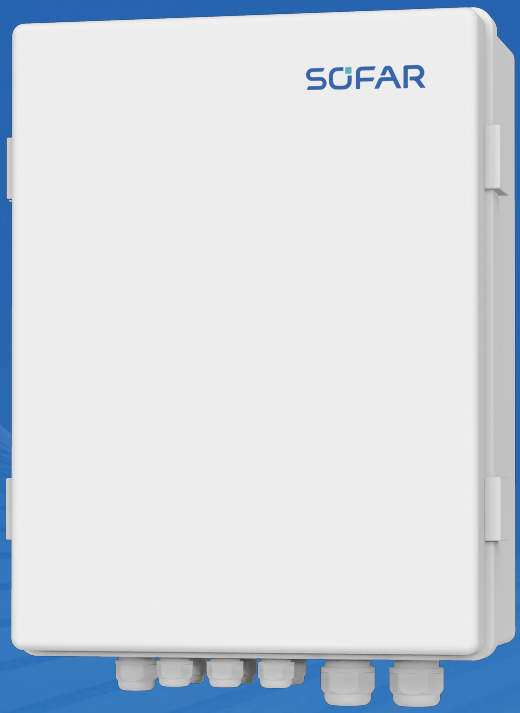
SOFAR

USER MANUAL

SAR-100



Shenzhen SOFARSOLAR Co., Ltd.

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1. About the Manual

1.1 Apply to readers

This manual is intended for professional personnel who install and operate the SAR-100.

1.2 Interpretation of Symbols

DANGER

Non-observance will result in death or serious injury.

- Follow the warnings in order to prevent death or serious injury!

WARNING

Non-observance may result in death or serious injury.

- Follow the warnings in order to prevent serious injury!

CAUTION

Non-observance may result in minor injury.

- Follow the warnings in order to prevent injury!

ATTENTION

Non-observance may result in property damage!

- Follow the warnings in order to prevent damage to or destruction of the product.

NOTE

- Provides tips essential to the optimal operation of the product.

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2. Introduction

SOFAR Feed-in limitation box enables the real-time monitoring of grid-tied situation through the integration of three-phase meter, logger which meets the requirement of real-time adjusting inverter output power at power consumption scenario. It can connect to many inverters and support data transmission via Wi-Fi & Ethernet. It also supports the Feed-in limitation application of parallel-connected machine for G3 series SOAFR inverters.

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3. Parameter

Parameter	
Product Model	SAR-100
Remote Communication	2.4G Wi-Fi + Ethernet
Local Communication	RS485
No. of Connections	10
Accessing Method	Three-Phase Four-Wire
Working Voltage	3x230/400V 50/60Hz
Working Current	3x1.5(6)A
IP Grade	IP65
Working Temperature	-25℃~+60℃
Working Humidity	5%-95% (No Condensation)
Installation Method	Wall-Hanging
Size	~400*300*170mm
Weight	~4.1kg

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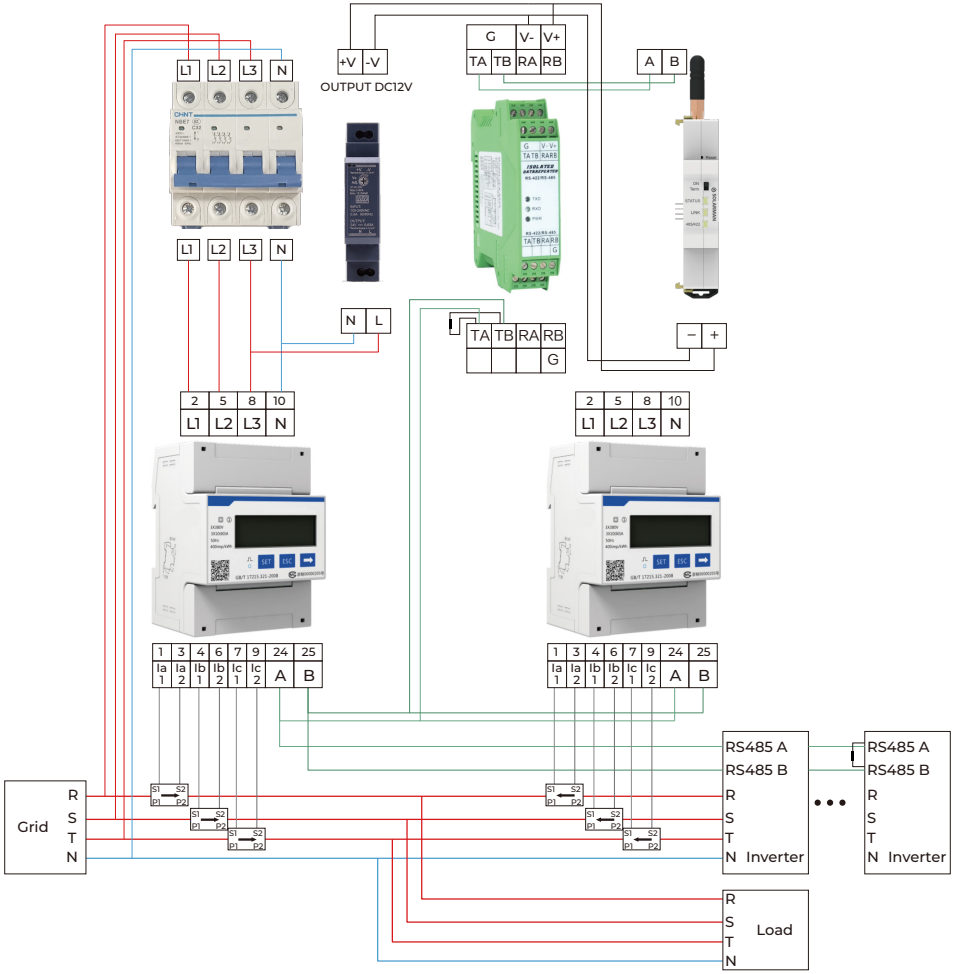
4. Feed-in limitation System Diagram



If RS 485 link communication is not successful for some inverters, please connect a 120Ω resistance with repeater and A&B port of the last inverter.

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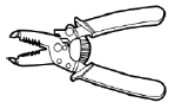
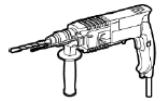
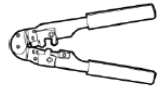
5. Product installation

5.1 Tool

Tool Name	Picture	Usage	Remark
Wire stripper		Strip cable insulation	
Cross screwdriver		Use to connect	
Wire cutter		Used to cut power cables	
Adjustable Wrench		Use to fix expansion screws	
Percussion Drill		Use to drill holes	
Wire crimper		Press line	
Crystal head wire pliers		Pressing crystal head	
Computer		Use to operate network configuration	
COM Line		RS485Communication	(Shielded twisted pair) Diameter: 3-7mm

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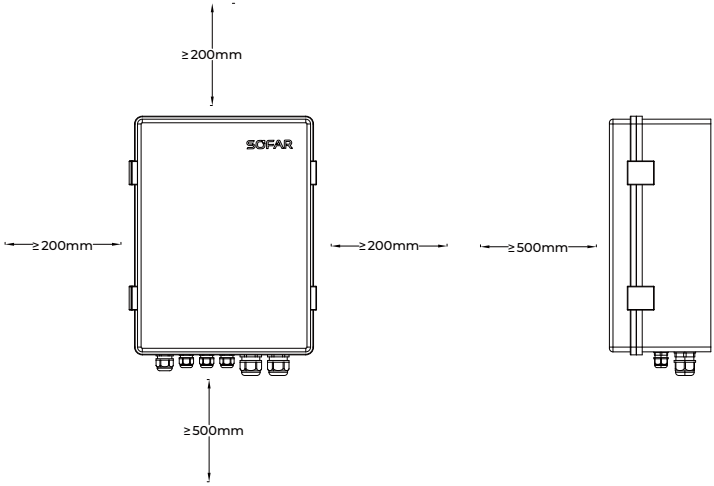
Voltage-sampling cable		Use to connect voltage sampling signal	Specification:AWG 12-18, 105°/600V
Double-core cable		Use to connect voltage sampling signal	Specification:AWG 16-22, 105°/600V

5.2 Location



Top----200mm;
Below----500mm;
Front----500mm;
Two sides----200mm;

ATTENTION

· The SAR-100 should be installed indoors at a safe height, avoiding places with humidity, dust, direct sunlight and corrosive vapors, and should be shockproof and pressure resistant; the ambient temperature range should be around -25°C to +60°C.
· Max. communication distance for RS485 should be less than 500m.
· Away from other wiring routes or pipes in doors, such as gas pipe, water pipe, electric wire and etc.
· Away from metal structure to ensure wireless signal strength.

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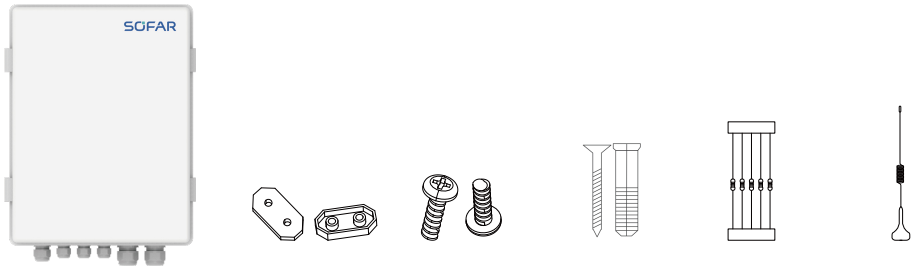
6. Device installation procedure

6.1 Check the packing

Please ensure that the delivery list items are complete (list below) :



A B C D E F

Number	Description	Quantity
A	SAR-100	1
B	Hangers	4
C	Hook screws	4
D	Expansion screws	4
E	Resistance	5
F	Antenna	1

NOTE

If any item is damaged or missing, please contact SOFARSOLAR.

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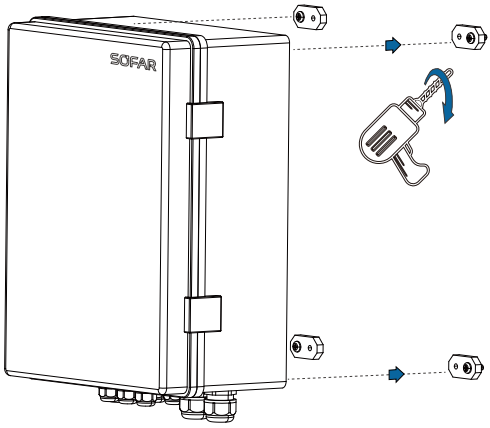
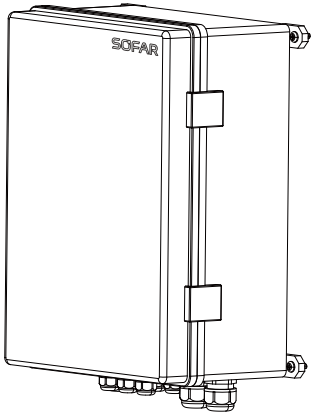
6.2 Device Installation

WARNING

- Power off the device before installation.
- Double check the connection before power on the device.
- Please install carefully according to the weight and size of the product to prevent damage.
- Keep it out of children.
- Please install near the crossroad of grid side and power generation side.

Step 1: Select a right (firm & flat) place to install the device.
Step 2: Determine the drilling hole positions according to hangers.
Step 3: Fix the device using expansion screws.





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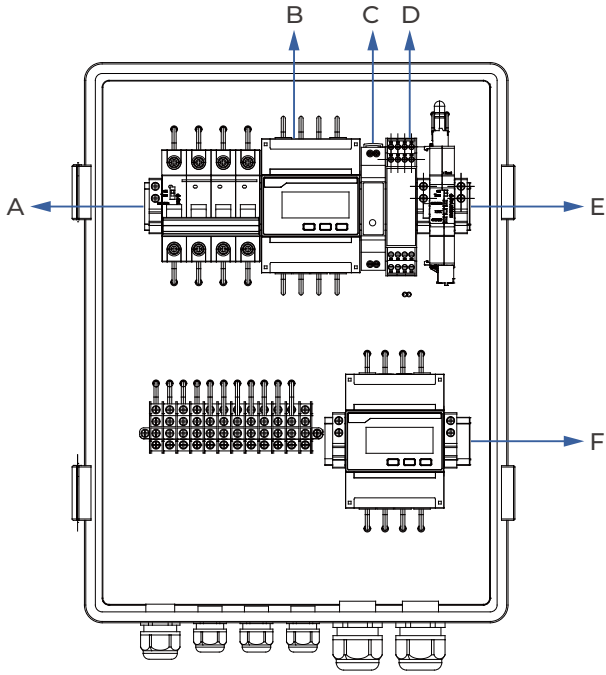
6.3 Internal structure



Number	Module	Description
A	Air switch	/
B	Intelligent three-phase electric meter	CT1 Grid side meter
C	Power module	/
D	RS485 repeater	/
E	DIN-Rail logger	Data transmission module
F	Intelligent three-phase electric meter	CT2 Inverter side meter

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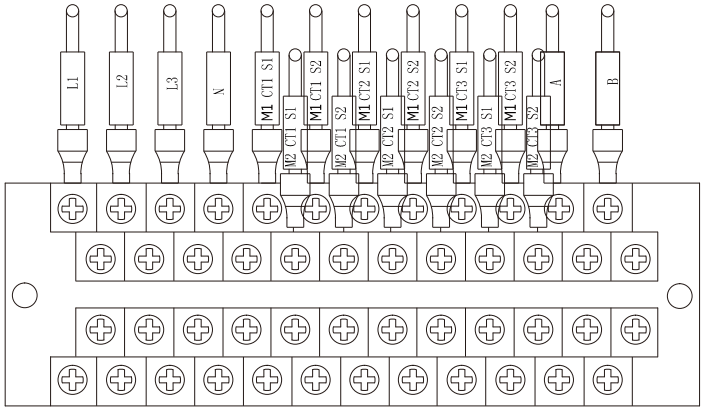
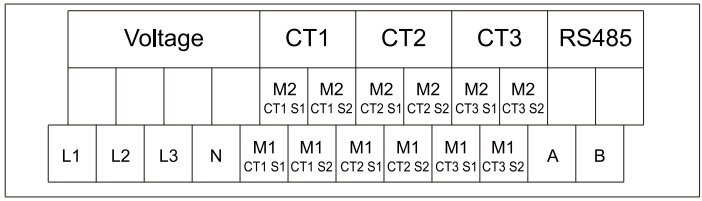
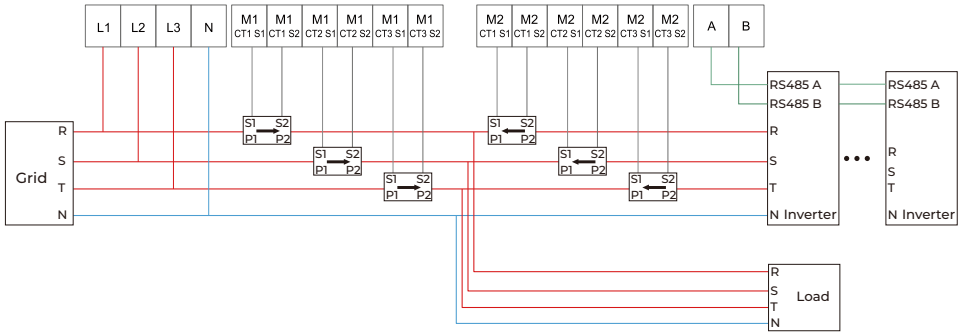
6.4 Device Wiring







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⚠ CAUTION

- All electrical installations must be in accordance with local electrical standards and permission must be obtained from the local electricity authority before the SAR-100 can be connected to the grid by a professional.
- When replacing components, ensure that the new replacement components meet the trial requirements of the SAR-100.
- Ensure that the AC input voltage and current match the rated voltage and current, otherwise the components will be damaged or will not work properly.
- Appropriate ESD measures should be taken.
- Please ensure that the following wiring is carried out with the SAR-100 powered off.

ATTENTION

- The CT corresponding to M1 is connected to the grid side and S1 and S2 are connected as shown above with the direction of the arrow pointing from the grid to the inverter.
- The CT corresponding to M2 is connected to the grid side and S1 and S2 are connected as shown above with the direction of the arrow pointing from the grid to the inverter.

Step 1: Connect inverter output to the grid. Connect to phase line R ,S, T, N accordingly.

Step 2: Connect voltage-sampling signal line, communication distance should be less than 100m. Connect to phase line R ,S, T, N accordingly.

Step 3: Connect CT, communication distance should be less than10m. CT direction should be from grid to load and make sure R-phase CT connect to CT 1-1/2, S-phase CT connect to CT 2-1/2, T-phase CT connect to CT 3-1/2.

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NOTE

· Phase sequence of CT should be consistent with the phase sequence of voltage-sampling signal. ±1/2 cannot be reversed.
(Select current sensor according to the device capacity.)

Step 4: RS485A-B cannot be reversed.

Step 5: All devices can connect to ground line.

6.5 Inverter address settings

Step 1: Default address for meter 1 is 1, default address for meter 2 is 100.
Step 2: ①For one inverter, inverter address: 2.
②For multiple inverters, inverter address: 2, 3, 4, 5.....
Step 3: No need to set Feed-in limitation function at LCD screen.

NOTE

· Address cannot be the same.
· Notice: Please make sure local Feed-in limitation function: OFF

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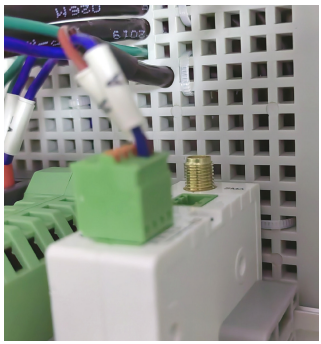
6.6 Change external antenna

Step 1: Unscrew the small antenna of DIN-Rail logger;





Step 2: Thread the external antenna lead through the waterproof joint, insert the rubber at the bottom of the antenna, and tighten the waterproof cap;



Step 3: Screw the external antenna SMA head onto the logger.



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7. Networking Configuration

*If the networking configuration is required, please follow the step and the stick logger along with the inverter does not need to install. If the SAR-100 is only used for Feed-in limitation purpose, users can skip this step directly and install the stick logger accordingly.

NOTE

- DIN-Rail logger supports Wi-Fi & Ethernet access. Please select one method to access according to actual situation.

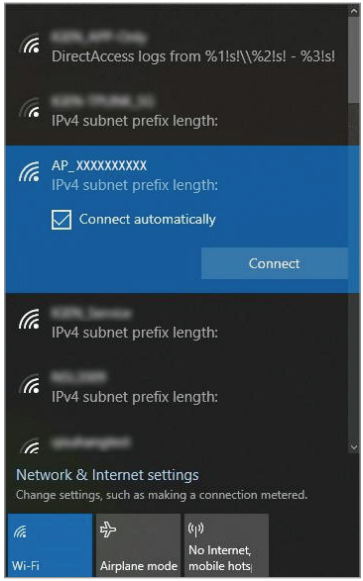
7.1 Wi-Fi Access

Go to DIN-Rail logger configuration page.

Step 1: Prepare a computer/smart phone that can connect to wireless network.

Step 2: Connect to logger AP (Please do Not connect the cable when configuring the logger).

Step 3: Select and connect AP XXXXXXXXX in the network list (XXXXXXXXX means logger SN).



Step 4: Log in to logger WEB page.

Open a browser and enter 10.10.100.254. Username: admin. Password: admin.

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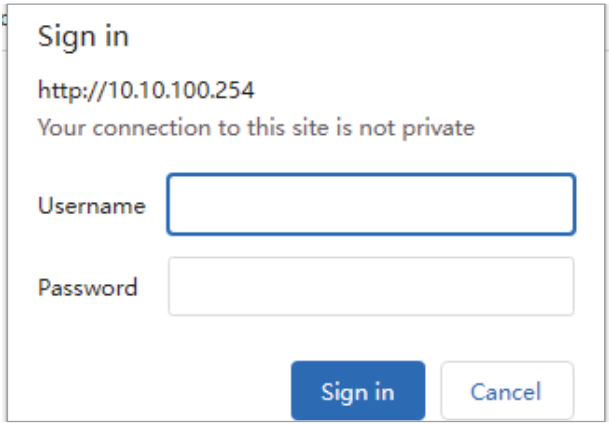
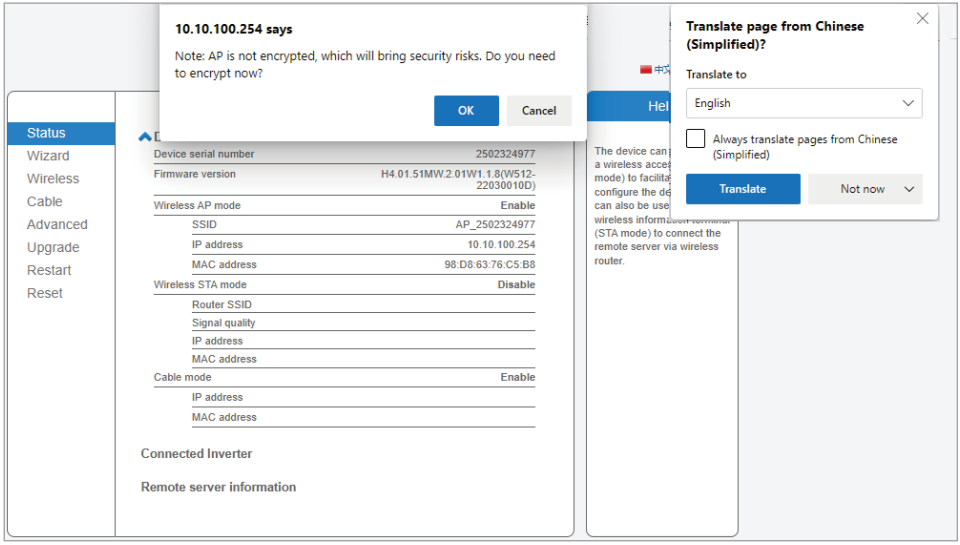
NOTE

• Supported browser: IE 8+, Chrome 15+、Firefox 10+



Step 5: During the first login, the browser will remind you whether to save the password. You can decide according to your usage habit.

Step 6: During the first login, the system will prompt that the AP is not encrypted. Click “OK” to encrypt it, click “Cancel” if not.



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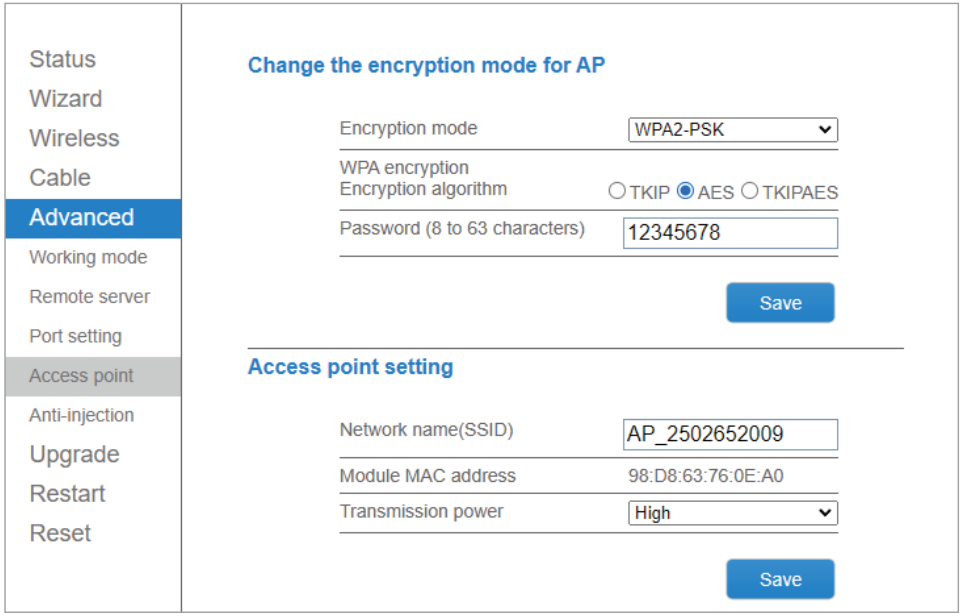
Step 7: If you choose to encrypt AP, you will go to **[AP Encryption Modification]**, enter your password and click “Save”.

Example: choose WPA2-PSK as encryption mode, AES as encryption algorithm, password: 1234578 (Please remember the password.)

Users can select encryption mode according to actual situation. After AP has been encrypted, it requires to connect AP again.

NOTE

If you forget your password or want to cancel the encryption, please long press Reset button for 4s to reset which will got to reconfiguration process. AP password, network information and Feed-in limitation settings will restore factory settings at this time.



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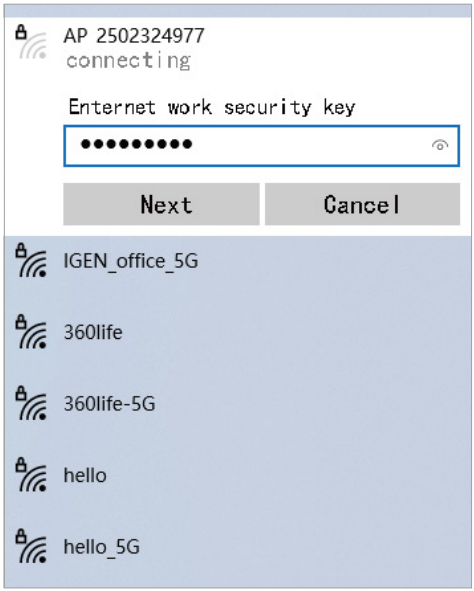
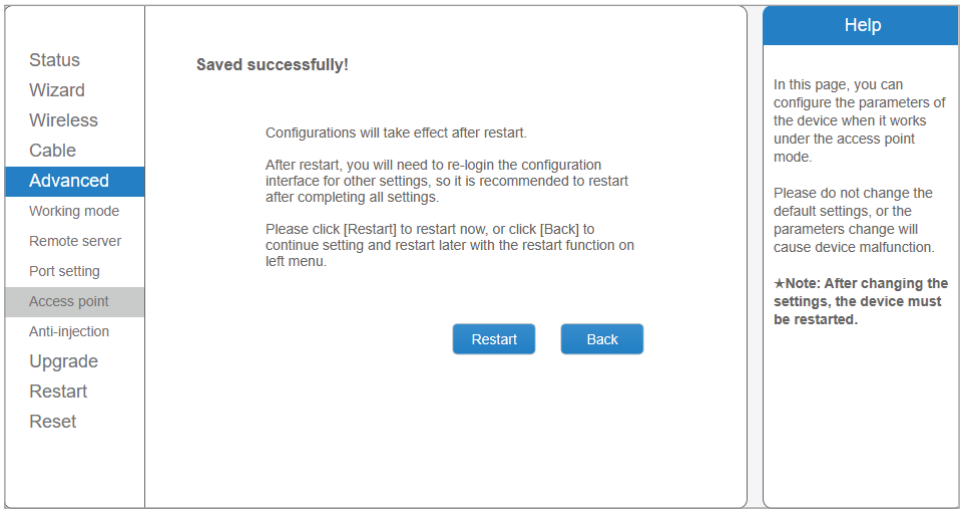


Step 8: Click “Reboot” after saving.



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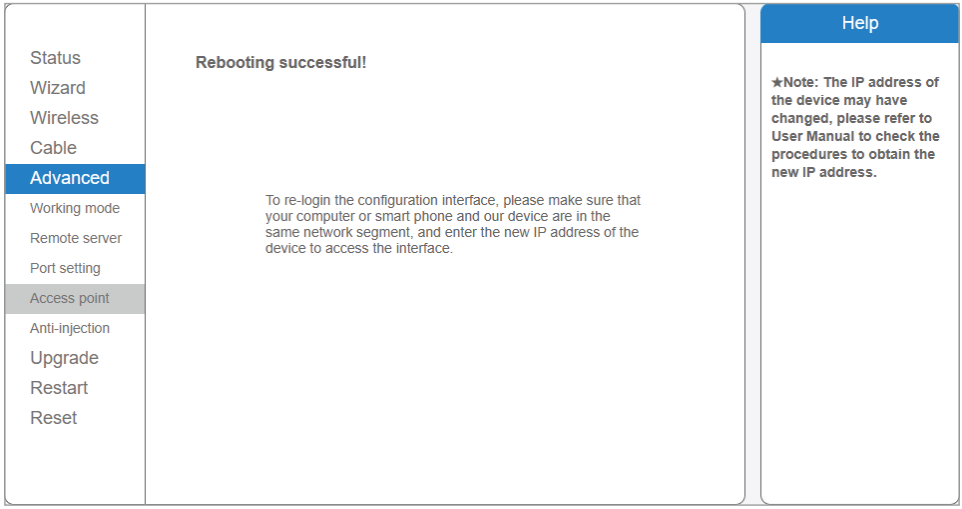
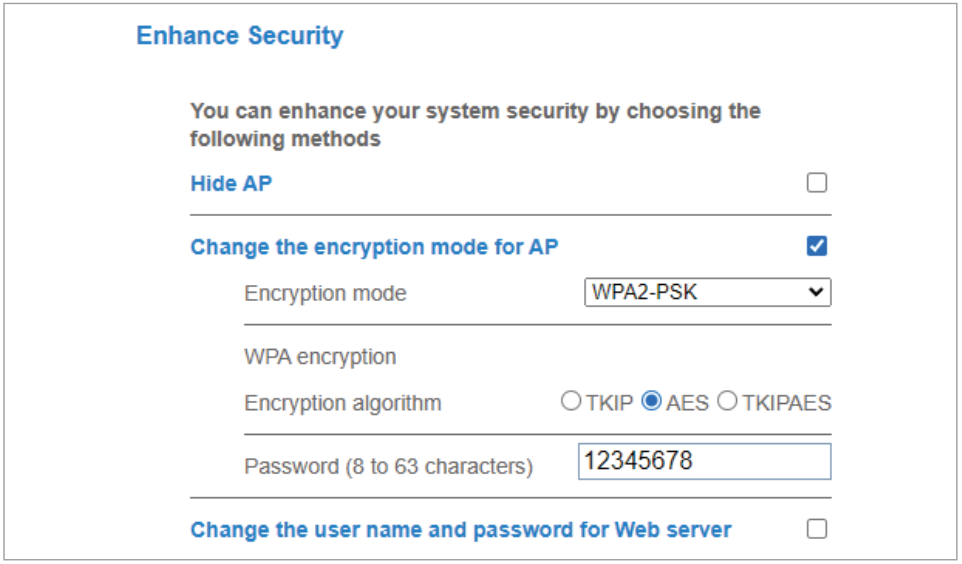


NOTE

- After AP encryption has been set, you will be reminded again during network settings.
- If the following prompt shows, you can select "**AP encryption modification**" accordingly.



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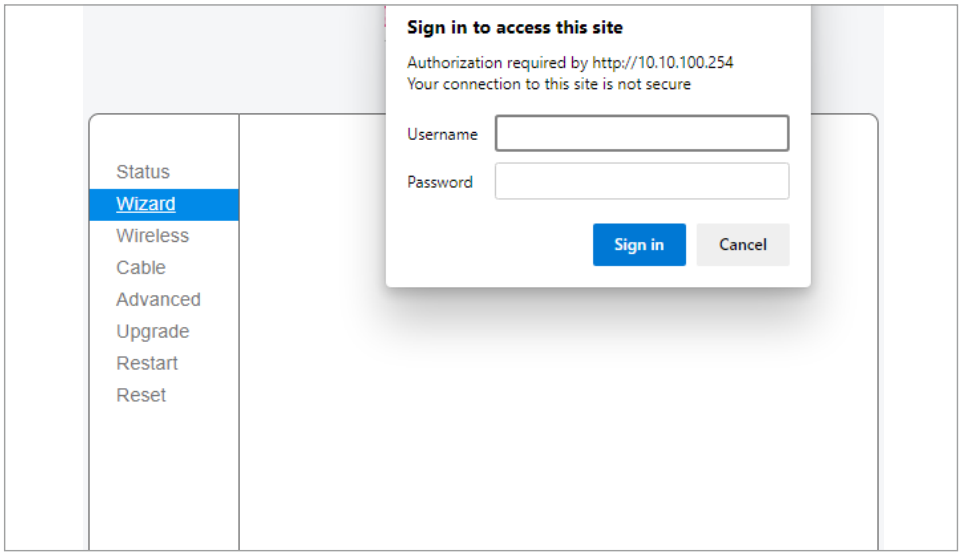
Step 9: Refresh the WEB page and log in again.
Username: admin
Password: admin



NOTE

· Step 6-9 are for AP encryption. If you will not select AP encryption, skip step 6-9, click "**Cancel**" in step 5 and go to step 10 directly.

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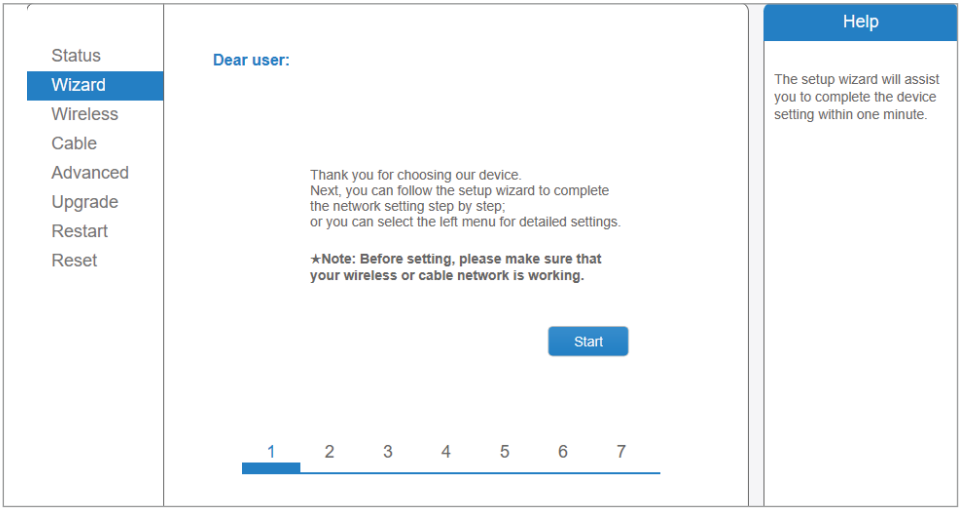
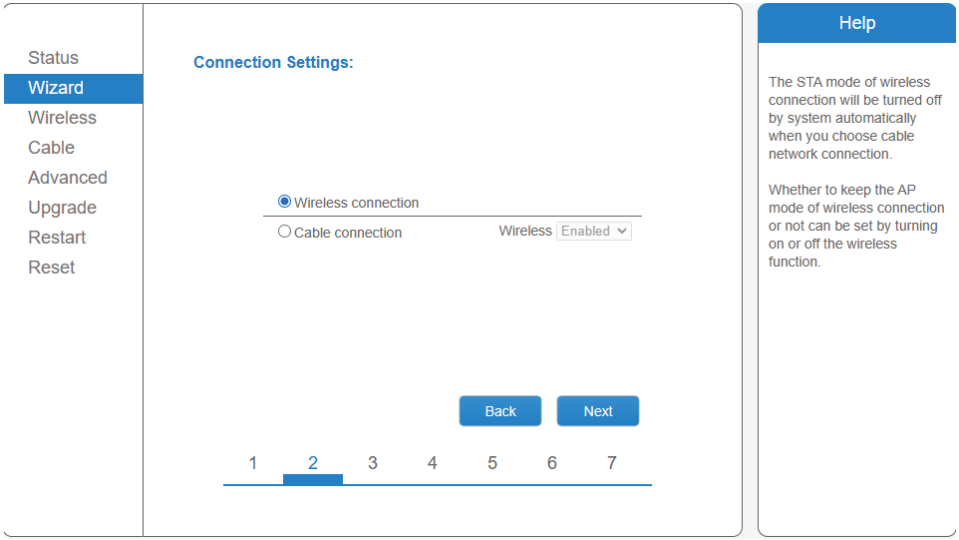
Step 10: Go to setup guide page,Click “**Start**”.



Step 11: Select [**Wireless connection**] and click “**Next**”.



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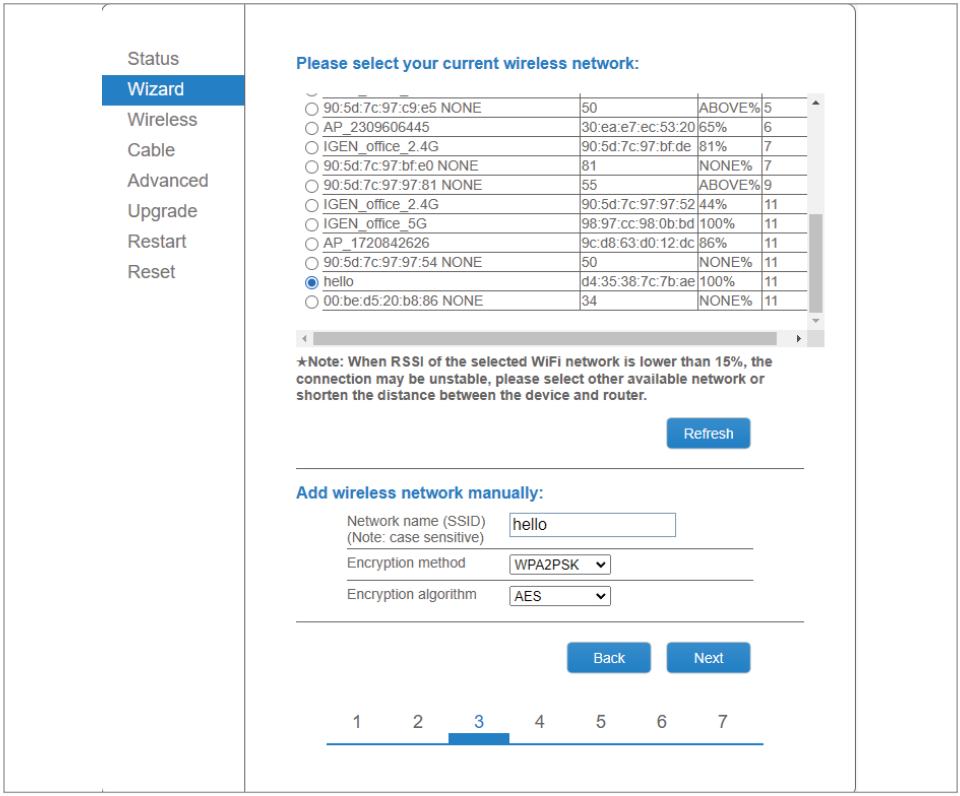
Step 12: Select router name and click "**Next**", refresh the page if no target router listed.

ATTENTION

· Router name and password do not support 、 ; , = ' " characters.
· 5G Wi-Fi is not supported.
· Router DHCP function: ON.
· Please ensure Router can connect to a network.



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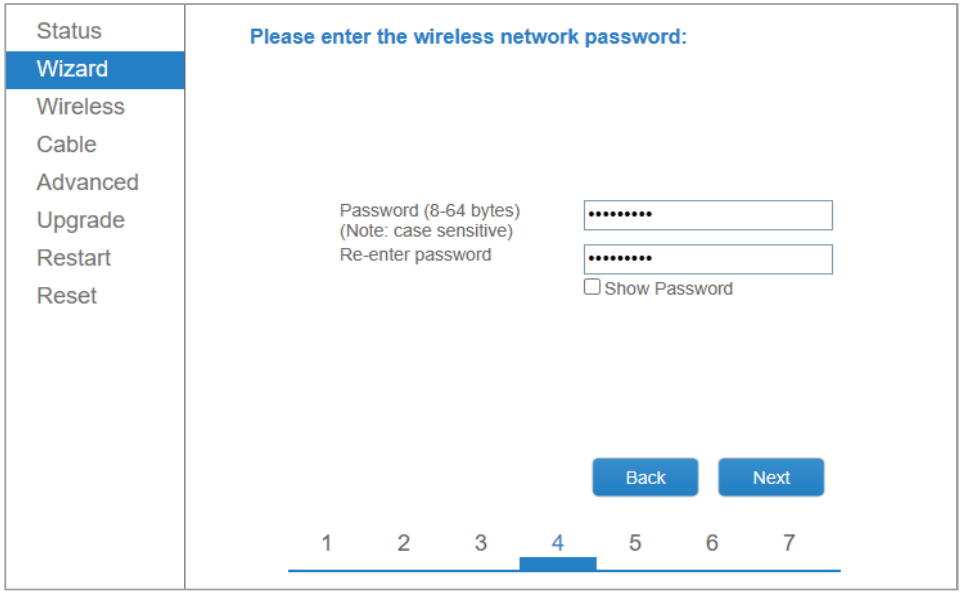
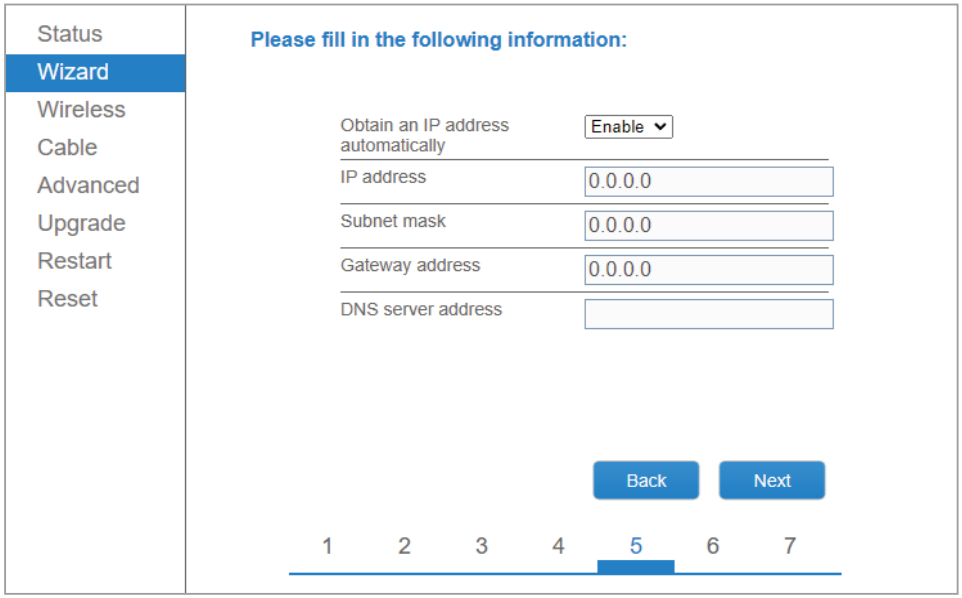
Step 13: Set router password and click "**Next**".



Step 14: If allocating fixed IP address is not required, select [**Obtain an IP address automatically: Enable (Recommended)**] and click "**Next**".



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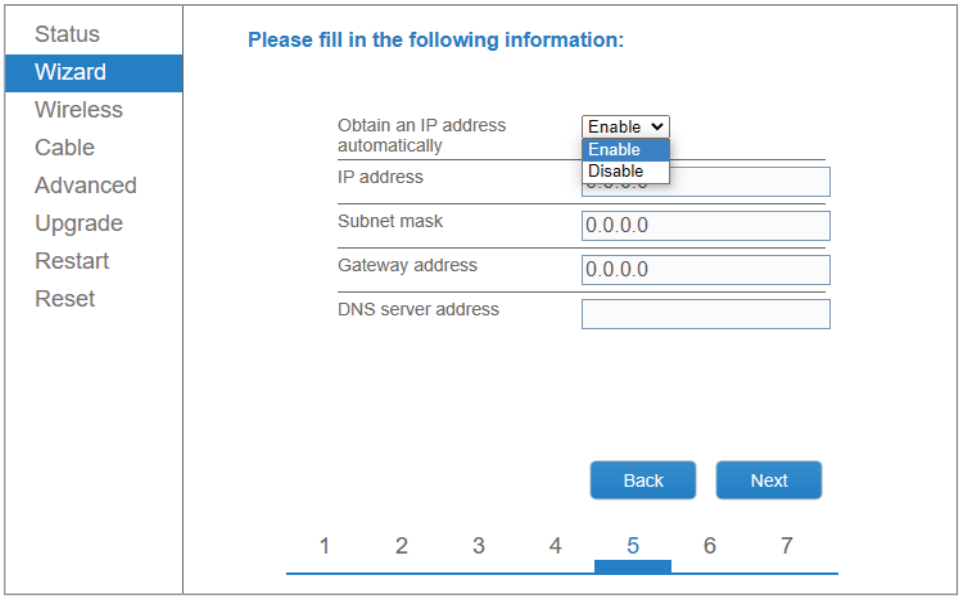
Step 15: If allocating fixed IP address is required, select “**Disable**”. Enter the target IP address and click “**Next**”.



Step 15.1: If you wish to enhance safety, you can choose “Hide AP” or “AP Encryption Modification”. [AP Encryption Modification] is recommended.If you already set AP encryption, please refer to previous steps.

NOTE

- If you select “Hide AP”, AP will be hided automatically. If you wish to open again, please long press Reset button for 4s to reset which will got to reconfiguration process. AP password, network information and Feed-in limitation settings will restore factory settings at this time.

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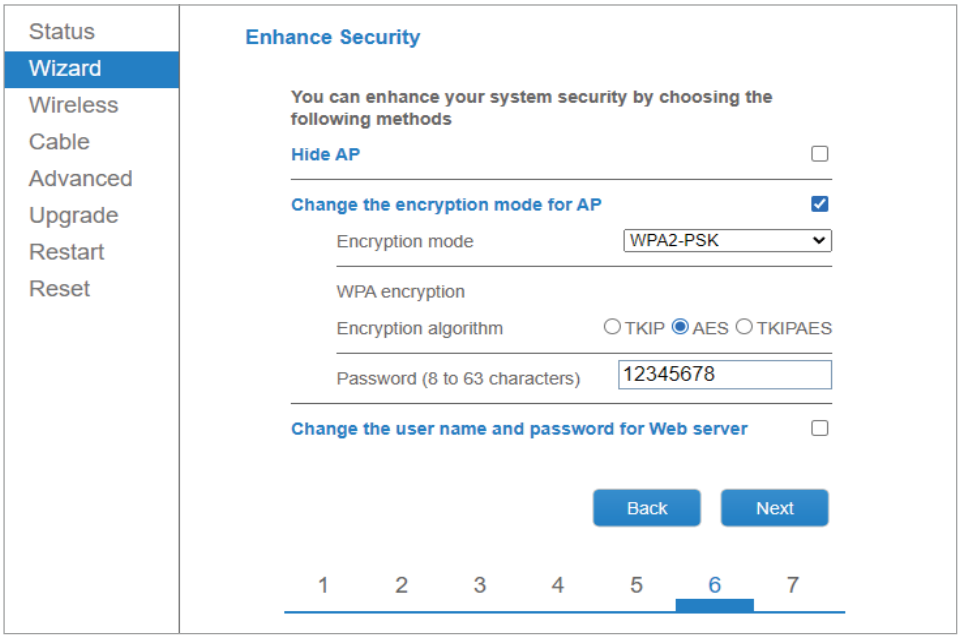
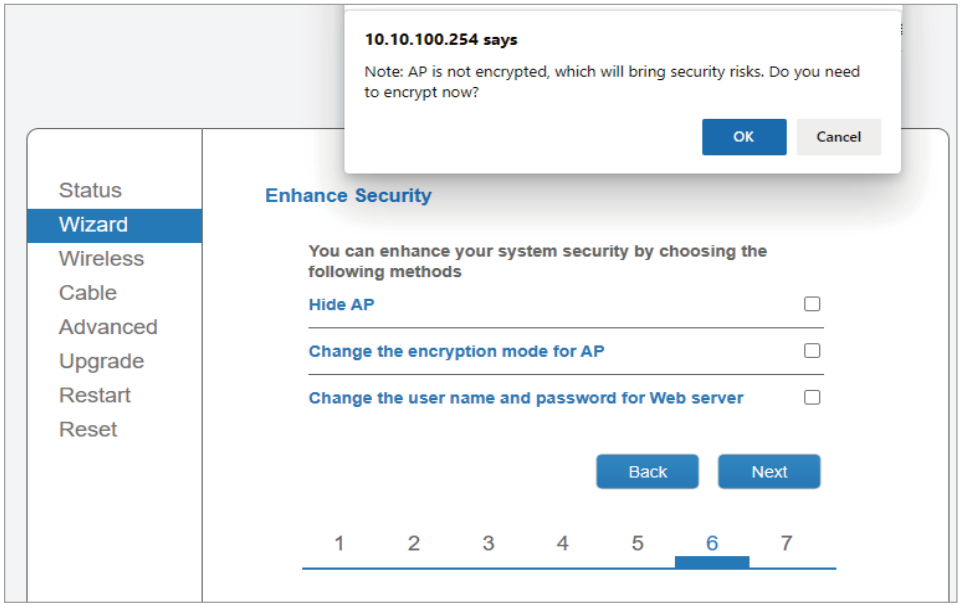


Step 15.2: If enhancing safety is not required, click "**Next**". System will remind you to encrypt AP, click "**Cancel**".



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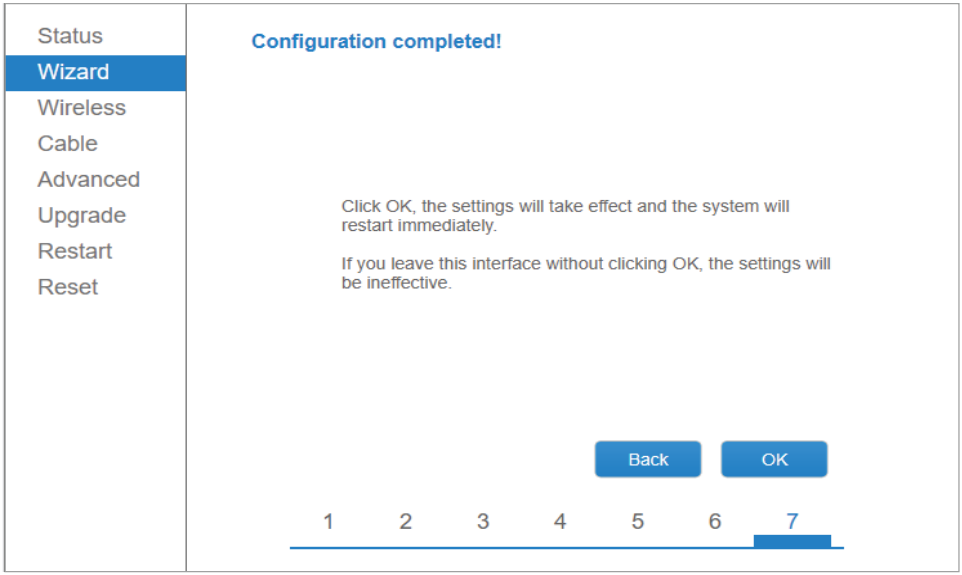
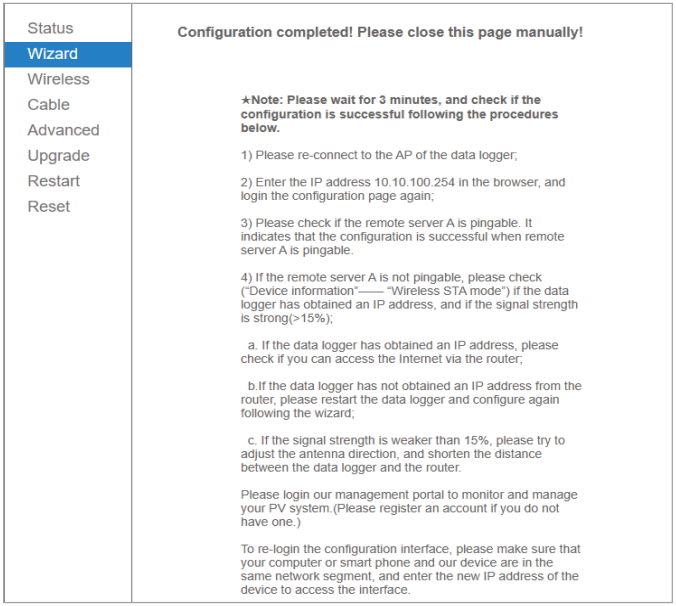
Step 16: Click “OK” to complete Wi-Fi configuration.



Step 17: Connect AP again according to the notification around 40s. Log in to WEB page and check if the network is successful.



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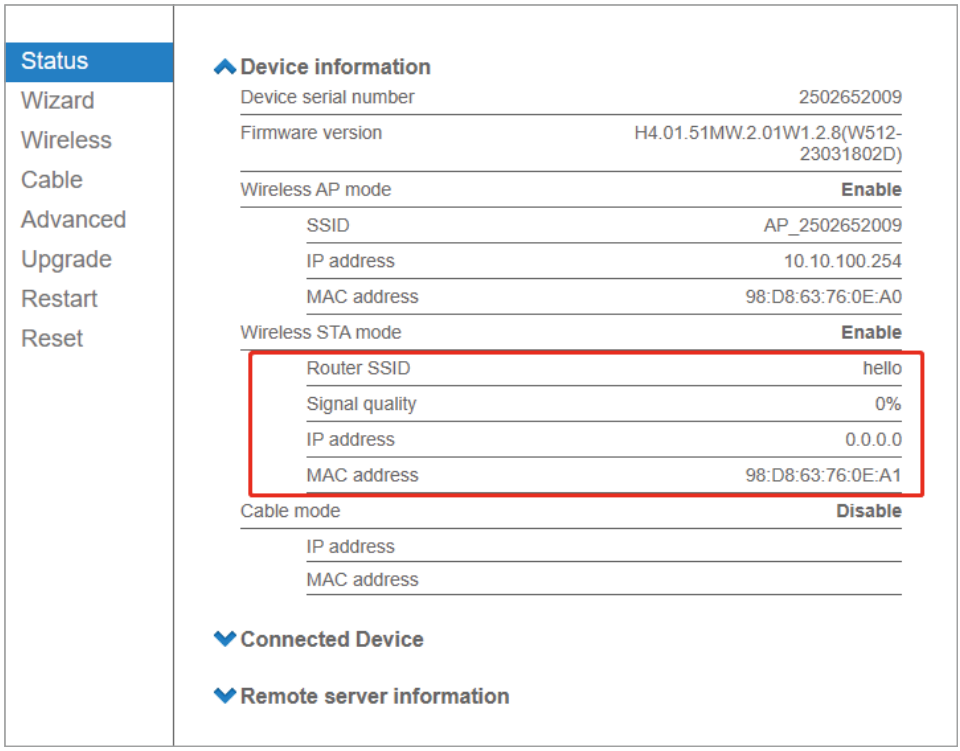

7.2 Ethernet Access

Use cable to connect DIN-Rail logger and router.

NOTE

· Ethernet port of DIN-Rail logger has no lighting function.
· Router DHCP function: ON.

Step 1: Select "**Cable connection**", and set Wireless function: **Enable**. Click "**Next**". (Otherwise, you can't connect to AP through mobile phone or computer for web page setting)

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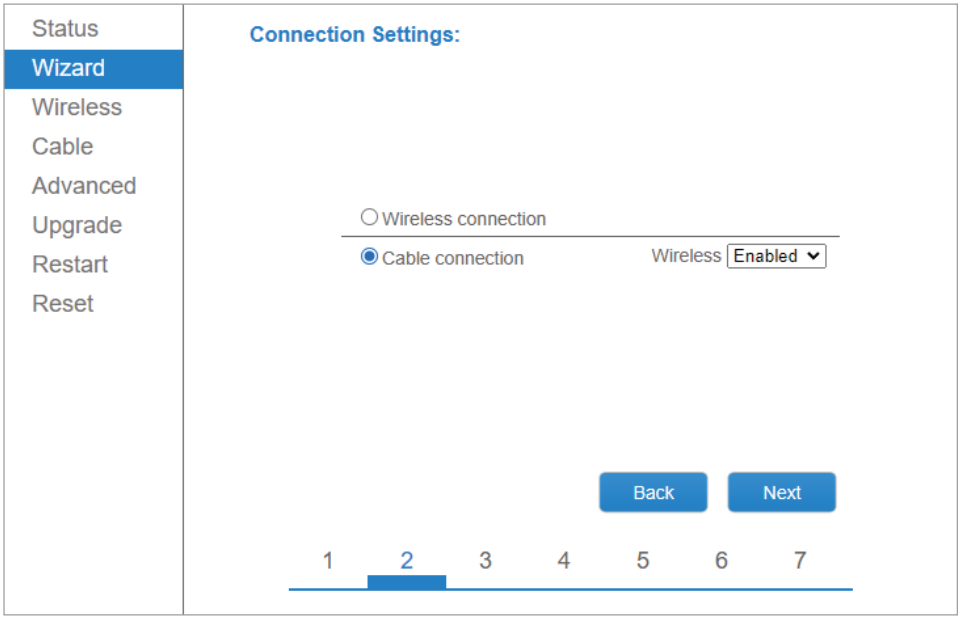
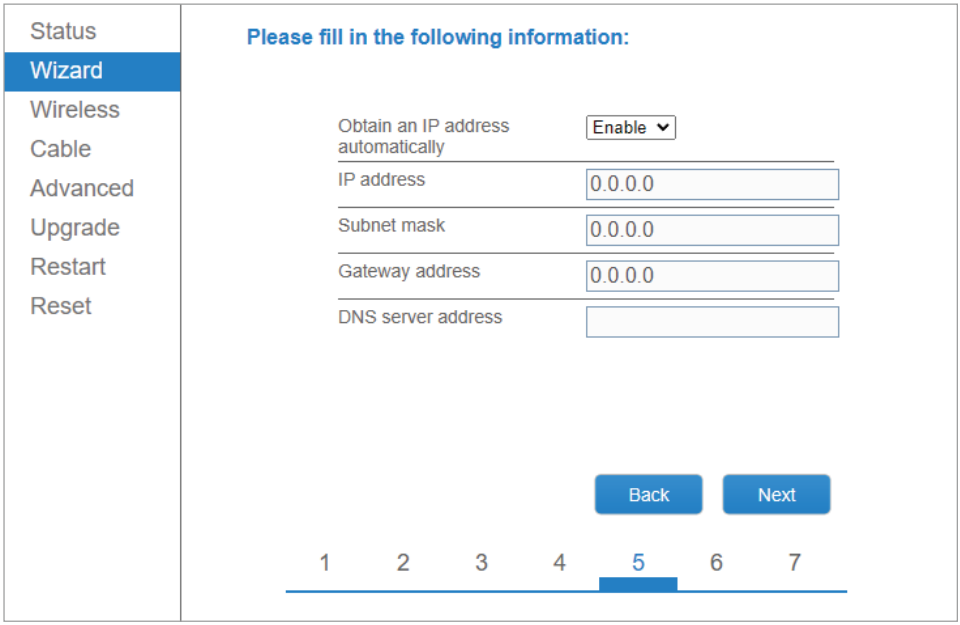


Step 2: If allocating fixed IP address is not required, select [**Obtain an IP address automatically: Enable (Recommended)**]and click "**Next**".



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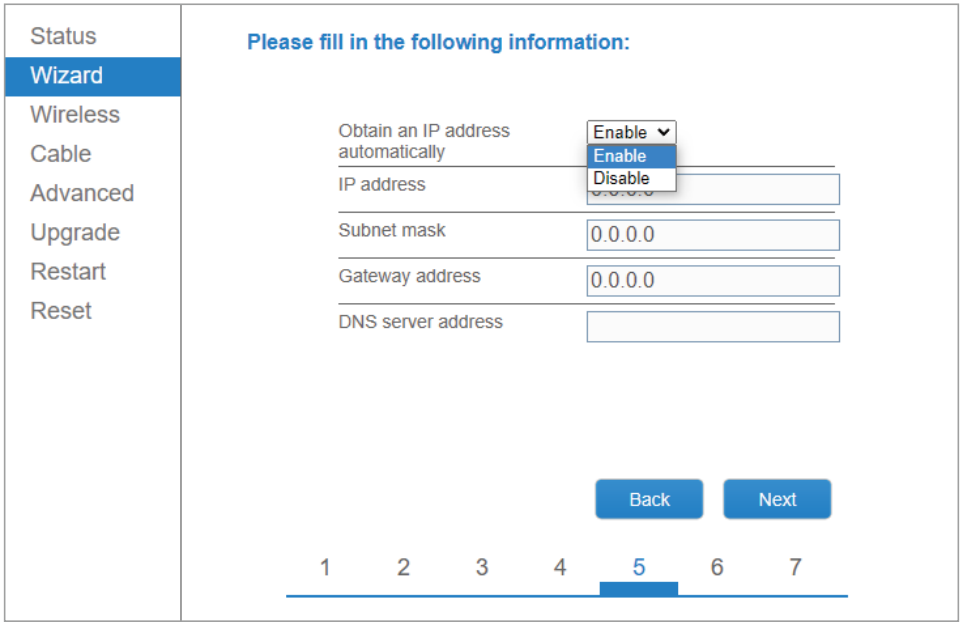
Step 3: If allocating fixed IP address is required, select [**Disable**]. Enter the target IP address and click "**Next**".



Step 4: If you wish to enhance safety, you can choose "**Hide AP**" or "**AP Encryption Modification**". [**AP Encryption Modification**] is recommended.
If you already set AP encryption, please refer to previous steps.

NOTE

- If you select "**Hide AP**", AP will be hided automatically.
- If you wish to open again, please long press Reset button for 4s to reset which will got to reconfiguration process. AP password, network information and Feed-in limitation settings will restore factory settings at this time.

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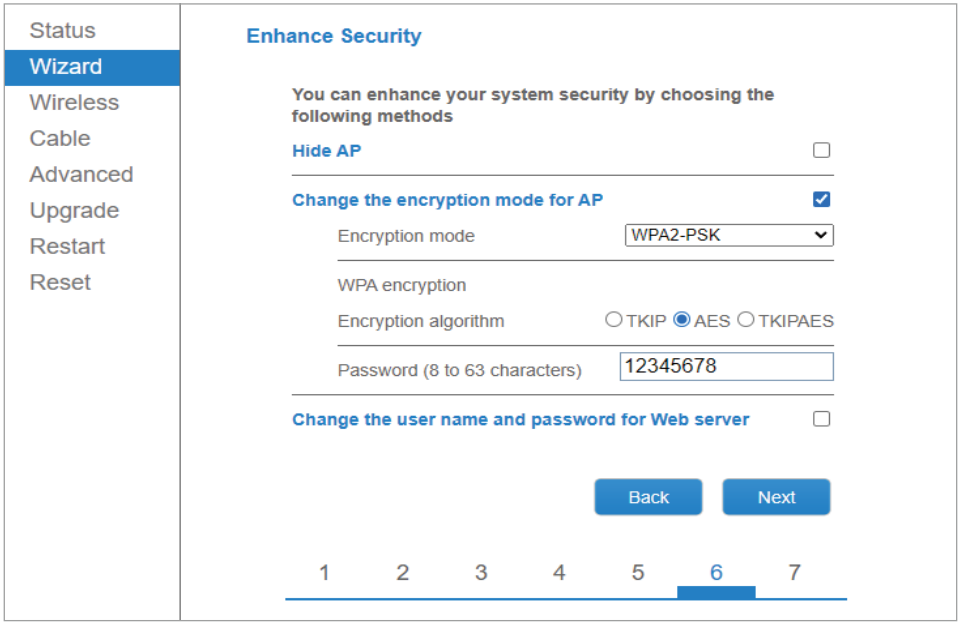
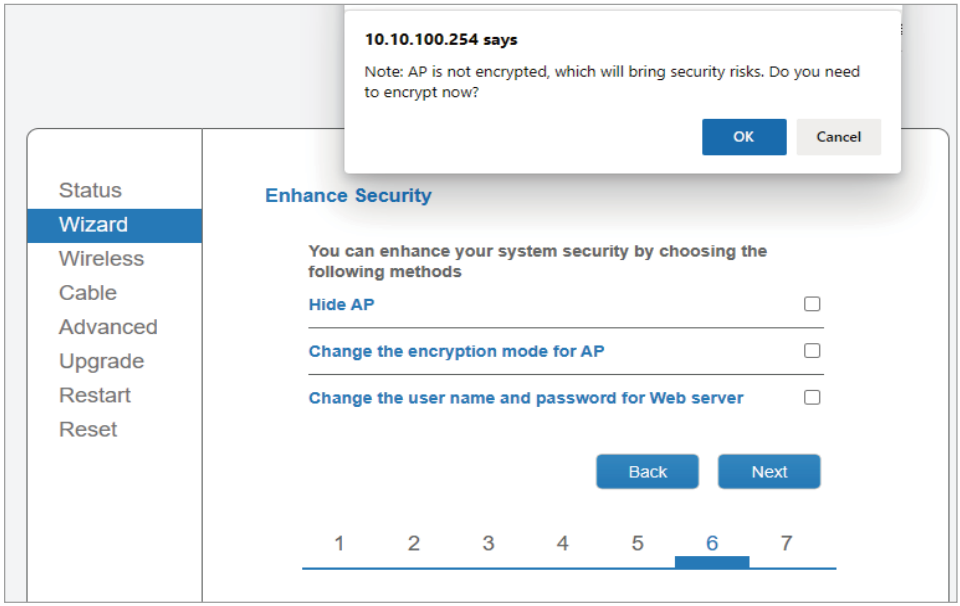


Step 5: If enhancing safety is not required, click "**Next**". System will remind you to encrypt AP, click "**Cancel**".



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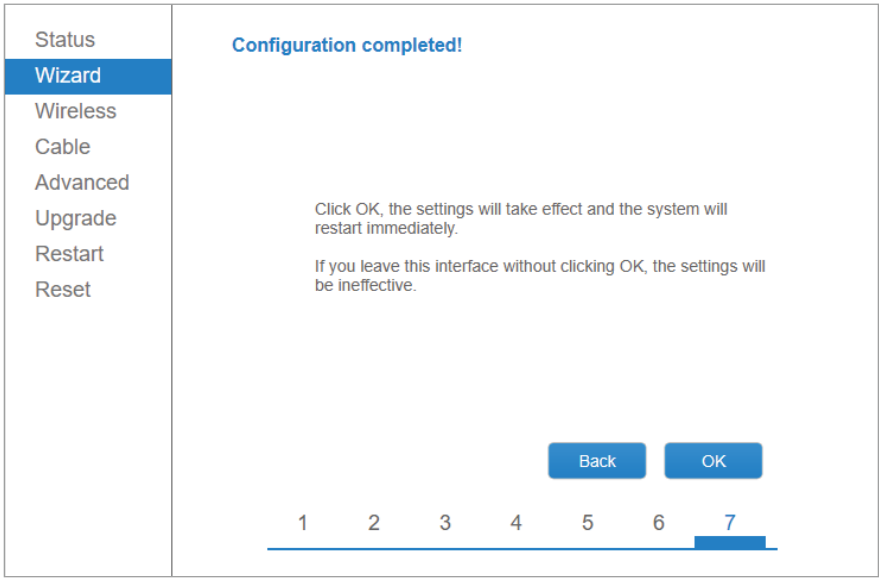
Step 6: Click "OK" to complete Ethernet configuration.



Step 7: Connect AP again according to the notification. Log in to WEB page and check if the network is successful.
If you need to enter the web page through IP address via LAN, please remember the actual IP address in Wireless Mode.

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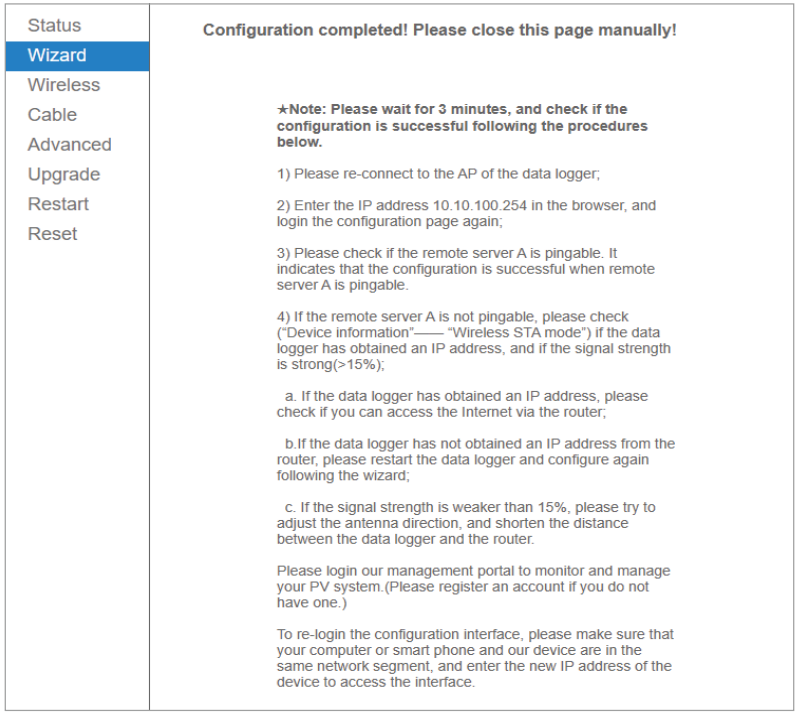

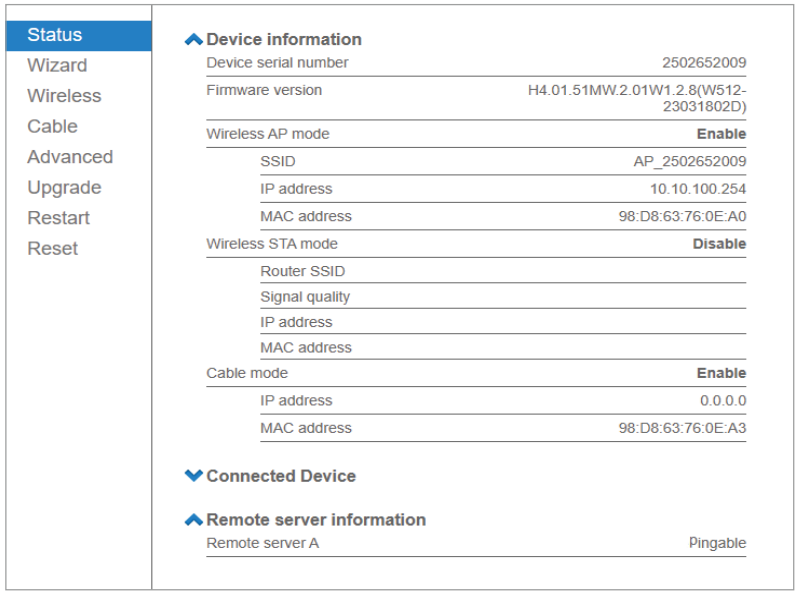

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After the network setting is completed, you can enter the web page through two methods to set up Feed-in limitation.
Method 1(Recommended): If AP is visible, connect AP via computer, mobile and other devices. Open a browser and enter: 10.10.100.254.
Method 2: If AP is hided, AP cannot be connected via computer, mobile and other devices. You need to keep the computer or mobile in the same LAN with the logger, and enter the assigned IP address by the logger in the browser to enter the web page.

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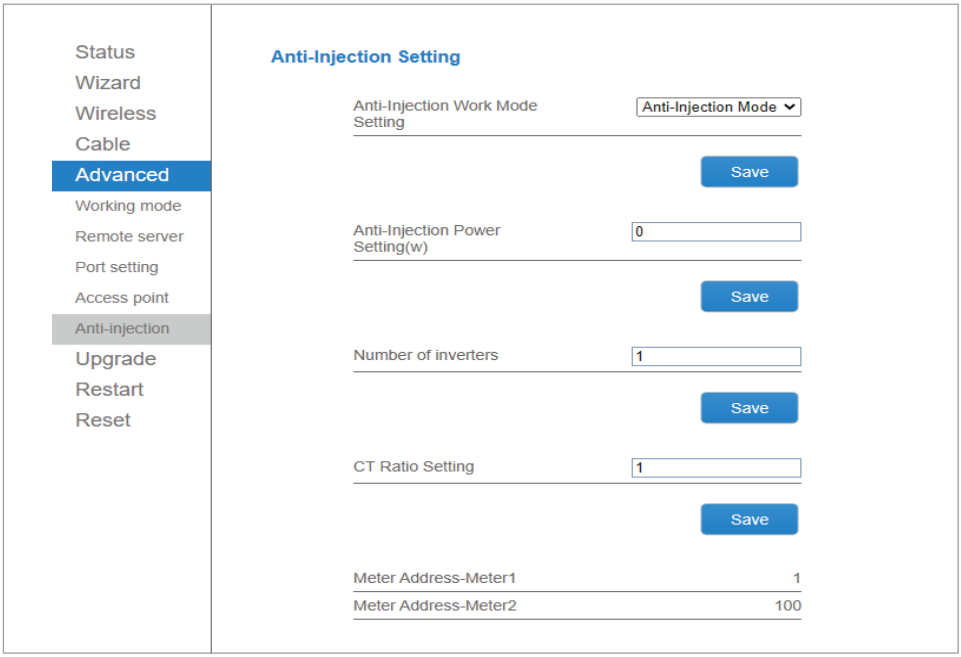
8. Feed-in limitation Setup

This step is required no matter what the network situation is.

8.1 Feed-in limitation setup

Step 1: Click “Advanced - Anti-reflux/Feed-in limitation/Anti-Injection”.



Step 2: Select Anti-reflux/Feed-in limitation/Anti-Injection Working Mode;
Set power: 0 W (Default).
If it is allowed to purchase electricity at a fixed power, please set according to purchasing power. (e.g. If the purchasing power is 1500W, please enter 1500.)

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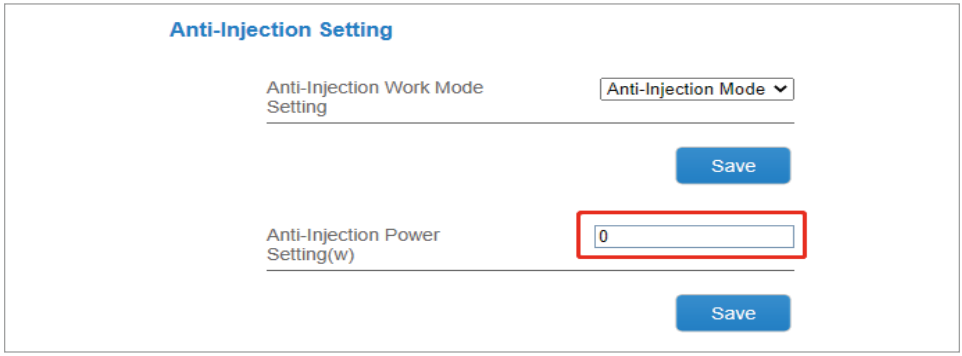
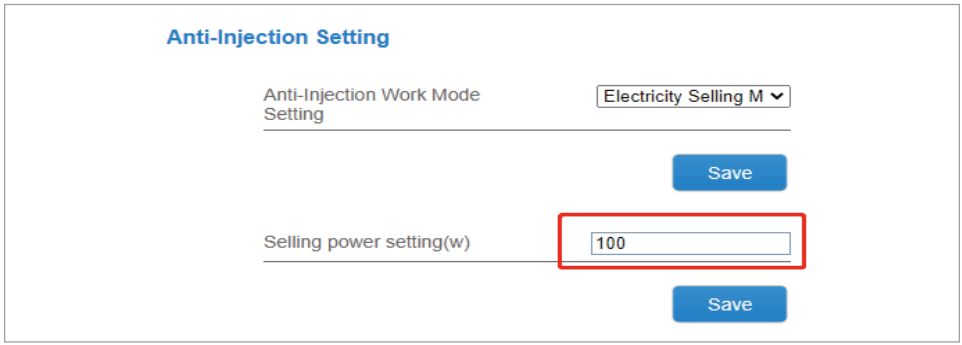


If you wish to sell the electricity, please select “Selling Mode” and enter selling power. (e. g. If the selling power is 100W, please enter 100.)



Step 3: Set [**inverter number**] (Please set according to actual inverter number.)



Step 4: Set [**CT ratio**] of meter on grid side (Meter1).



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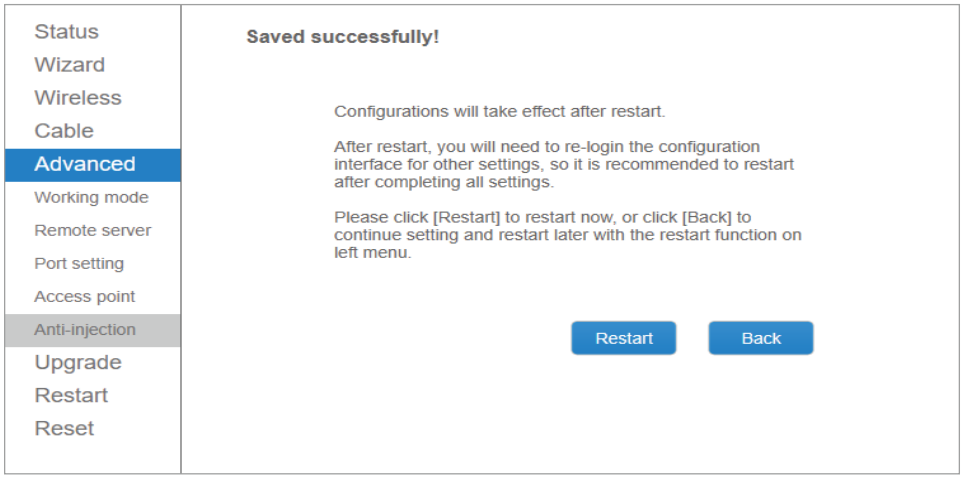
CT Ratio Setup

If you use 200/5A CT, please enter 40 and click “Save”.
After the setup, logger will reboot and send the ratio modification automatically.

Step 5: Click [Save – Reboot].



Step 6: Set CT ratio and systematical error of meter on generation side (Meter2).
Find a computer or a mobile phone to connect logger AP (XXXXXXXXX presents SN).
(E. g. AP_2502324799）

Go to a browser and enter “**10.10.100.254/fnl_hide.html**”, then go to Anti-reflu/Feed-in limitation/Anti-Injectionx hidden setup page.

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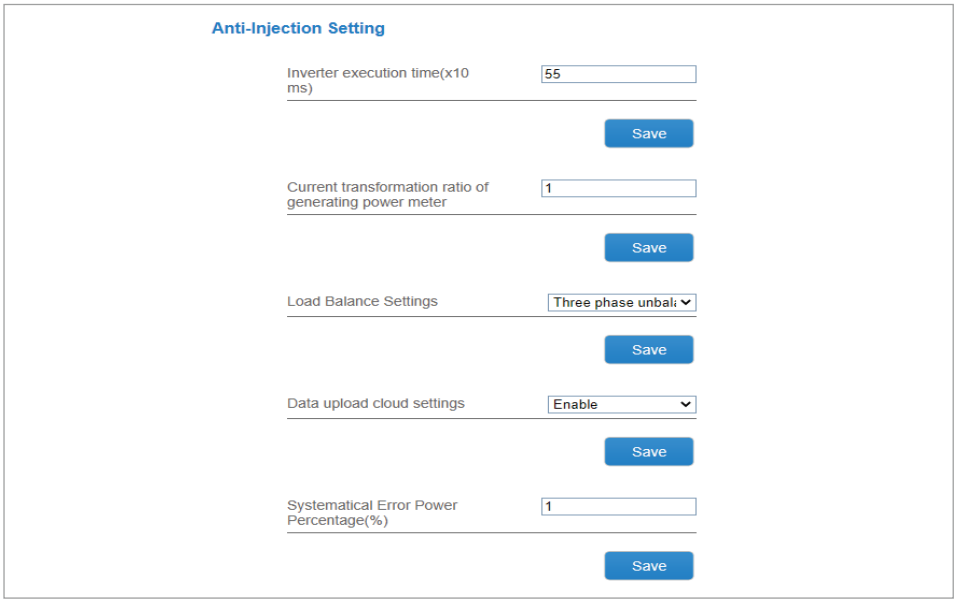
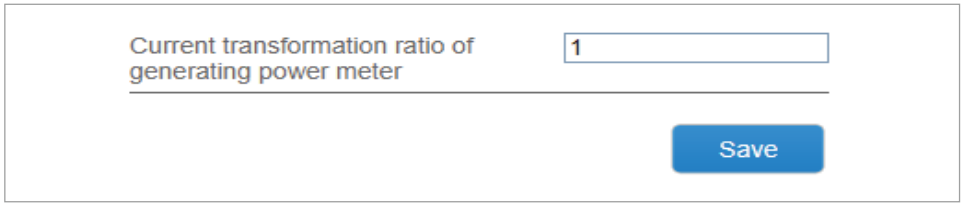


① Set [Current ratio of generation power meter]
Set CT ratio of meter on generation side (Meter2), please set according to actual situation.



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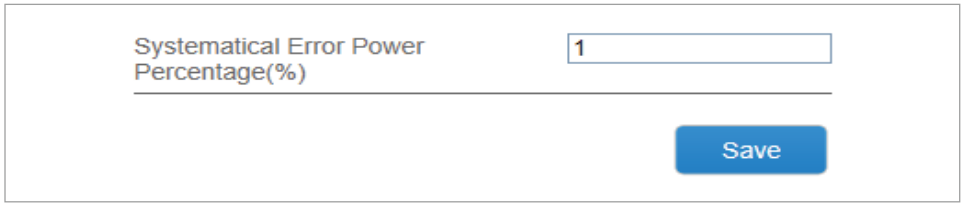
② Set [Systematical error]
Default: 1%.
If you wish to modify, please check CT accuracy (Calculation of systematical error: meter error + CT error. E. g. CT error: 0.5%，meter error: 0.5%, systematical error will be 1%.)



ATTENTION

· It is recommended to use CT with its error<0.5%.

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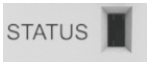
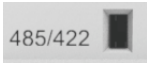
9. Instruction for Indicator Light, Dial Switch and Reset Button

9.1 Indicator Light

After DIN-Rail logger (Wi-Fi/ETH) connected to the device and networking is normal, check the status of STATUS light, LINK light, 485/422 light.

NOTE

· There is only one light for each STATUS light, LINK light, 485/422 light.

Light	Implication	Instruction
	Logger working status	1. OFF： DIN-Rail logger (Wi-Fi/ETH) works abnormally. 2. ON： DIN-Rail logger (Wi-Fi/ETH) works normally. 3. ON after 5s： DIN-Rail logger (Wi-Fi/ETH) starts/restarts.
	Communication status with logger and router	1. Flashing: Network configuration is not conducted after first power on or reset. 2. Configure to Wi-Fi and connect to router： Light: ON; If not, Light: OFF 3. Configure to Ethernet and connect to router: Light: Flash; If not, Light: Flash
	Communication status with logger and inverter	1. ON/Fast Flash： DIN-Rail logger (Wi-Fi/ETH) connected to inverter and communicate normally. 2. OFF: DIN-Rail logger (Wi-Fi/ETH) not connected to inverter and communicate abnormally.

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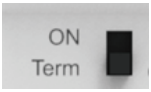
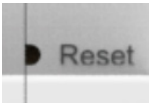
9.2 Repeater light

Light	Implication	Instruction
	RS485 IN	1. OFF: No data transmission 2. Flash: Data transmitting 3. ON: Abnormal
	RS485 OUT	1. OFF: No data transmission 2. Flash: Data transmitting 3. ON: Abnormal
	Power	1. ON: Normal power-on 2. OFF: Fail to power on

9.3 Dial Switch

Light	Implication	Instruction
	RS485 terminal 120Ω matching resistance switch	Default:Term ON: A problem with 485 link when there are various inverter on site (Turn on one dial switch either for logger or inverter; If a repeater is connected, there is no need to turn on this switch)

9.4 Reset Button

Light	Implication	Instruction
	Reset button	Long press for 4s to reset the logger and restore factory settings.

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10. SOLARMAN Monitoring

***If the SAR-100 is only used for Feed-in limitation purpose, networking is not required, users can skip this step directly.**

10.1 Register

① If you have a household PV plant, it is recommended to use SOLARMAN Smart.
Scan the QR code below to download or go to Android/App Store searching for SOLARMAN Smart.

For web: **https://home.solarmanpv.com**

SOLARMAN Smart

② If you are a distributor, O&M provider, manufacturer in PV field, it is recommended to use SOLARMAN Business.
Scan the QR code below to download or go to Android/App Store searching for SOLARMAN Business.

For web: **https://pro.solarmanpv.com**

SOLARMAN Business

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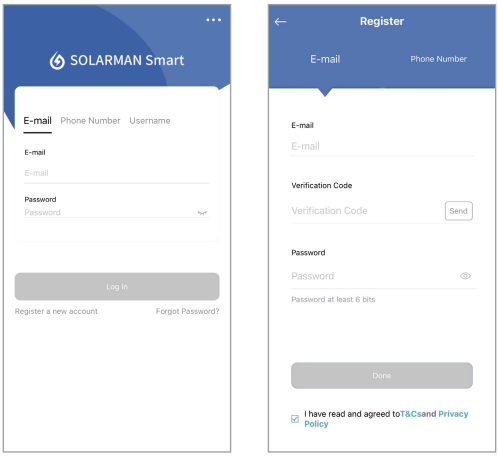
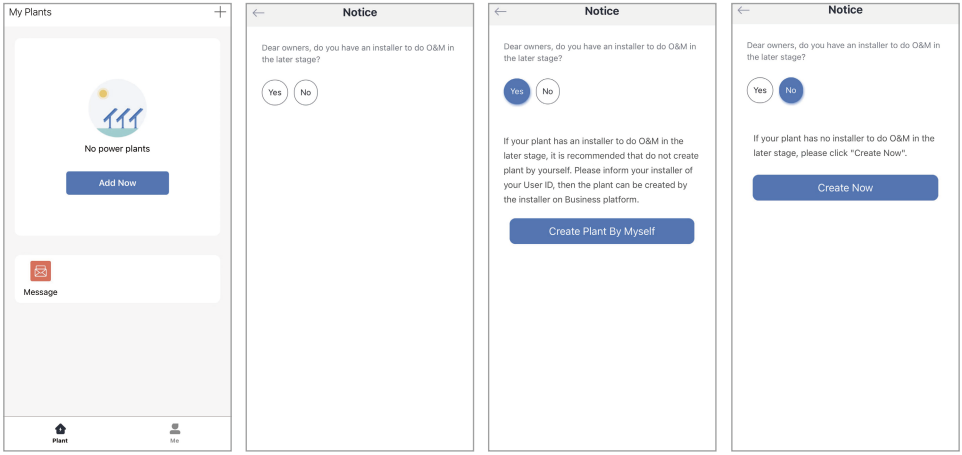
10.2 SOLARMAN Smart APP

Step 1: Registration
Go to SOLARMAN Smart APP and click **"Register a new account"** and select **[E-mail] or [Phone Number]** to register.



Step 2: Create a plant
Click **"Add Now"**.
Choose **"Yes"** to select **"Create Plant By Myself"**.
Choose **"No"** to select **"Create Now"**.



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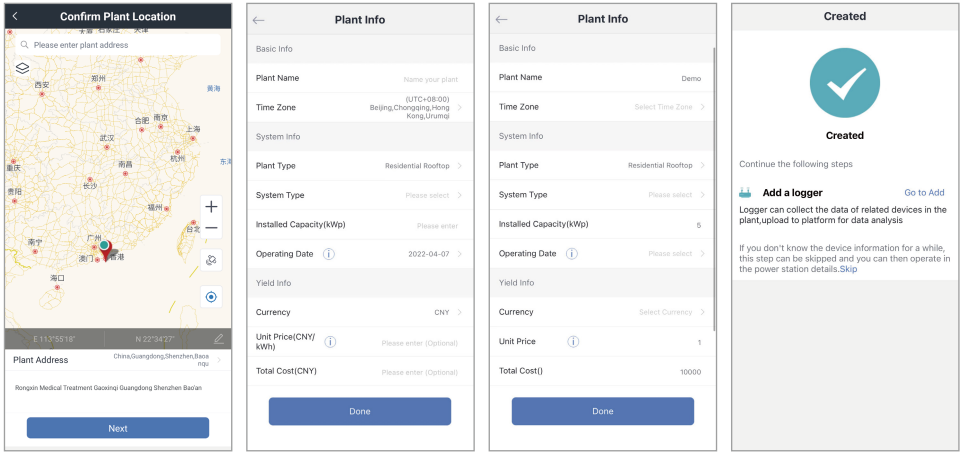
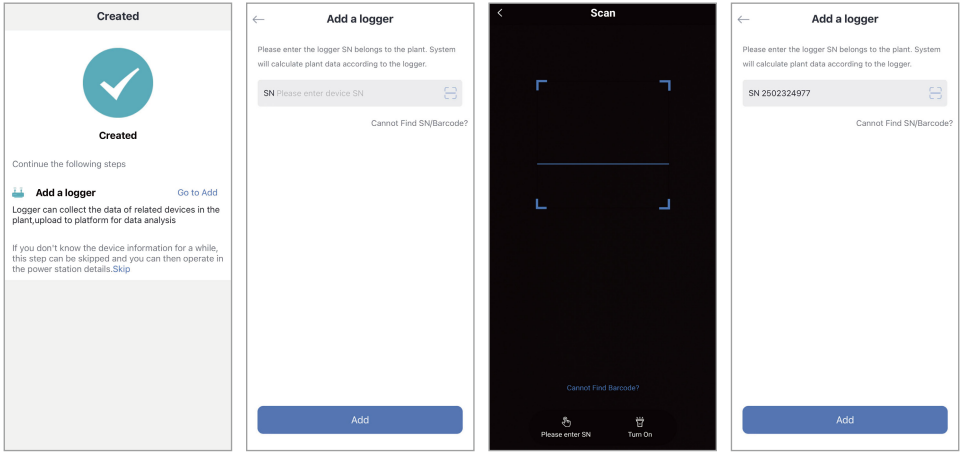
Step 2.1: Users can select plant location automatically or enter plant location manually, then click “**Next**”. Please select “**System type**” as “**Self-consumption**”. Users need to enter plant information here, click “**Done**” to complete.



Step 3: Add a logger

Click “**Go to Add**”, enter SN manually or scan bar code, then click “**Add**”.



Step 3.1: Click “Skip” to return homepage and click plant name to visit a plant. User can click “...” in the upper right corner and click “Add a logger”. (Please follow step 3)

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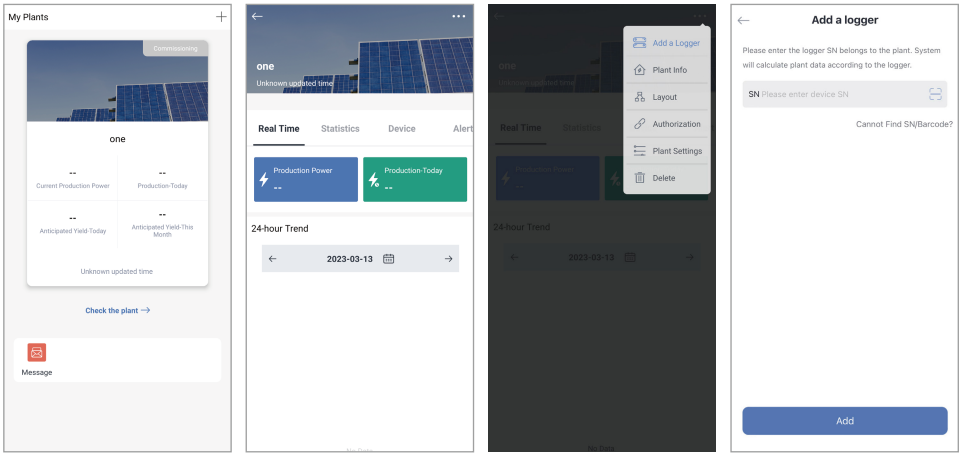


Step 4: Select associated device

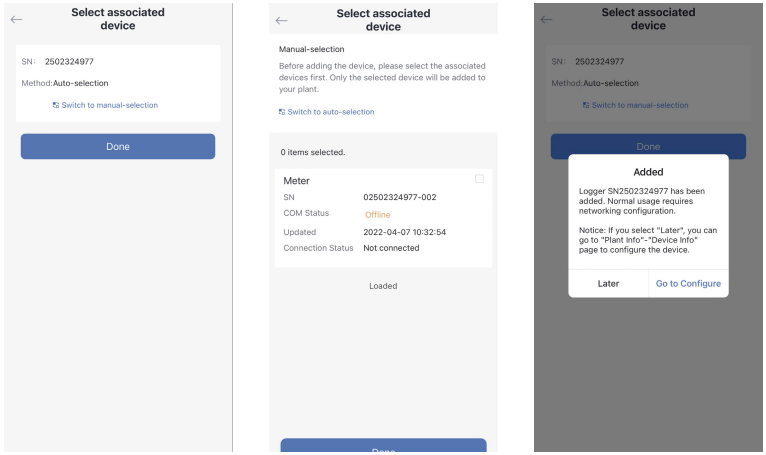
After the logger is added, system will go to "**Select associated device**", if you will not change associated method, click "**Done**". If you are going to change associated method, click "**Manual selection**".

(Network configuration has been done at step 6)

Click "**Later**" to return to homepage.

NOTE

· Logger SN will be displayed in the device list after 10 mins.



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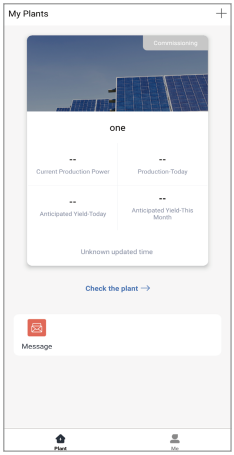
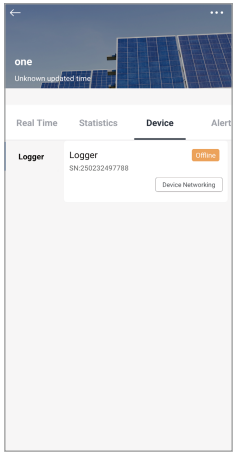
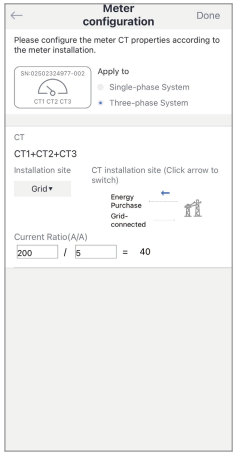
Step 5: Meter configuration
Click plant name to visit a plant. (If you are in plant details page, you can click “**Device**”directly)
Click “**Device**” - “**Meter**” - “**Meter configuration**”, go to select “**Three-phase System**”-“**Grid**”, click a blue arrow in CT direction and change to “**Energy Purchase**”.
Current ratio can set according to CT specification. (e.g. If you choose 200/5A CT, set current ratio as 200/5)
Click “**Done**” to return to “**Device**” page.







Step 6: Plant Settings
Set Power calculation method, data sourcing and non-operating hours Power
① Power calculation method:
Click “...” in the upper right corner and go to “**Plant Settings**”. Click “**Power calculation method**”, set “**Based on device data**” for total energy, set “**Based on calculation data**” for total consumption, set “**Based on device data**” for total grid-tie energy, set “**Based on device data**” for total energy purchased and click “**Save**”.

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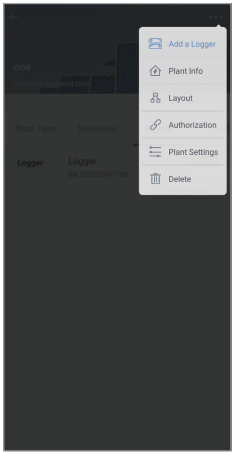
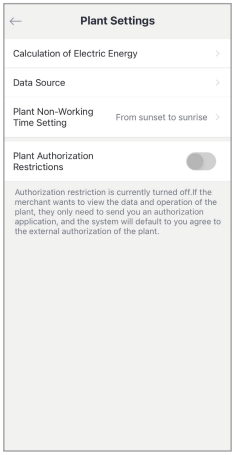
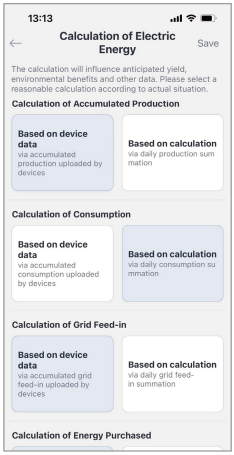
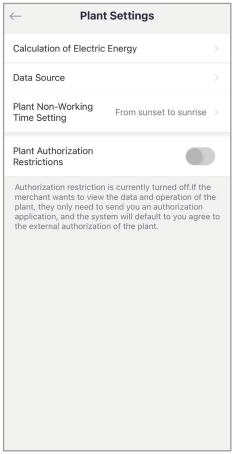


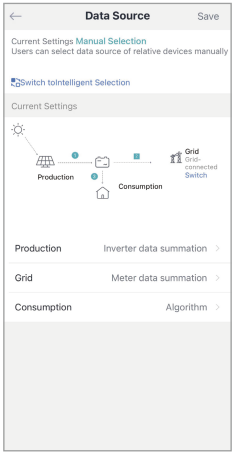


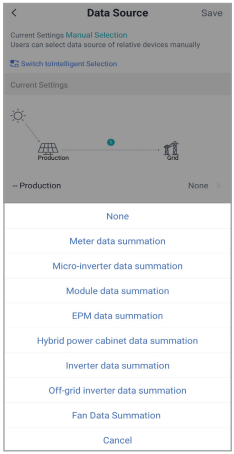


② Data sourcing

Click “**Data sourcing**” - “**Switch to manual selection**”. Select “**Gird-tie**“ for grid side, select “**Inverter data summation**” for generation, select “**Meter data summation**” for grid and select “**Calculation method**” for consumption and click “**Save**”.







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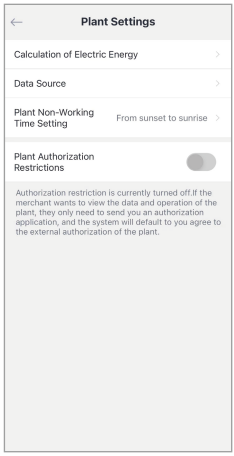
③ Non-operating hours

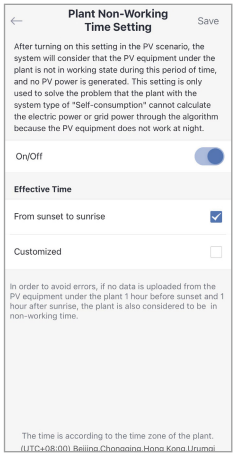
Click “**Non-operating hours settings**” and enable it.

Effective time: From sunrise to sunset.

Click “**Save**”.

(Users can set the time according to actual situation.)





④ Back to plant details to check data.

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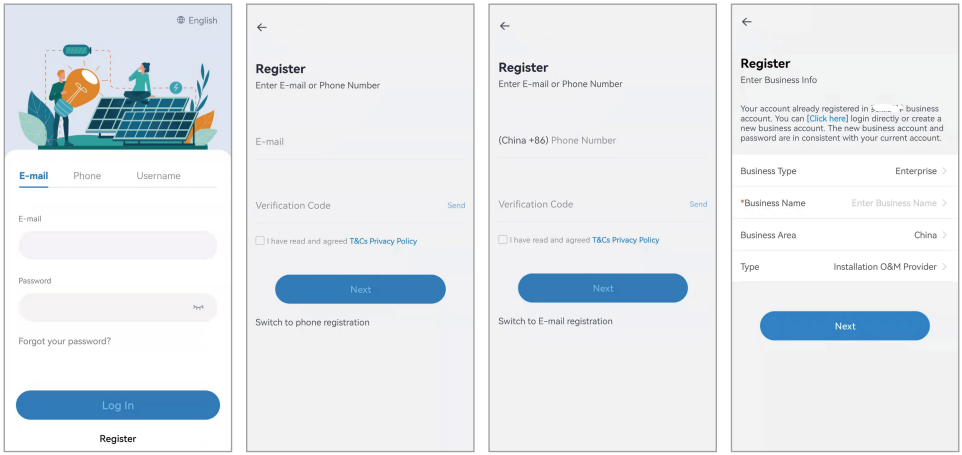
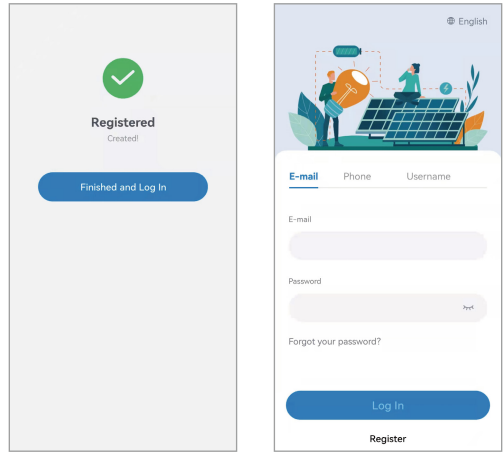
10.3 SOLARMAN Business APP

Step 1: Registration Go to SOLARMAN Business APP and click **"Register"** - **"Switch to E-mail registration"**. Click **"T&Cs"** and click **"Next"**. Select **"Business Type"**, enter **"Business Name"**, select **"Business Area"**, select **"Type"** and click **"Next"**.
If you already have an account, click **"Click here"** to return to login page.



The following page will display and click **"Finished and Log In"** to return to login page.Enter information and click **"Log In"**.



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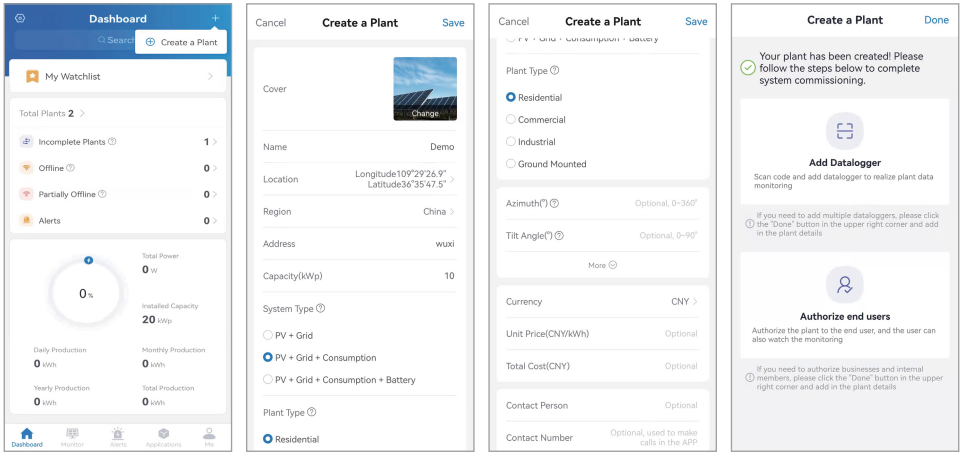
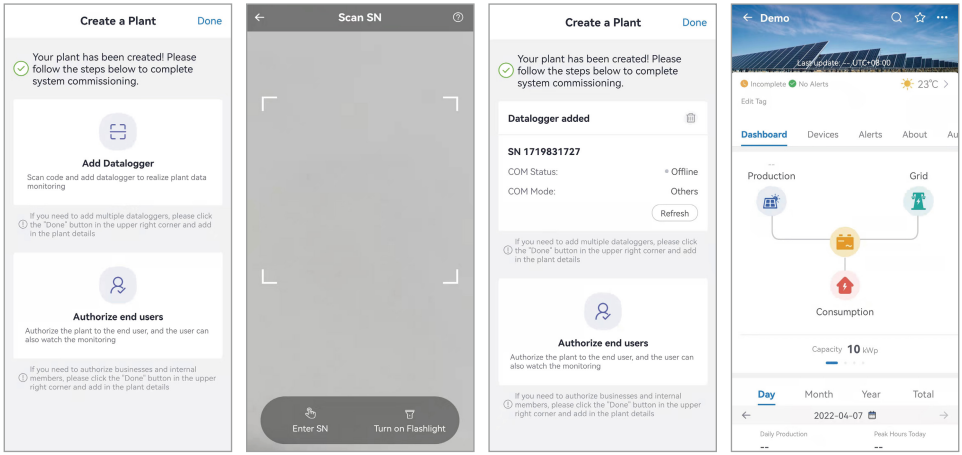
Step 2: Create a plant

Click “+” in the upper right corner, select “**Create a Plant**” and enter plant information, select system type as “**PV+Grid+Consumption**”, then click “**Save**”.



Step 3: Add a logger

Click “**Add Data logger**”, enter SN manually or scan bar code, then click “**Done**”.



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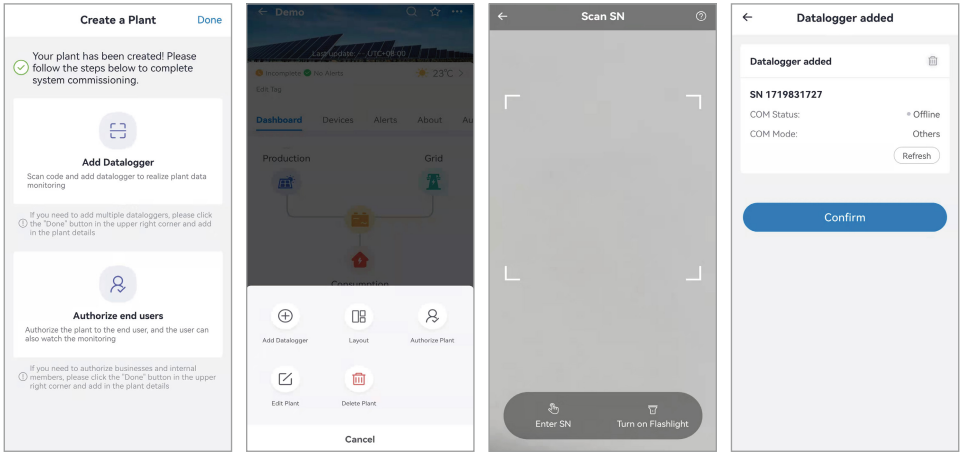
Step 4: If not, click “**Done**” to return to “**Dashboard**”.
Click “**...**” in the upper right corner in “**Dashboard**” page, click “**Add Data logger**”, enter SN manually or scan bar code, then click “**Confirm**”.



NOTE

· Logger SN will be displayed in the device list after 10 mins.

Step 5: Meter configuration
Click “**Devices**”, choose target meter and click “**Meter configuration**”, go to select “**Grid**”, click a blue arrow in CT direction and change to “**Energy Purchase**”.
Current ratio can set according to CT specification. (e.g. If you choose 200/5A CT, set current ratio as 200/5)
Click “**Save**” to return to “**Devices**” page.
(System will use three-phase/single-phase system in default.)

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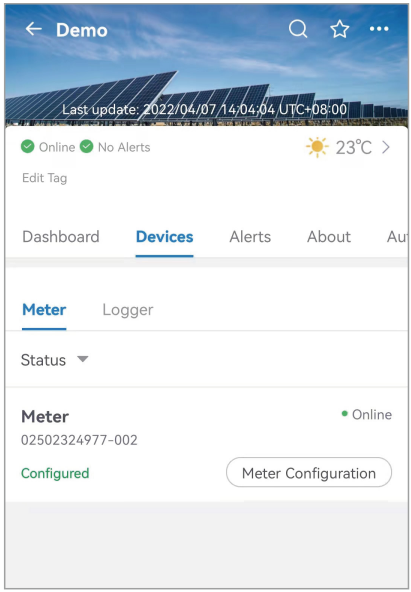

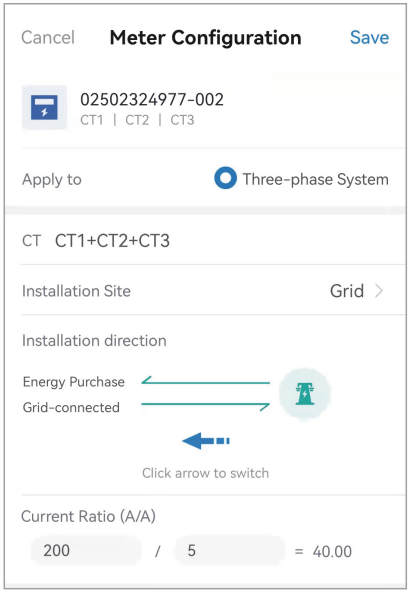

Step 6: Plant Settings

NOTE

· SOLARMAN Business APP does not support the settings, please go to SOLARMAN Business Web to set.

Set [**Power calculation method**], [**Data sourcing**] and [**non-operating hours**].

① Data sourcing:
Click "**More**" in the upper-right corner, go to "**Plant Settings**" and click "**Data sourcing**".
Select "**Manual Modification**" and the arrow at Place 4 will point to grid.
Select "**Inverter data summation**" for generation, select "**Meter data summation**" for grid and select "**Calculation method**" for consumption and click "**Save**".

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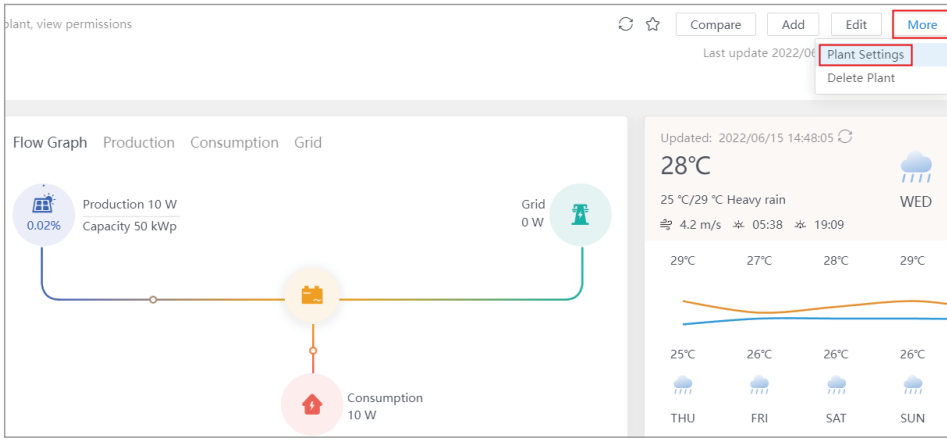

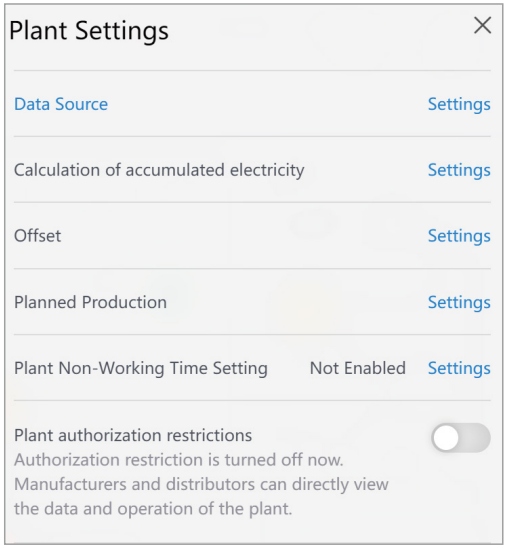



② Power calculation method

Click “**Power calculation method**”.

Select “**Accumulated production summation uploaded by devices**” for calculation of accumulated production.

Select “**Daily consumption summation**” for calculation of accumulated consumption.

Select “**Energy purchased summation uploaded by devices**” for calculation of energy purchased.

Select “**Grid feed-in summation uploaded by devices**” for calculation of grid feed-in.

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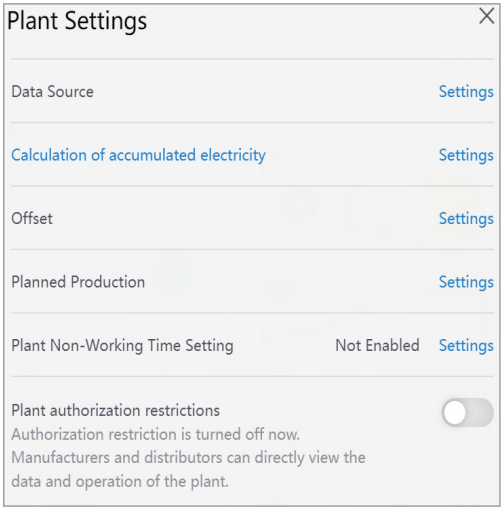

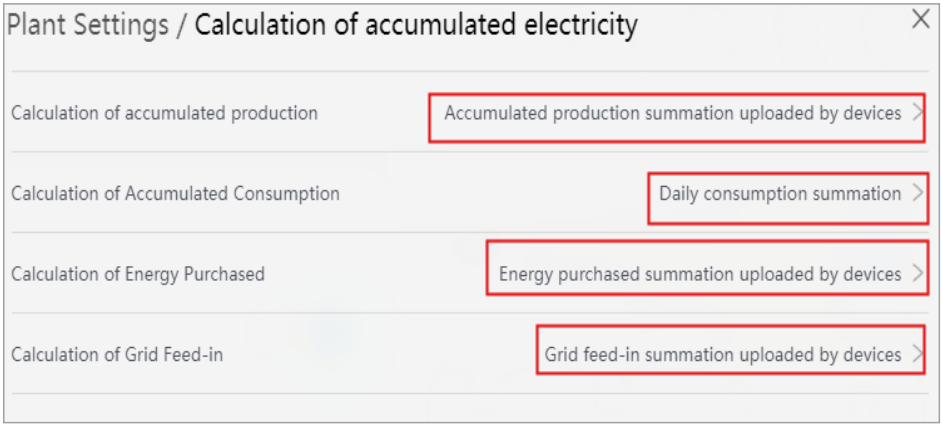

③ Non-operating hours

Click **"Non-operating hours settings"** and enable it.

Effective time: From sunrise to sunset.

Click **"Save"**.

(Uses can set the time according to actual situation.)

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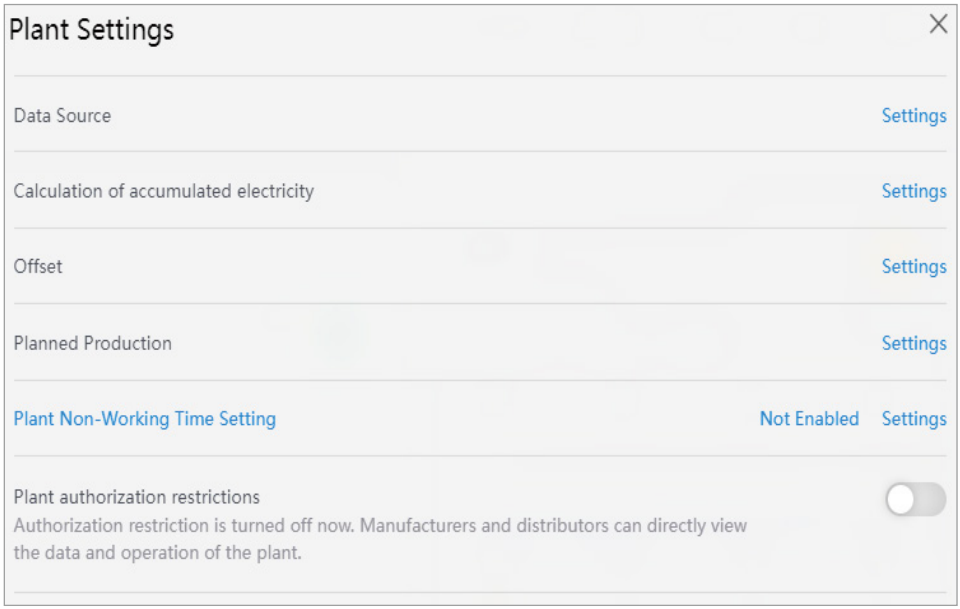

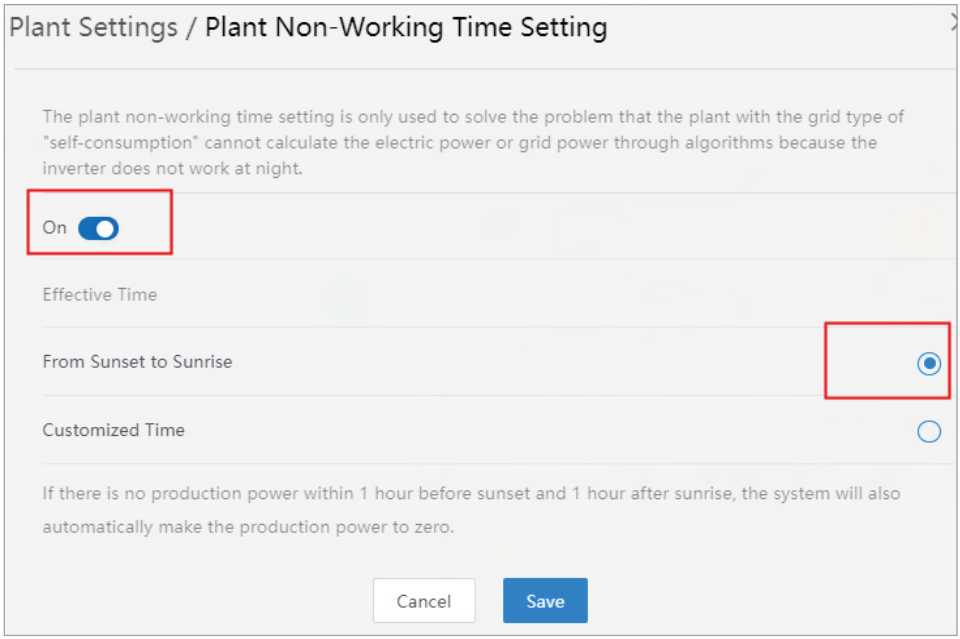

④ Back to plant details to check data.

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11. Contact US

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