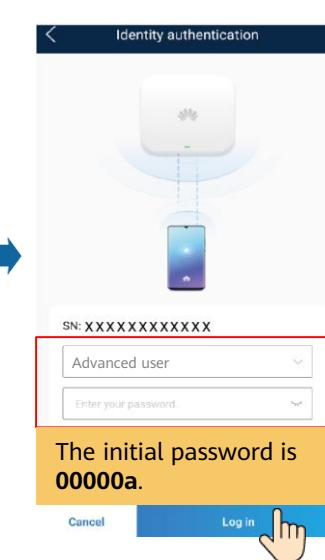
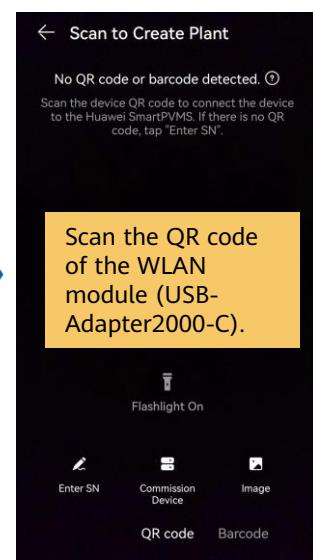
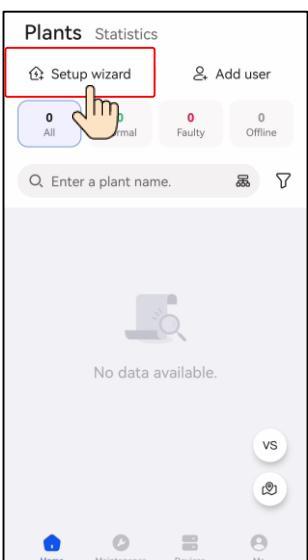
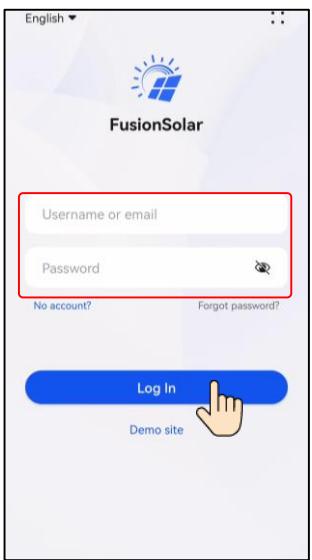
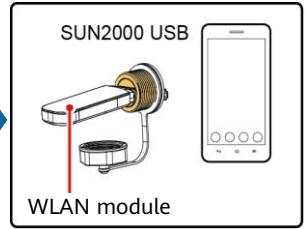
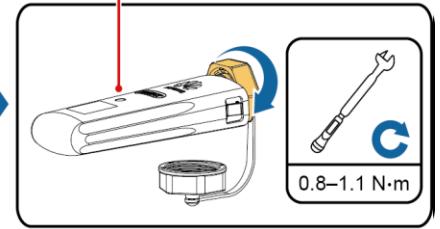
• Local Commissioning Using a Smart USB-WLAN Adapter

Note:

Before commissioning a commercial inverter, connect the 4G Smart Dongle to identify parameters. If the indicator status is normal, remove the Smart Dongle, and then connect the USB-WLAN adapter to start commissioning.

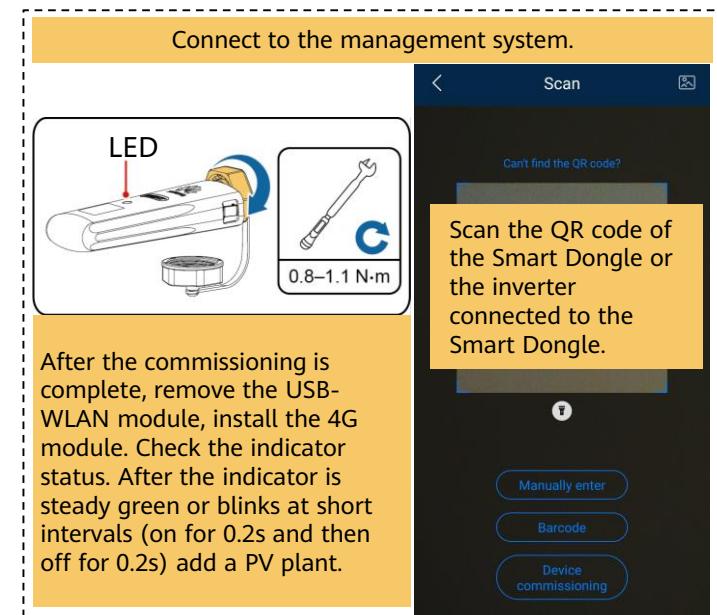
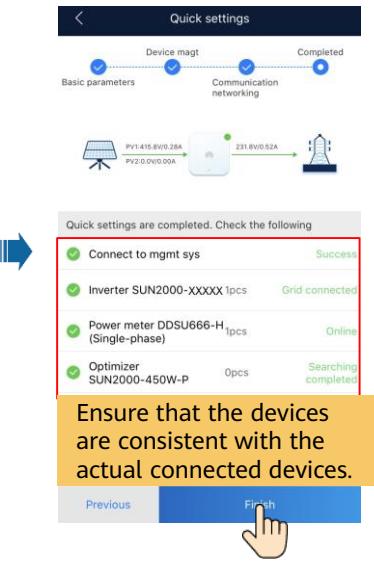
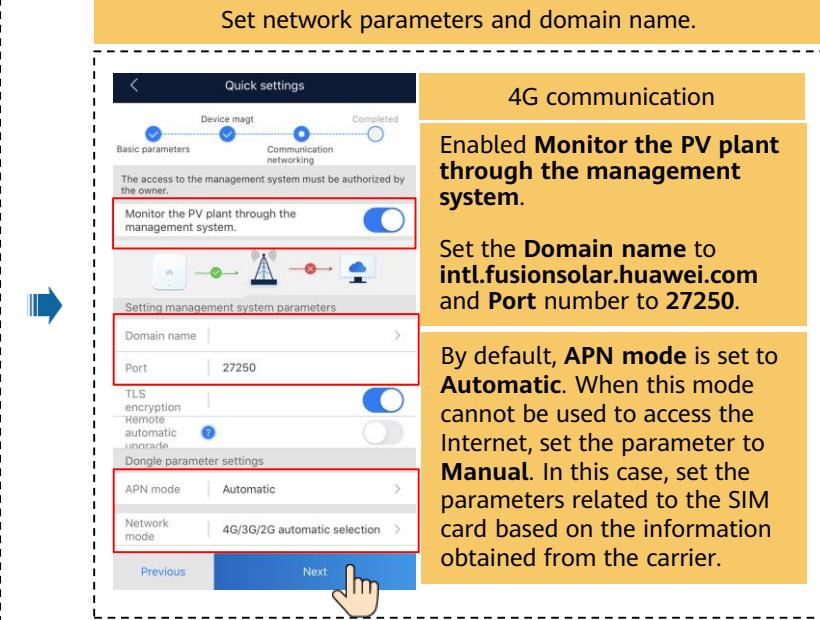
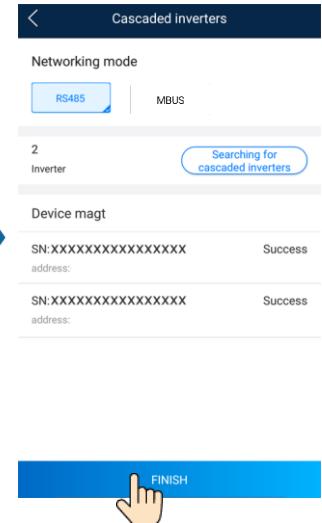
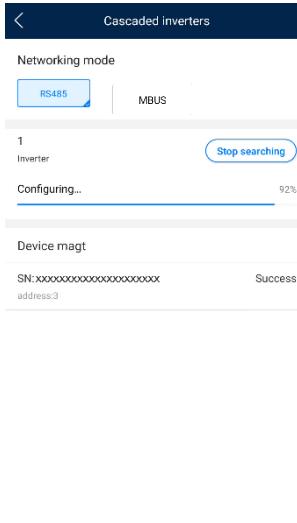
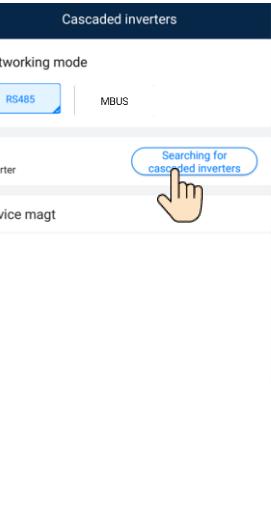
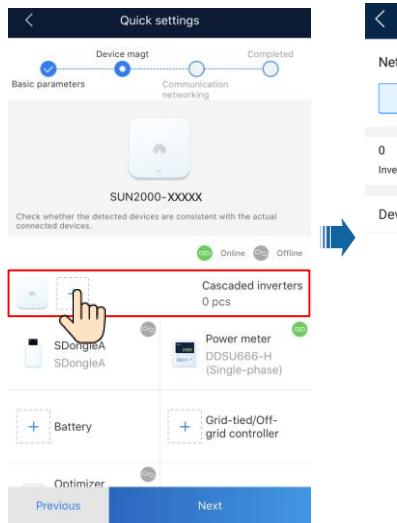


Check the indicator status. When the indicator blinks green at an interval of 2s (on for 0.1s and then off for 1.9s), remove the 4G Smart Dongle.



If Sync phone time is enabled, the time and time zone of the inverter are synchronized with those of the mobile phone.

In a non-cascading scenario, the step of **searching for cascaded inverters** is not involved.



Add a plant.

Create plant

Add plant 

Connect to existing plant >

Add plant

1 Basic info 2 Add devices

*Country/Region Select >

*Service provider infocenter01 >

*Plant type Residential >

*EV-charger-only plant No >

*Plant name -Enter-

*Grid connection date 16/11/2023 >

Start date of safe running 16/11/2023 >

*Plant address XXXXX 

I have obtained authorization from the user.
You must have obtained owner's authorization for any third-party personal information that you provide here.

Later

Next 

Submit 

Add a plant

1 Basic info 2 Add devices

Total string capacity (kWp) -Enter-

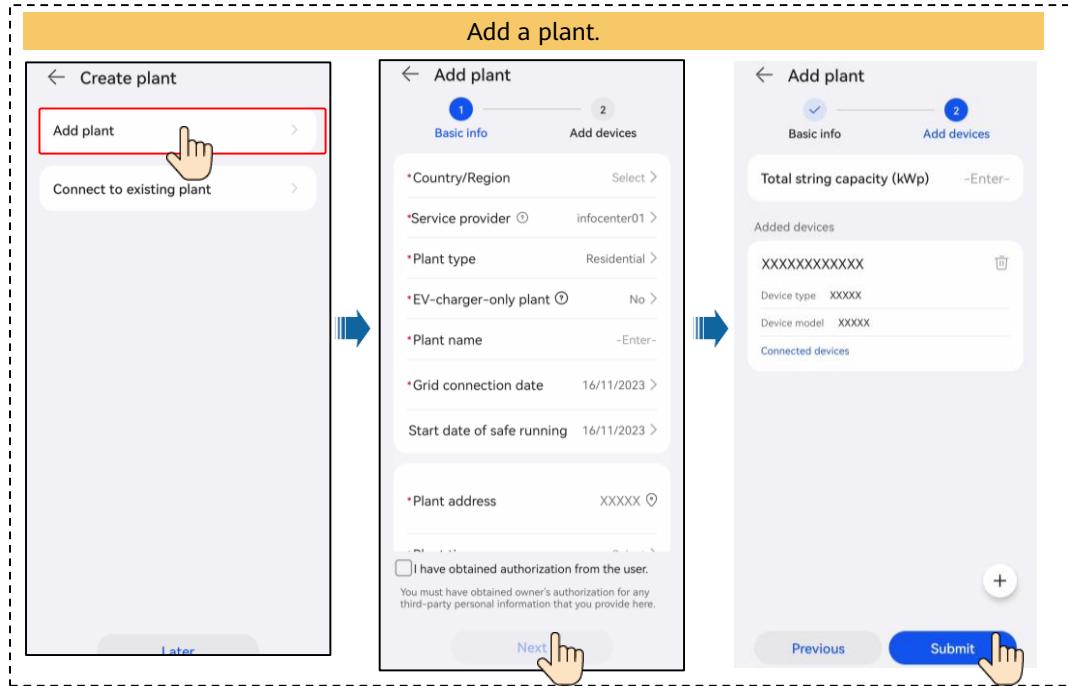
Added devices
XXXXXXXXXXXX 

Device type XXXXX

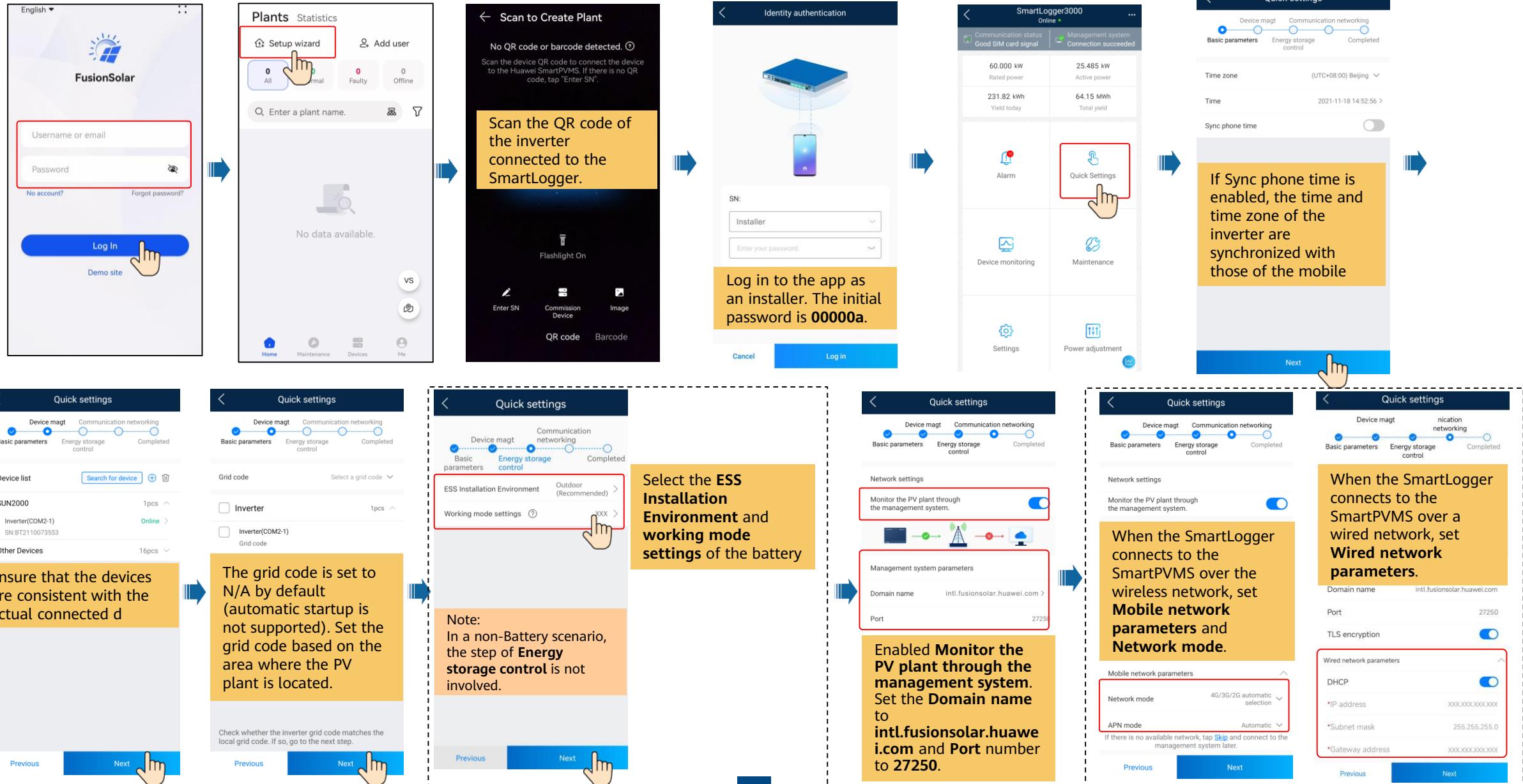
Device model XXXXX

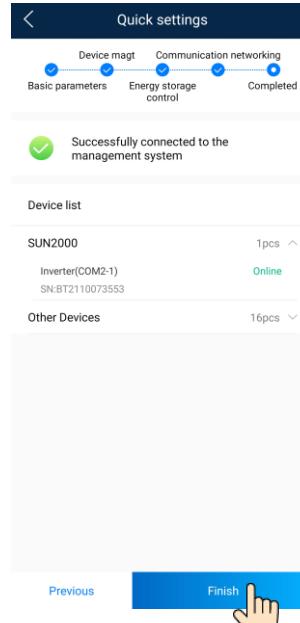
Connected devices 

Previous Submit



• Local Commissioning Using the SmartLogger of the Inverter



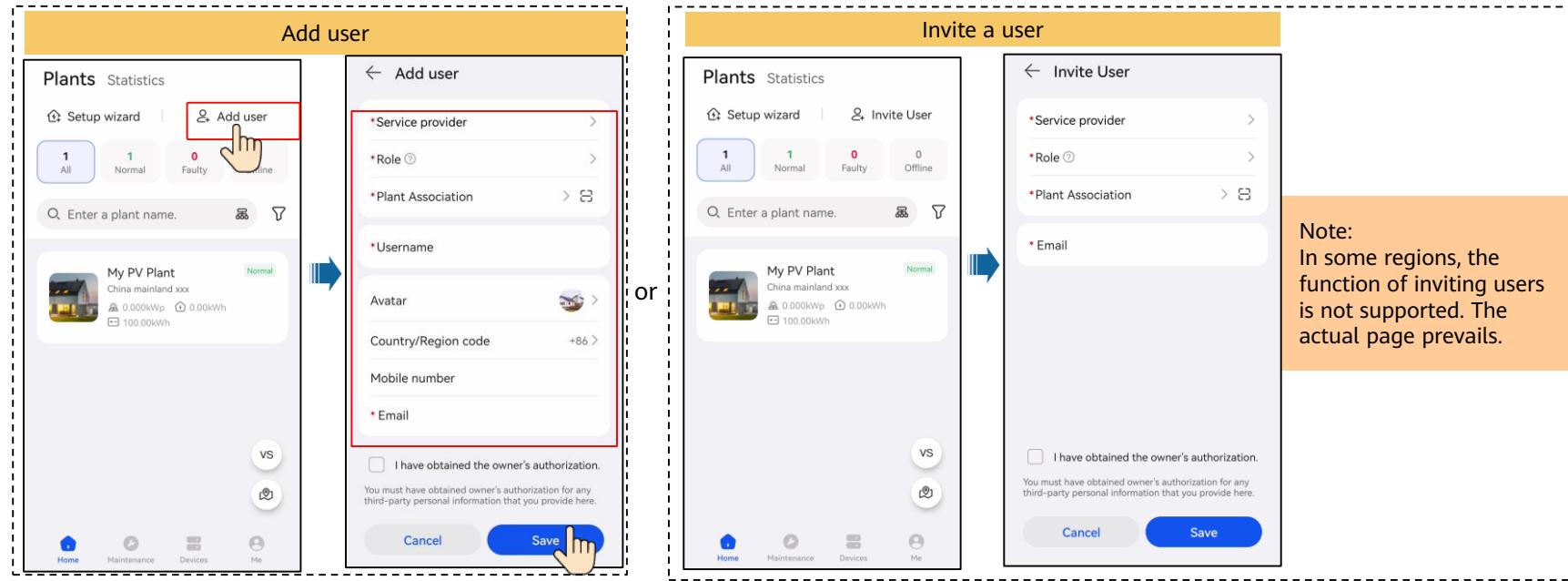


The screenshot shows three steps of the 'Add a plant' wizard:

- Create plant:** Shows 'Add plant' and 'Connect to existing plant' options. A hand cursor is hovering over the 'Add plant' button, which is highlighted with a red border.
- Add plant:** Step 1 of 2, titled 'Basic Info'. Fields include: Country/Region (Select), Service provider (infocenter01), Plant type (Residential), EV-charger-only plant (No), Plant name (-Enter-), Grid connection date (16/11/2023), Start date of safe running (16/11/2023), and Plant address (XXXXX). A checkbox for 'I have obtained authorization from the user' is present. A 'Next' button is at the bottom.
- Add plant:** Step 2 of 2, titled 'Add devices'. Fields include: Total string capacity (kWp) (-Enter-), Added devices (XXXXXX), Device type (XXXXX), Device model (XXXXX), and Connected devices. A '+' button is available for adding more devices. A 'Submit' button is at the bottom.

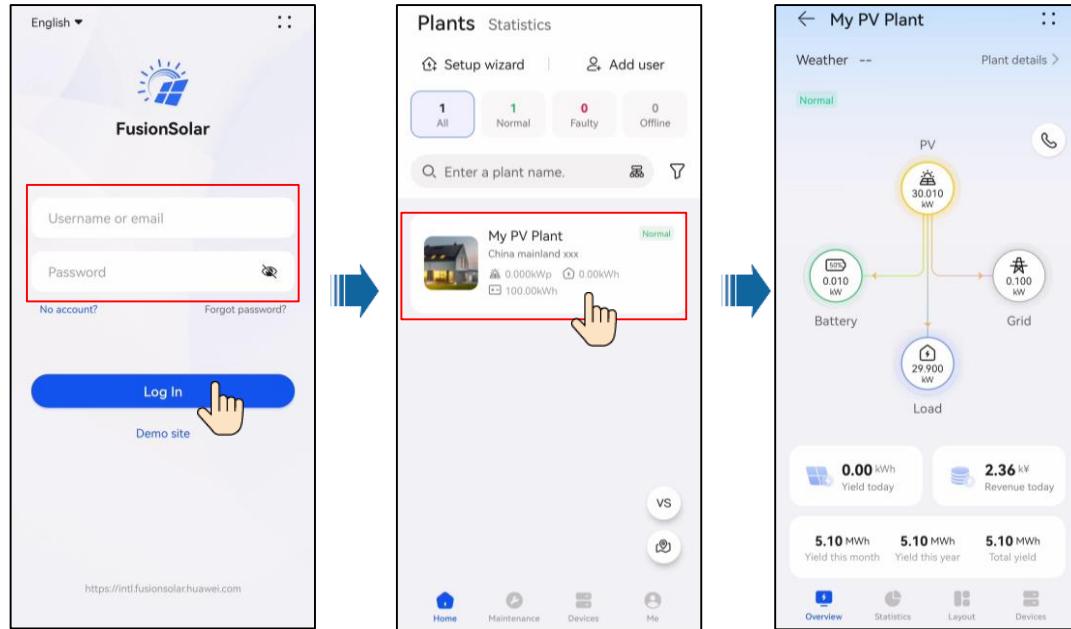
Blue arrows indicate the flow from the first step to the second, and from the second step to the third.

4. Create an owner account



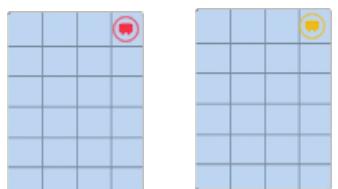
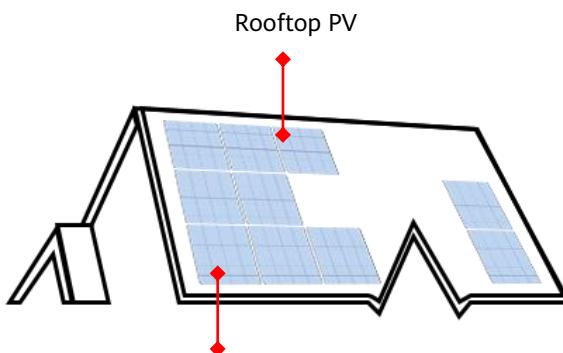
5. Checking the Device Status

- **Checking the Device Status Using Device Commissioning**

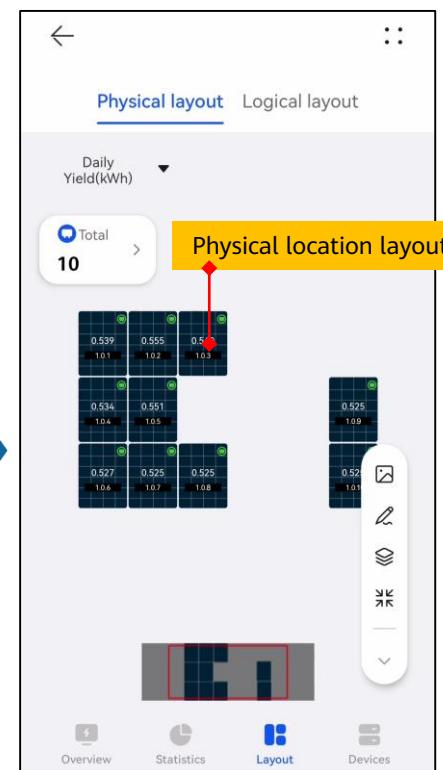


FAQ. Physical Layout Design (With Optimizers)

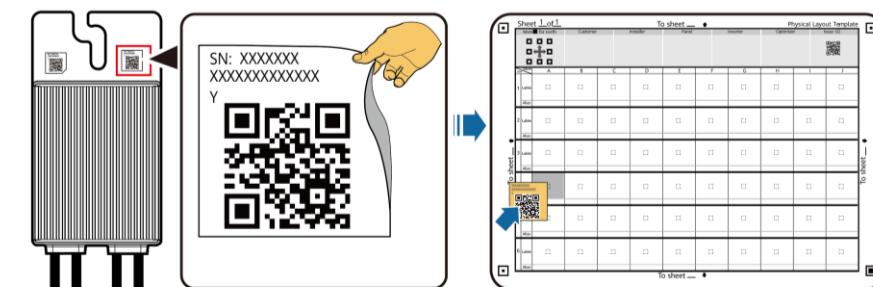
1. The physical layout must be configured for optimizers. When an optimizer is faulty, it can be quickly located and replaced based on the physical layout.
2. The optimizer disconnection detection is available only after the physical layout is complete. Perform optimizer disconnection detection and view the result on the **Optimizer layout** screen.



Fault indication Disconnection indication

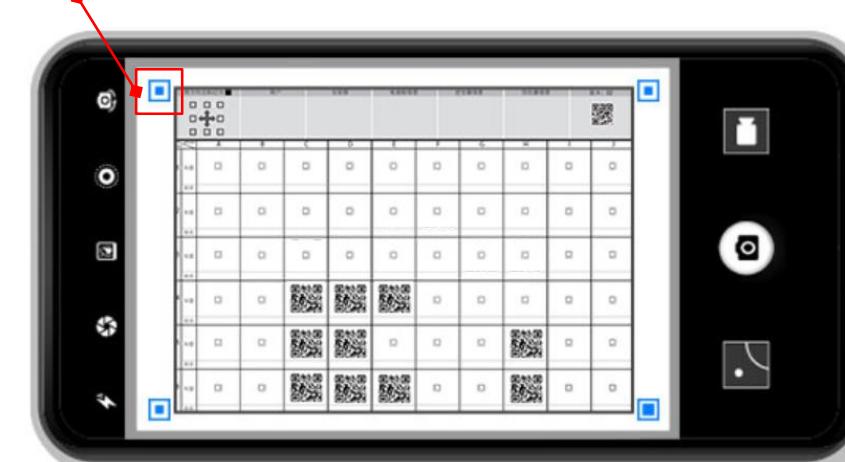


Step 1 After determining the installation position of an optimizer, remove the SN label from the optimizer and attach it to the physical layout template.



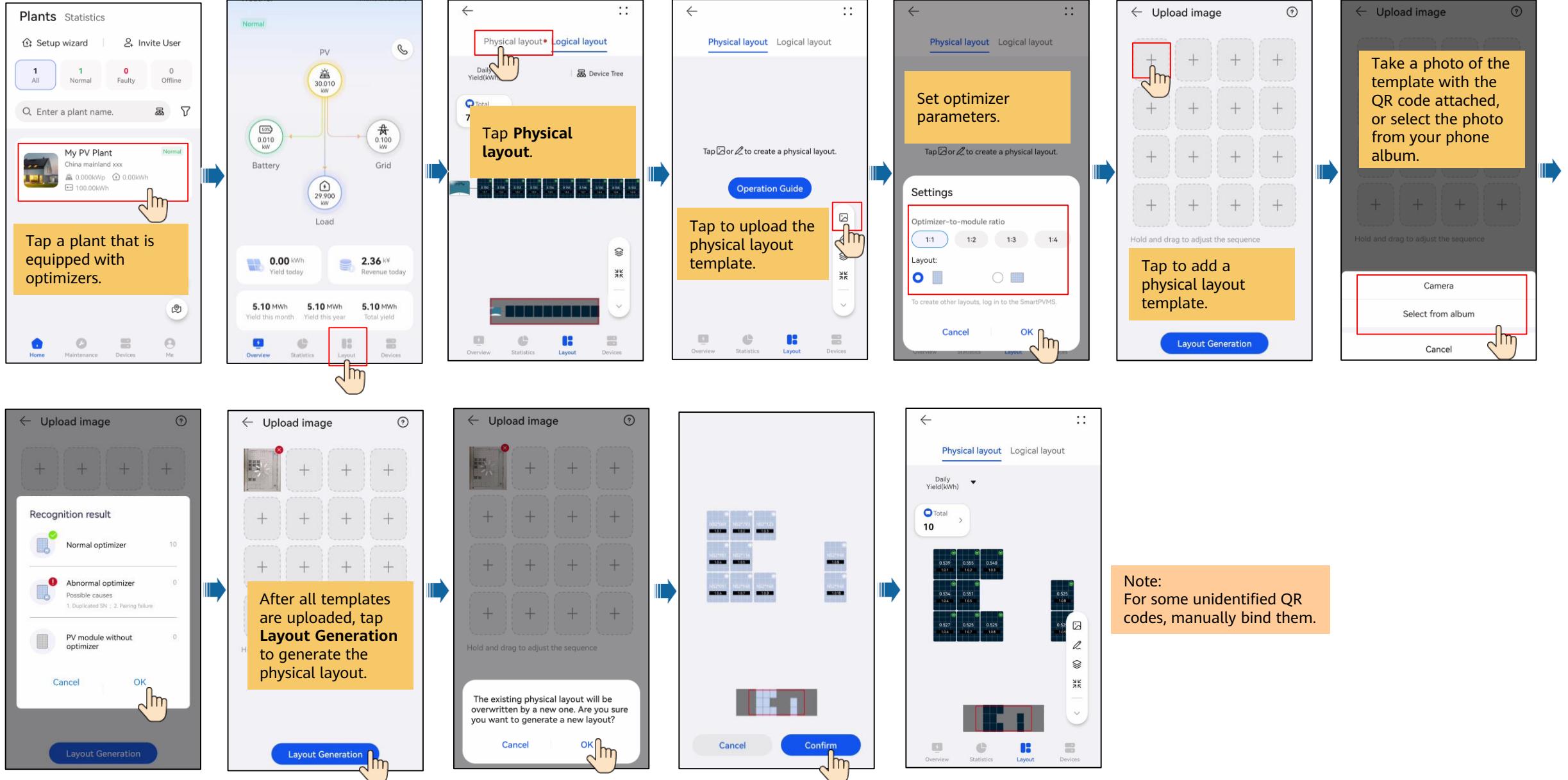
Step 2 Take a photo of the template with the QR code attached.

Positioning point for photographing



Note: Ensure that the four positioning points on the template are within the frame.

FAQ . Physical Layout Design



Indicators on the Smart Dongle

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.
	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.
Red	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.
Blinking red and green alternatively	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)	Normal	No communication with the inverter <ul style="list-style-type: none"> • 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)		The Dongle is being upgraded locally.