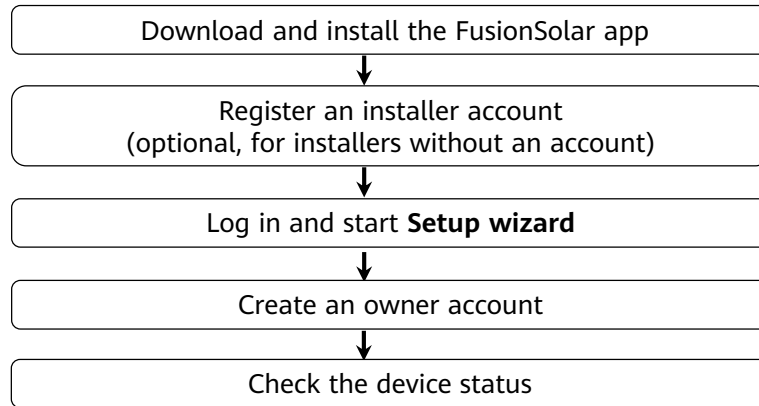


FusionSolar App Quick Settings Operation Procedure



- 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.

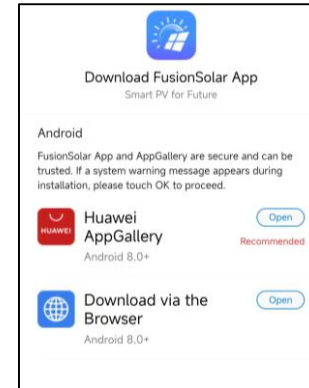


Method 2: Scan the QR code to download and install the app.



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.

Both the email address and username can be used to log in to FusionSolar app.

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

Add user

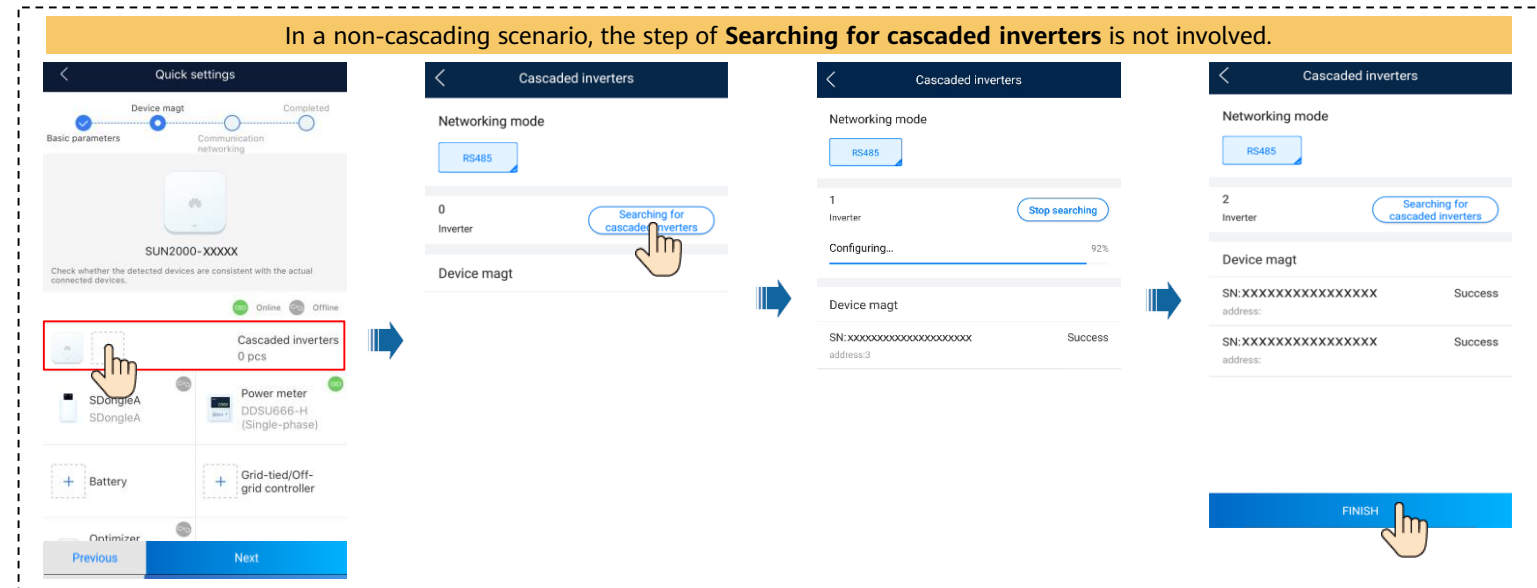
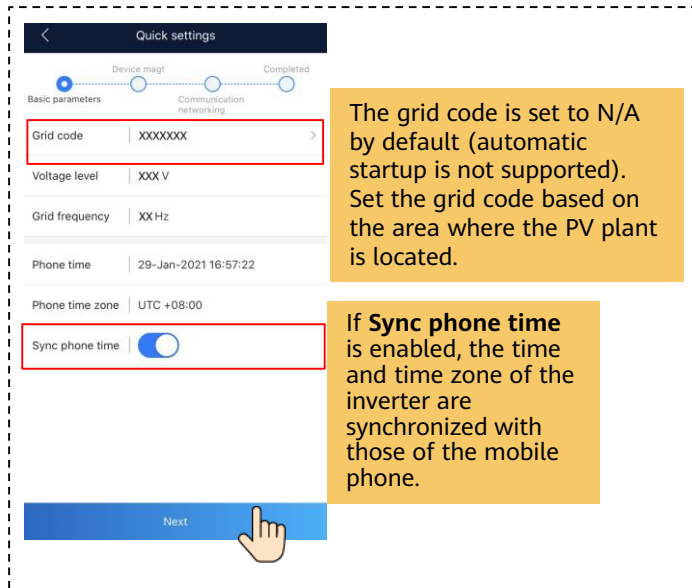
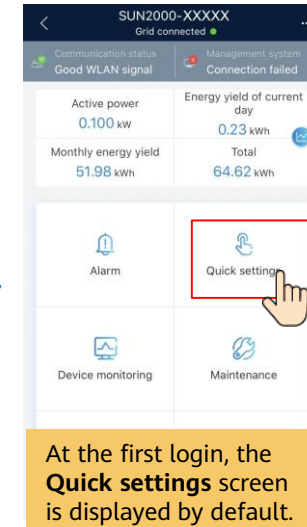
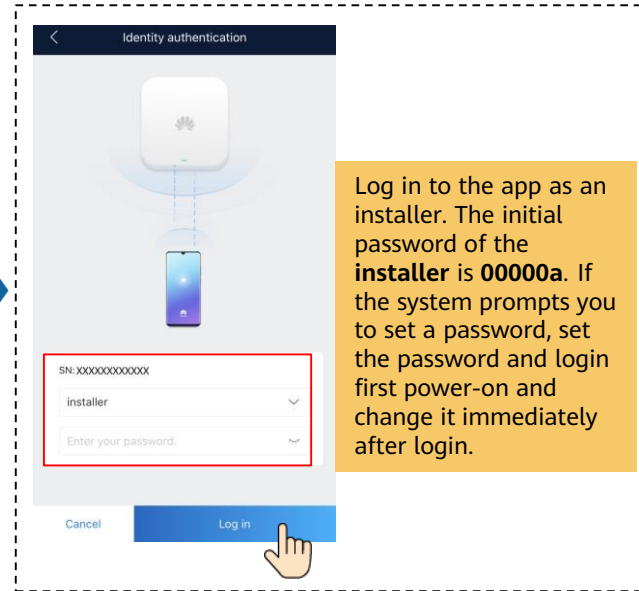
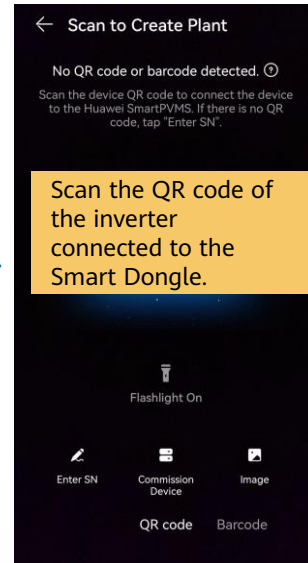
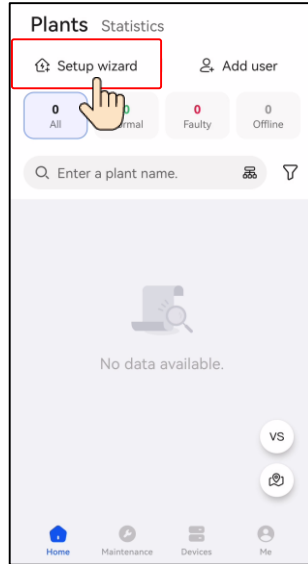
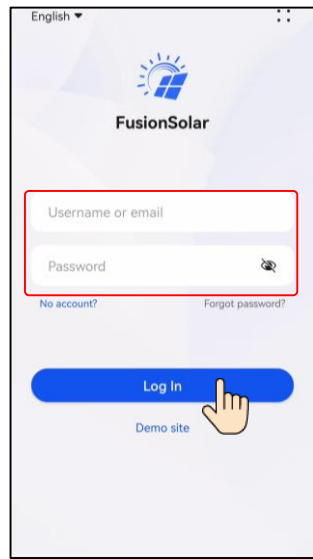
Note: I have obtained the owner's authorization.

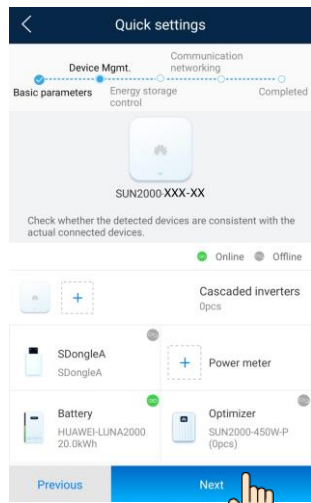
Invite a user

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**





Quick settings

Device magt. Communication networking

Basic parameters Energy storage control Completed

SUN2000 XXX-XX

Check whether the detected devices are consistent with the actual connected devices.

Online Offline

Cascaded inverters 0pcs

SDongleA Power meter

Battery Optimizer

Previous Next

Select the ESS Installation Environment and working mode settings of the battery

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

Set network parameters and domain name.

Quick settings

Device magt. Communication networking

Basic parameters Completed

Monitor the PV plant through the management system.

Dongle

Setting management system parameters

Domain name Port 27250

TLS encryption Remote automatic upgrade

Setting parameters for the inverter to connect to the router

WLAN LTE-2.4GHz-07DCE8 Password

Previous Next

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.

Quick settings

Device magt. Communication networking

Basic parameters Completed

The access to the management system must be authorized by the owner.

Monitor the PV plant through the management system.

Dongle

Setting management system parameters

Domain name Port 27250

TLS encryption Remote automatic upgrade

Setting parameters for the inverter to connect to the router

DHCP

Previous Next

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.



Quick settings

Device magt. Communication networking

Basic parameters Completed

The access to the management system must be authorized by the owner.

Monitor the PV plant through the management system.

Dongle

Signal strength Strong(-32dBm)

IP address xxx.xxx.xxx.xxx

Subnet mask xxx.xxx.xxx.xxx

Gateway xxx.xxx.xxx.xxx

MAC address c0:a8:a9:01

Previous Next

Quick settings are completed. Check the following

- Connect to mgmt sys Success
- Inverter SUN2000-XXXX 1pcs Grid connected
- Power meter DDSU666-H 1pcs Online
- Optimizer SUN2000-450W-P 0pcs Searching completed

Previous Finish

Ensure that the devices are consistent with the actual connected devices.

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.

Next

Add plant

Basic info Add devices

Total string capacity (kWp) -Enter-

Added devices

XXXXXXXXXXXX

Device type XXXXX

Device model XXXXX

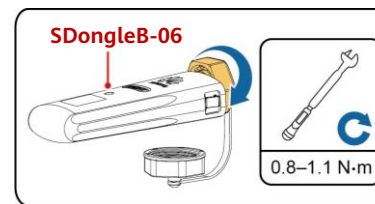
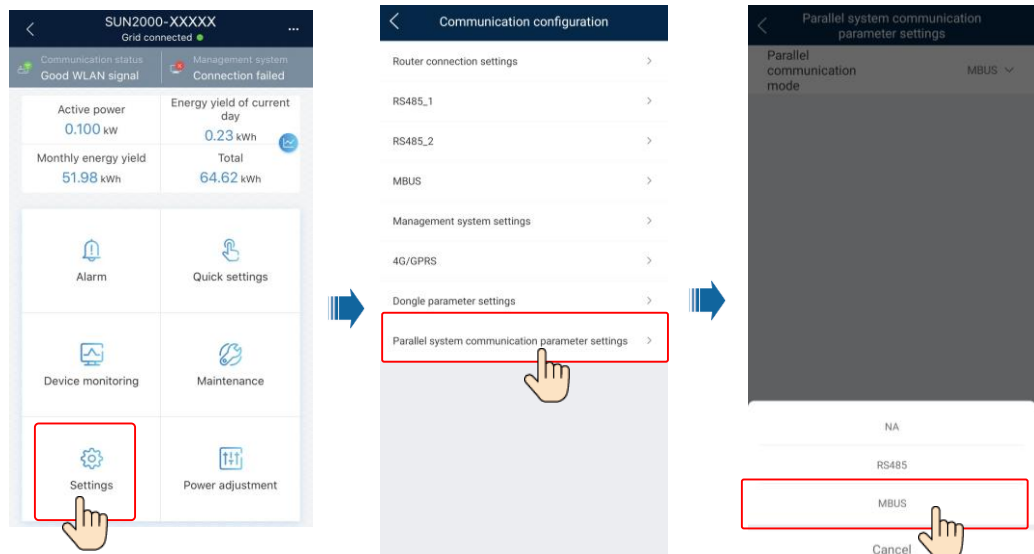
Connected devices

Previous Submit

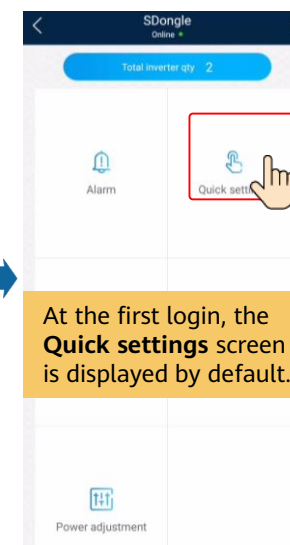
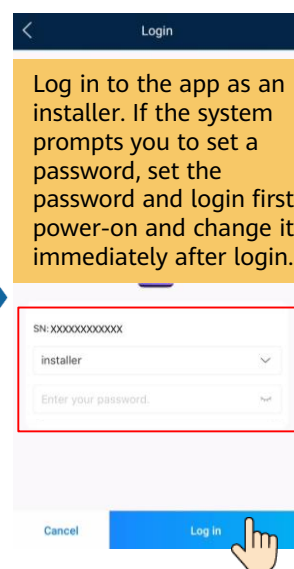
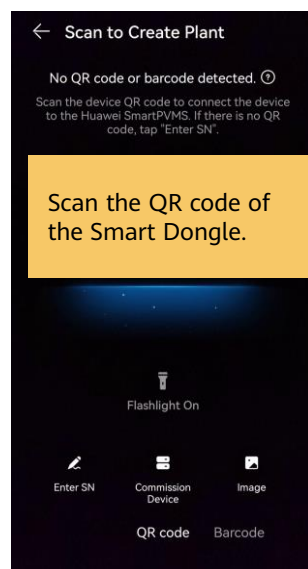
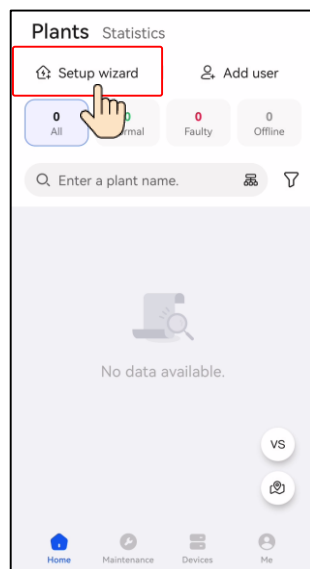
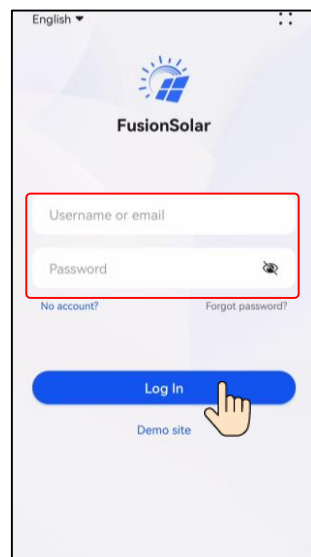
5

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

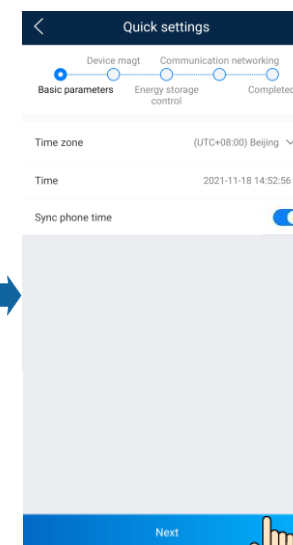
In the MBUS cascading scenario, use the USB-WLAN module to connect to the inverter, and then log in to the commissioning page of inverter to set the parallel parameter.



Remove the USB-WLAN module, install the SDongleB-06.



At the first login, the **Quick settings** screen is displayed by default.



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

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

RS485 scenarios

MBUS scenarios

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.

Check whether the inverter grid code matches the local grid code. If so, go to the next step.

Select the **working mode settings** of the battery

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

Monitor the PV plant through the management system.

Setting management system parameters

Domain name

Port

TLS encryption

Dongle parameter settings

APN mode

Network mode

Wired network parameters

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**.

Successfully connected to the management system

Device list

SUN2000

SUN2000-40KTL-M0

SN:6T2229020544

Connected device

Add a plant.

← Create plant

Add plant >

Connect to existing plant >

Later

← 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.

Next

← Add plant

Basic info Add devices

Total string capacity (kWp) -Enter-

Added devices

XXXXXXXXXXXXX

Device type XXXXX

Device model XXXXX

Connected devices

+

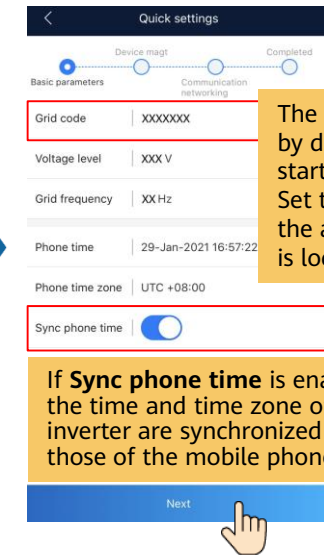
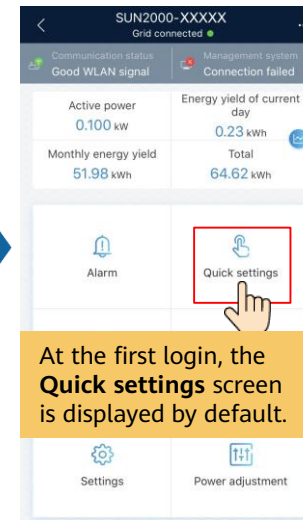
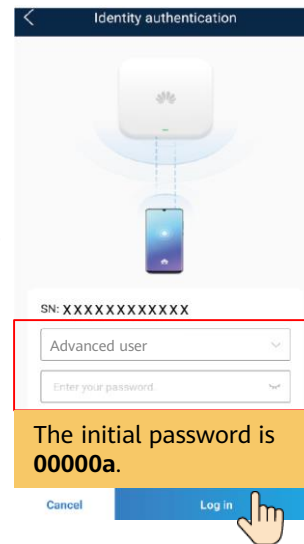
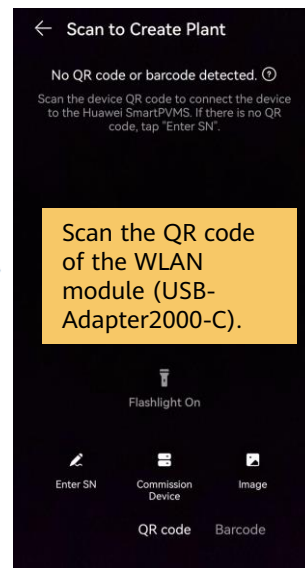
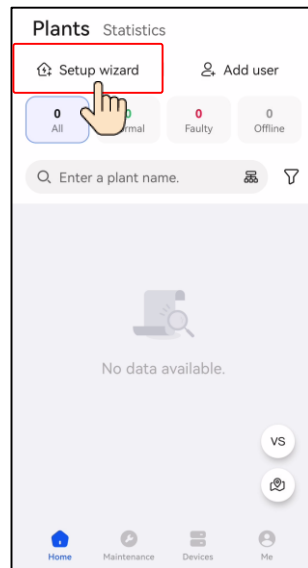
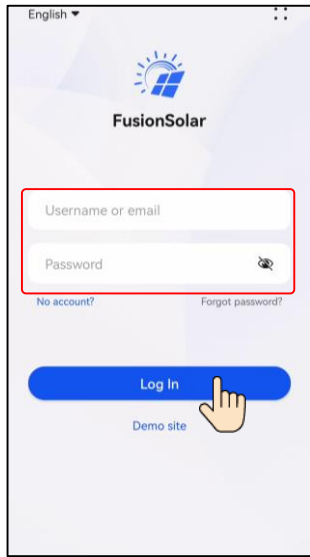
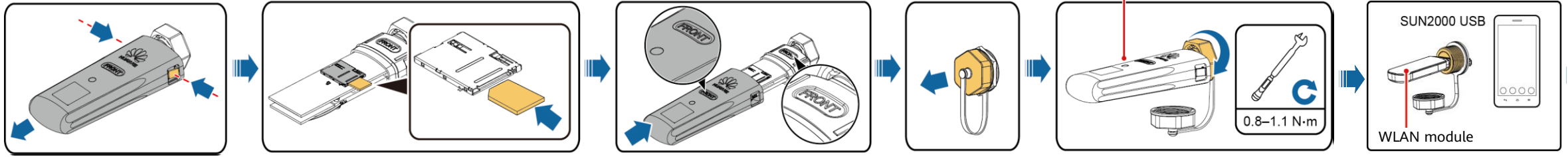
Previous Submit

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.



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

Quick settings

Device magt

Completed

Basic parameters

Communication networking

SUN2000-XXXXX

Check whether the detected devices are consistent with the actual connected devices.

Online Offline

Cascaded inverters 0 pcs

SDongleA

Power meter DDSU666-H (Single-phase)

Battery

Grid-tied/Off-grid controller

Optimizer

Previous Next

Cascaded inverters

Networking mode

RS485 MBUS

0 Inverter

Searching for cascaded inverters

Device magt

Cascaded inverters

Networking mode

RS485 MBUS

1 Inverter

Stop searching

Configuring... 92%

Device magt

SN:XXXXXXXXXXXXXXXXXX address: Success

SN:XXXXXXXXXXXXXXXXXX address:3 Success

FINISH

Set network parameters and domain name.

Quick settings

Device magt

Completed

Basic parameters

Communication networking

The access to the management system must be authorized by the owner.

Monitor the PV plant through the management system.

Setting management system parameters

Domain name intl.fusionsolar.huawei.com

Port 27250

Dongle parameter settings

APN mode Automatic

Network mode 4G/3G/2G automatic selection

Previous Next

4G communication

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.

Connect to the management system.

LED

0.8-1.1 N·m

Scan

Can't find the QR code?

Scan the QR code of the Smart Dongle or the inverter connected to the Smart Dongle.

Manually enter

Barcode

Device commissioning

After the commissioning is complete, remove the USB-WLAN module, install the 4G module. Check the indicator status. After the indicator is steady green or blinks at short intervals (on for 0.2s and then off for 0.2s) add a PV plant.

Quick settings

Device magt

Completed

Basic parameters

Communication networking

The access to the management system must be authorized by the owner.

Monitor the PV plant through the management system.

Dongle

Signal strength Strong (-32dBm)

IP address xxx.xxx.xxx.xxx

Subnet mask xxx.xxx.xxx.xxx

Gateway xxx.xxx.xxx.xxx

MAC address c0:a8:a9:01

Previous Next

Quick settings

Device magt

Completed

Basic parameters

Communication networking

Quick settings are completed. Check the following

Connect to mgmt sys Success

Inverter SUN2000-XXXXX 1pcs Grid connected

Power meter DDSU666-H 1pcs Online

Optimizer SUN2000-450W-P 0pcs Searching completed

Ensure that the devices are consistent with the actual connected devices.

Previous Finish

Add a plant.

← Create plant

Add plant >

Connect to existing plant >

Later



← 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.

Next



← Add plant

Basic info Add devices

Total string capacity (kWp) -Enter-

Added devices

XXXXXXXXXXXX

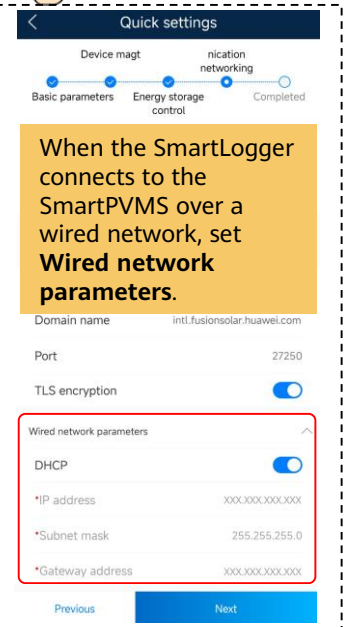
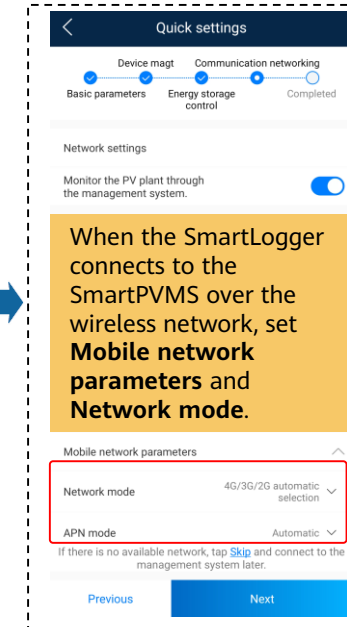
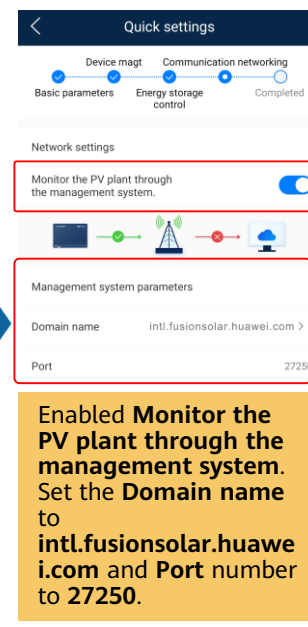
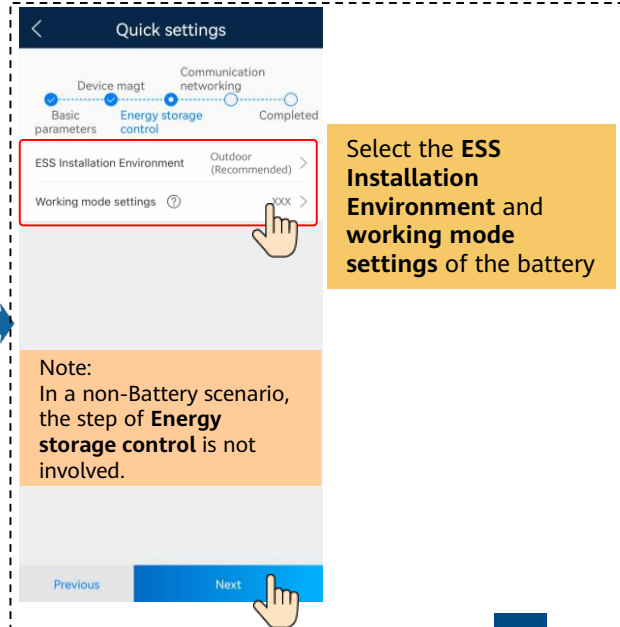
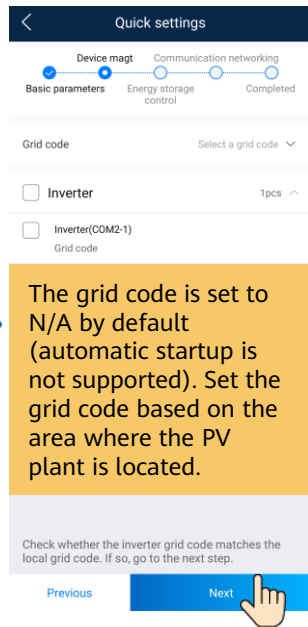
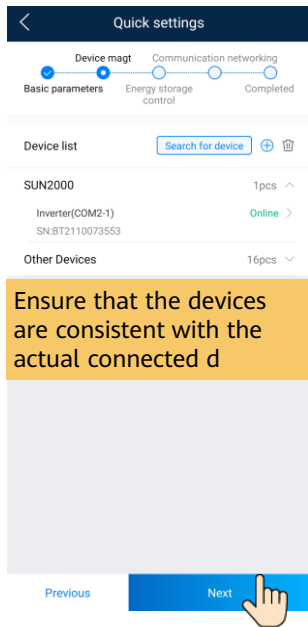
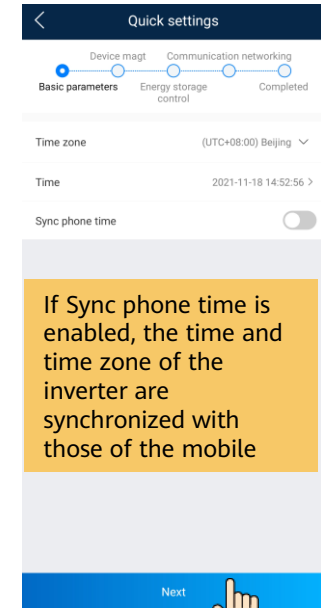
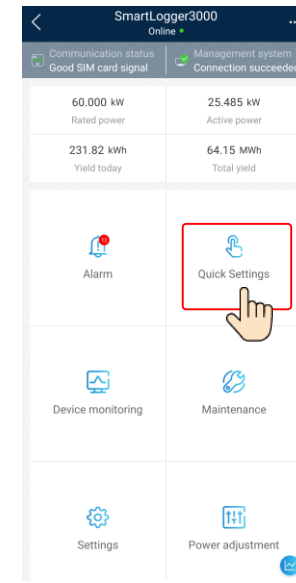
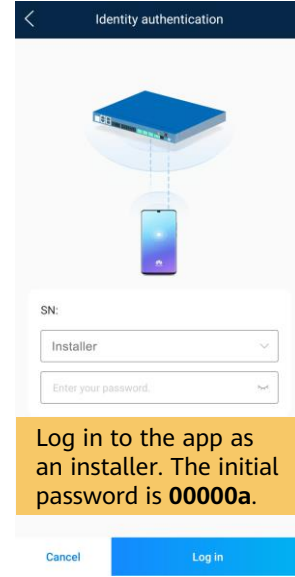
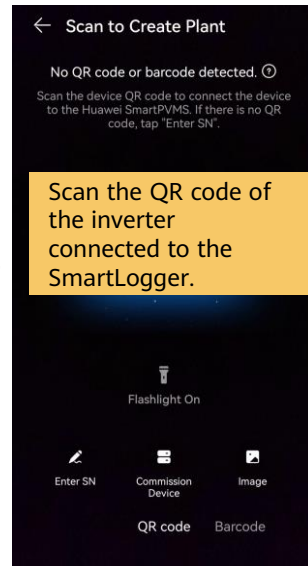
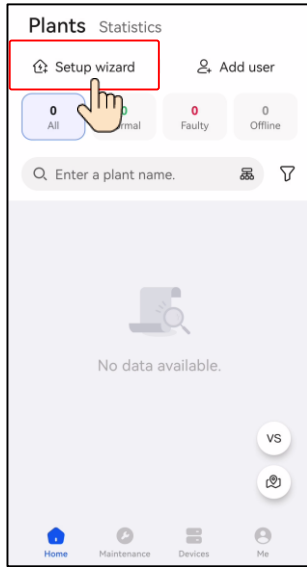
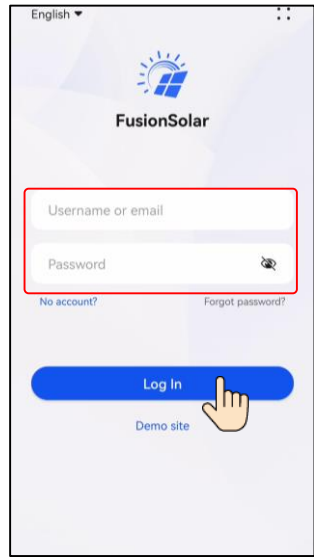
Device type XXXXX

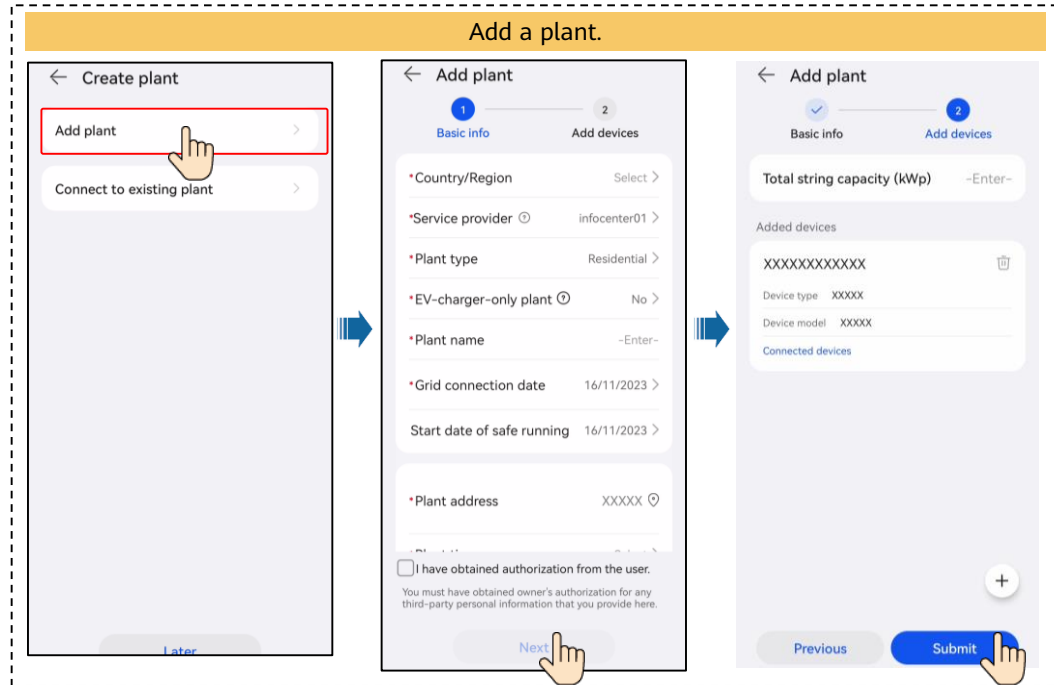
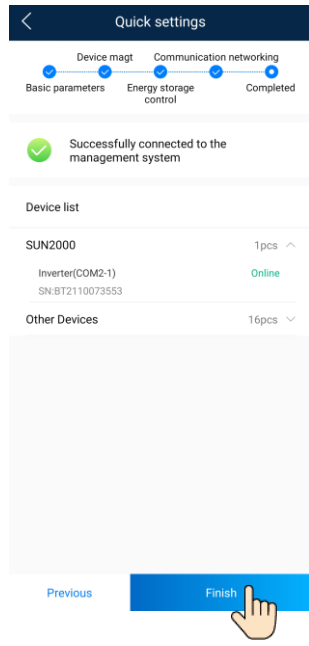
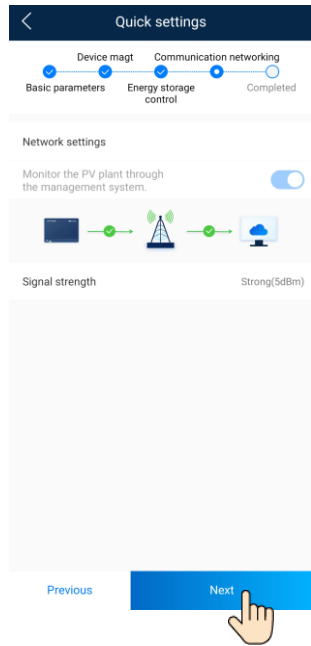
Device model XXXXX

Connected devices

Previous Submit

Local Commissioning Using the SmartLogger of the Inverter





4. Create an owner account

Add user

Plants Statistics

Setup wizard | Add user

1 All 1 Normal 0 Faulty 0 Offline

Enter a plant name.

My PV Plant
China mainland xxx
0.000kWhp 0.00kWh
100.00kWh

VS

Home Maintenance Devices Me

← Add user

*Service provider >

*Role >

*Plant Association >

*Username

Avatar >

Country/Region code +86 >

Mobile number

*Email

I have obtained the owner's authorization.

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

Cancel Save

or

Invite a user

Plants Statistics

Setup wizard | Invite User

1 All 1 Normal 0 Faulty 0 Offline

Enter a plant name.

My PV Plant
China mainland xxx
0.000kWhp 0.00kWh
100.00kWh

VS

Home Maintenance Devices Me

← Invite User

*Service provider >

*Role >

*Plant Association >

*Email

I have obtained the owner's authorization.

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

Cancel Save

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

After receiving the invitation, the user accesses the registration page to register an account.

Register an account

FusionSolar English Log In

Account Registration

* Country/Region

* Email
xxx@xx.xxx

* Username

* Password

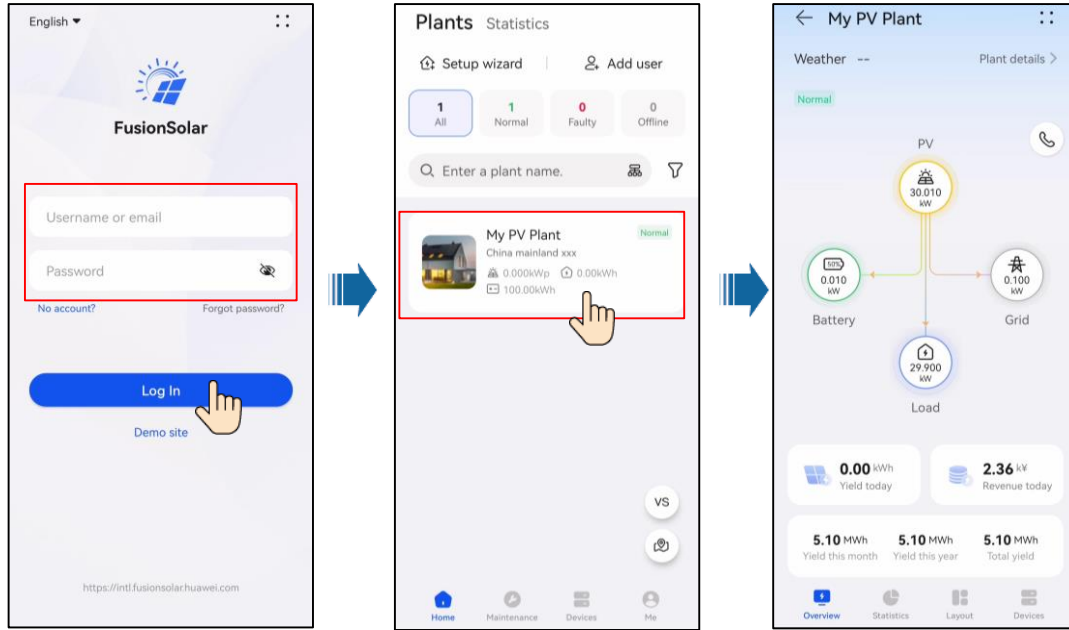
* Confirm password

* Email verification code

I agree to [Terms of Use](#) and I have read [Privacy Policy](#).

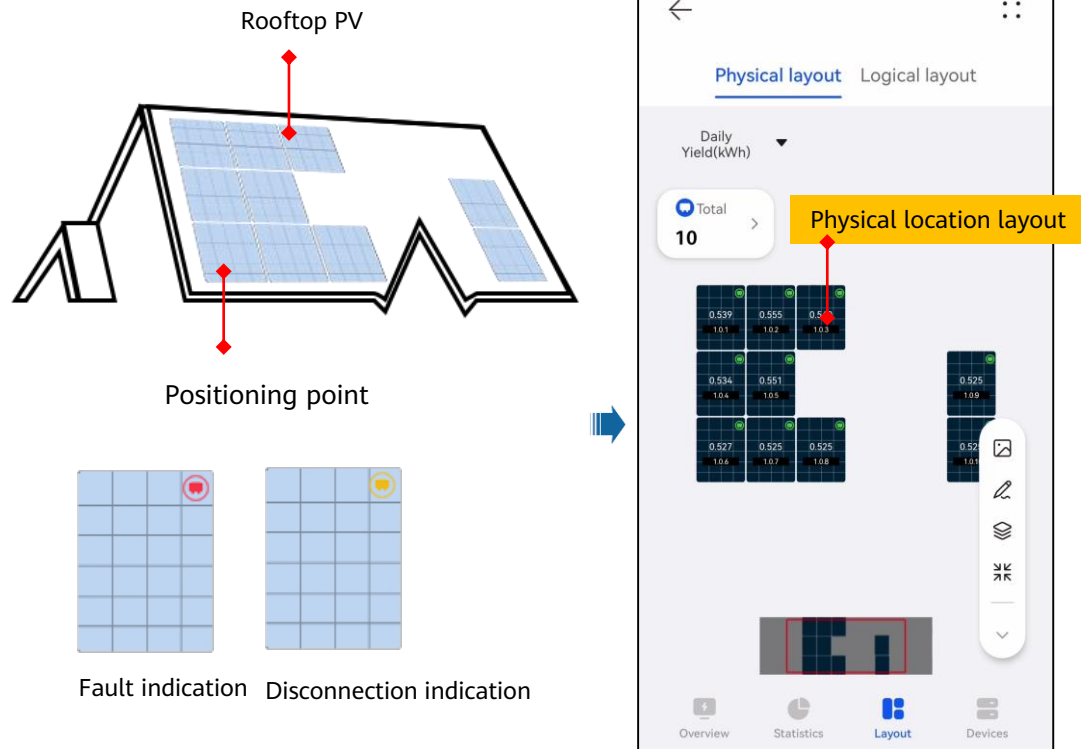
5. Checking the Device Status

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

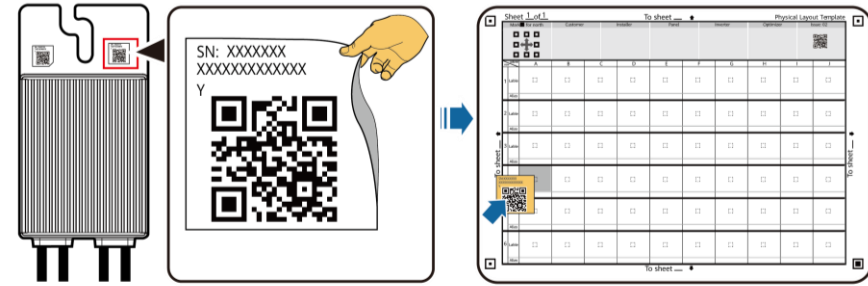


FAQ. Physical Layout Design (With Optimizers)

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.

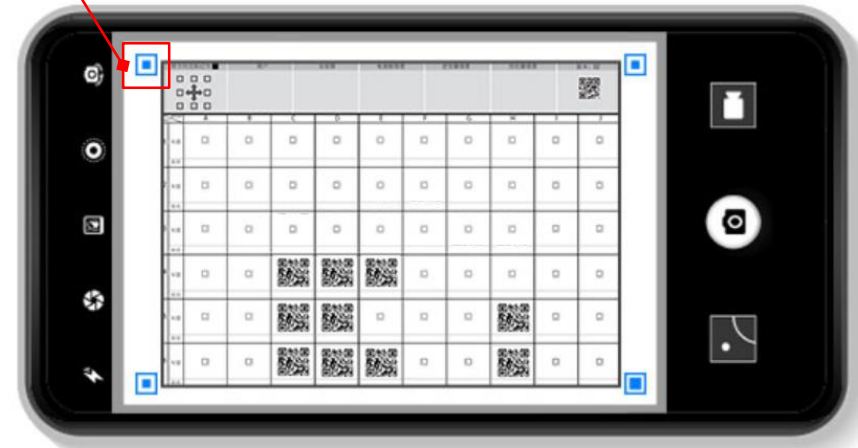


Step 1 After determining the installation position of an optimizer, remove the SN label from the optimizer and attach it to the physical layout template.



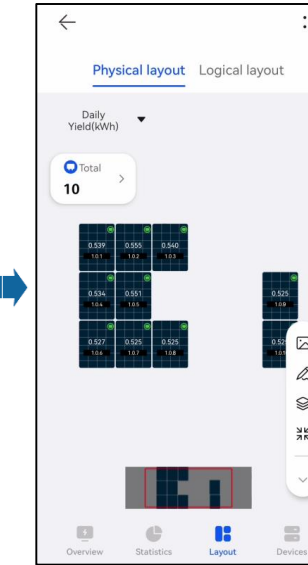
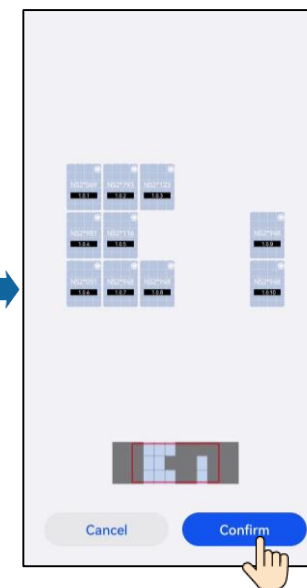
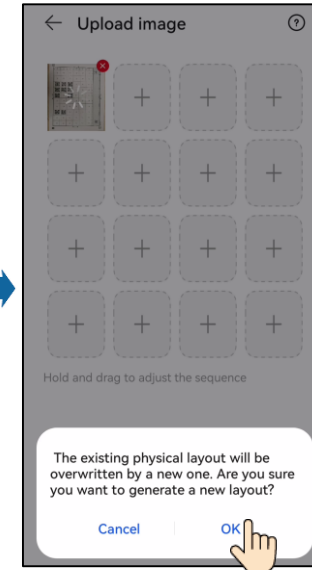
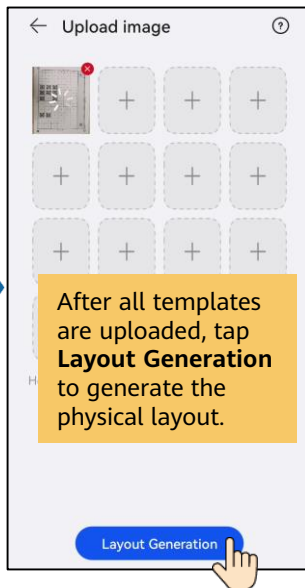
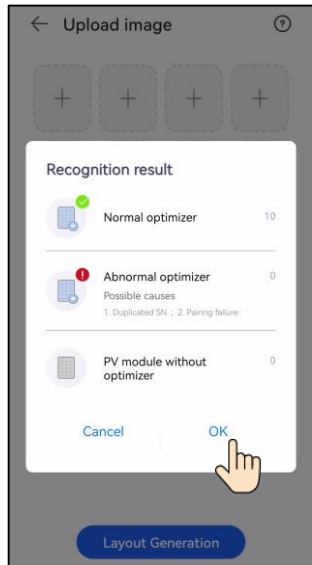
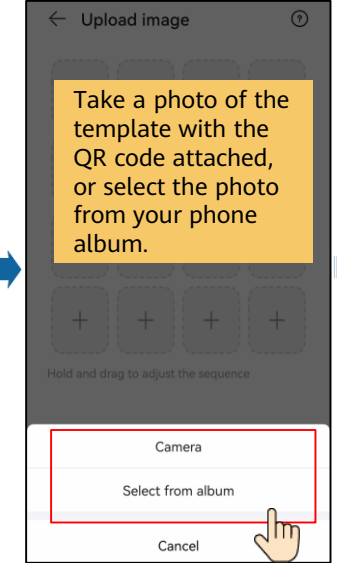
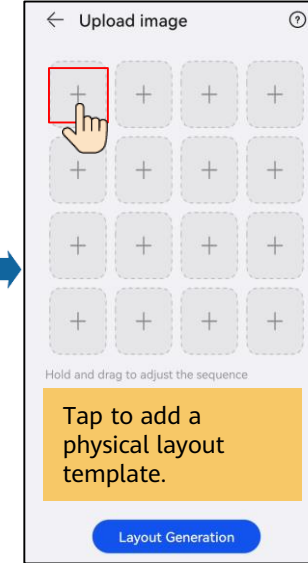
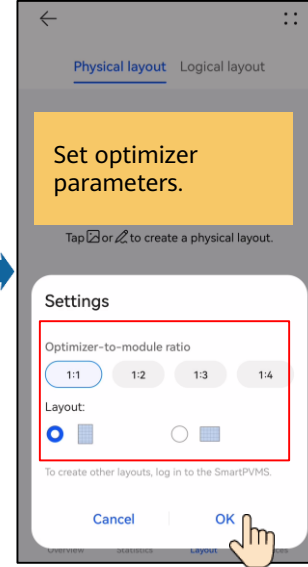
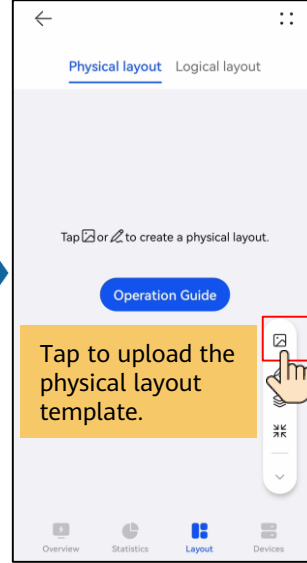
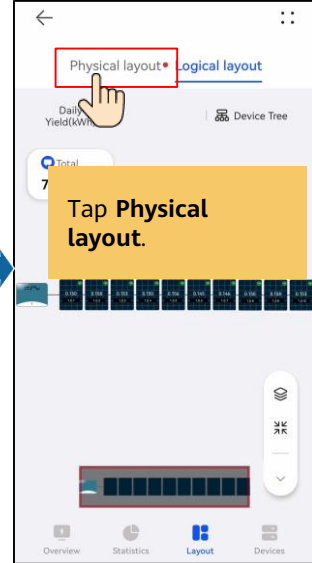
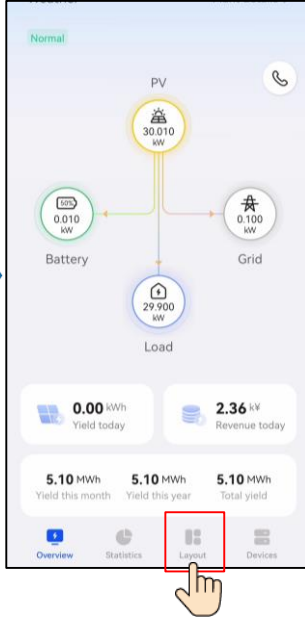
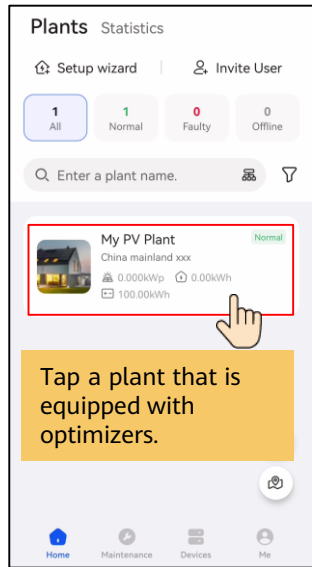
Step 2 Take a photo of the template with the QR code attached.

Positioning point for photographing



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

FAQ . Physical Layout Design



Note:
For some unidentified QR codes, manually bind them.

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. |
| | 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) | 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. |