swatten
Powered by Sieyuan

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Swatten Self-consumption Mode Solution

User Manual

Shanghai Sieyuan Watten Technology Co., Ltd.
Member of Sieyuan Electric Co., Ltd.

86-21-61610846
swatten@sieyuan.com
www.swatten.com

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86-21-61610846 swatten@sieyuan.com www.swatten.com

1. Introduction to Self-Consumption Mode

Self-consumption mode(self CSMP) is the inverter's default working mode. In this mode, PV energy is prioritized for load use, then it charge the battery. Surplus energy could be sold to the grid. The battery is only used for the load and will not be fed back to the grid.

2. Installation Preparation and Precautions

Installation and Wiring Operations

During the installation of the inverter and the cable wiring, please strictly follow the steps and diagrams in the Quick Start Guidel for standardized operations.

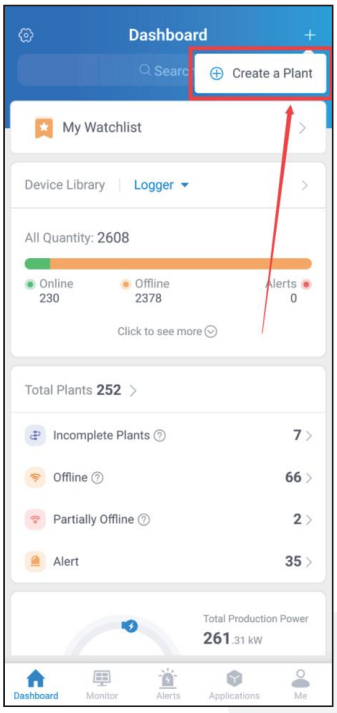
Pre-power-on Inspection and Operations

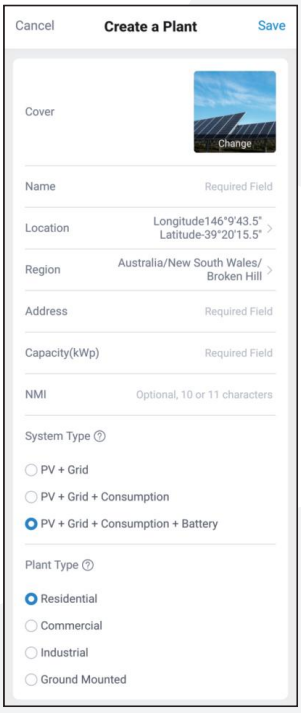
After completing the above installation steps, it is necessary to comprehensively inspect again whether all wiring terminals are firm and whether the circuit connection is correct. After confirming that the wiring is correct and in compliance with safety regulations, you can turn on all circuit breaker to power on the inverter.

3. Solarman Commissioning Method

3.1. Download and Register

Please download the Solarman Business App from the app store, register an account, and log in with an email address. (Downloading, registration, and login steps are omitted here.)





On the Dashboard interface, click the "+" icon in the upper right corner, select "create a plant", then fill in the relevant information in sequence according to system prompts and click "save" after completion.

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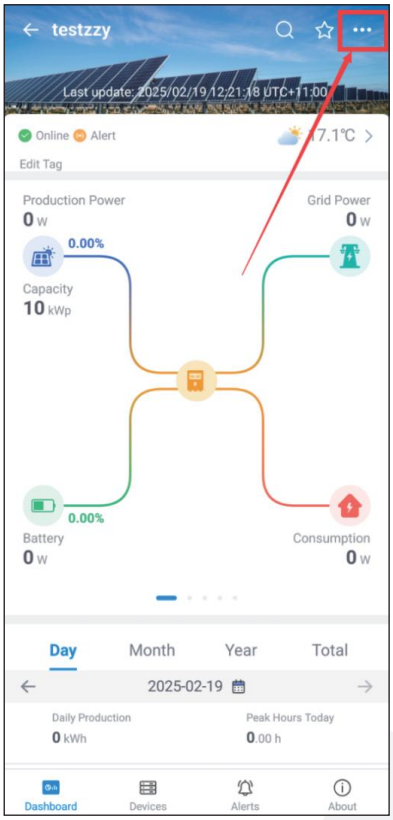
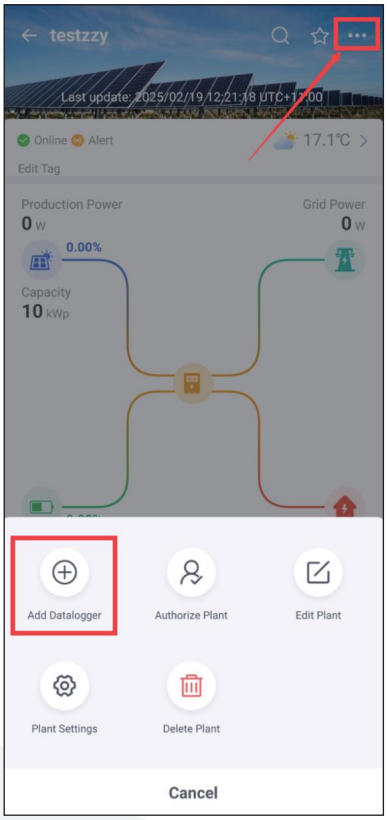
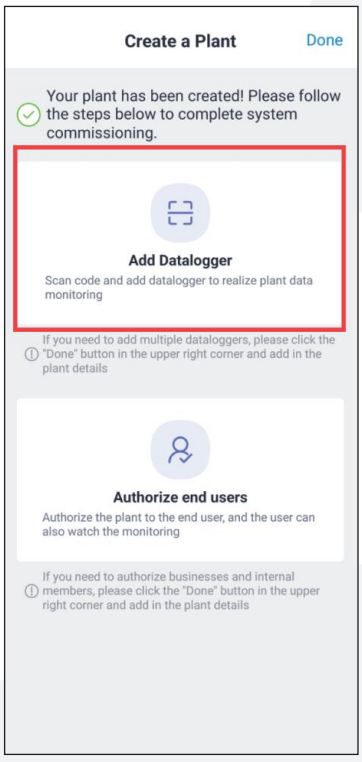
3.2. Add Datalogger

Please scan the QR code on the logger.

Enter the Dashboard interface of the newly created plant, click the "..." icon in the upper right corner, select "add datalogger", then scan the QR code on the WiFi logger to complete the binding operation.







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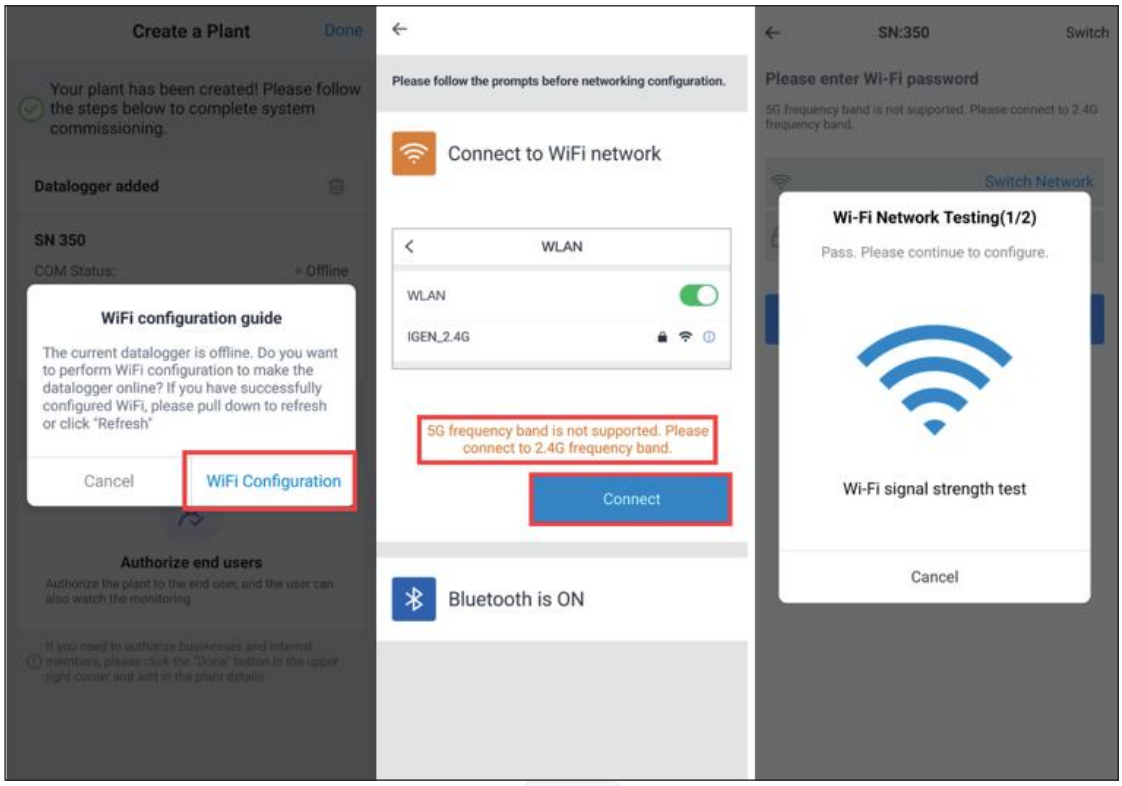
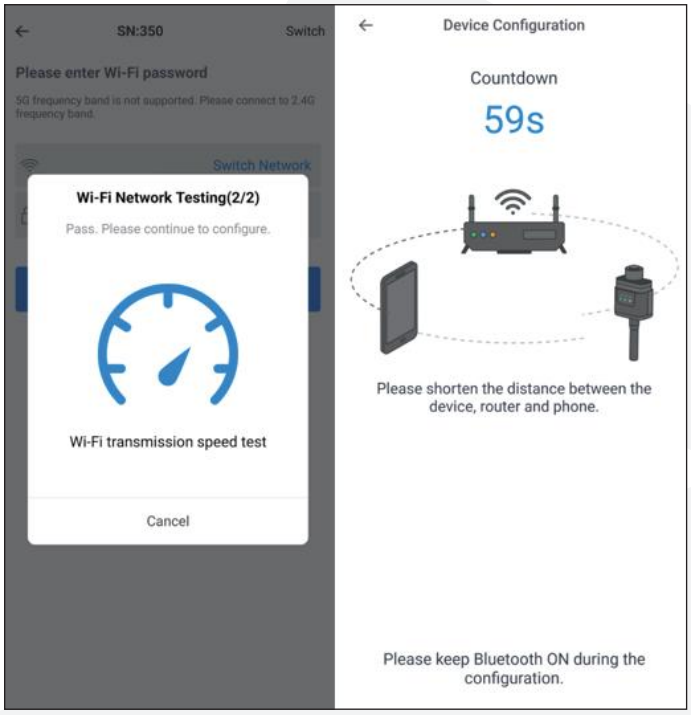
3.3. WiFi Configuration

Complete the WiFi connection according to on-screen prompts.

Ensure the Logger receives a good WiFi signal (only 2.4GHz is supported).





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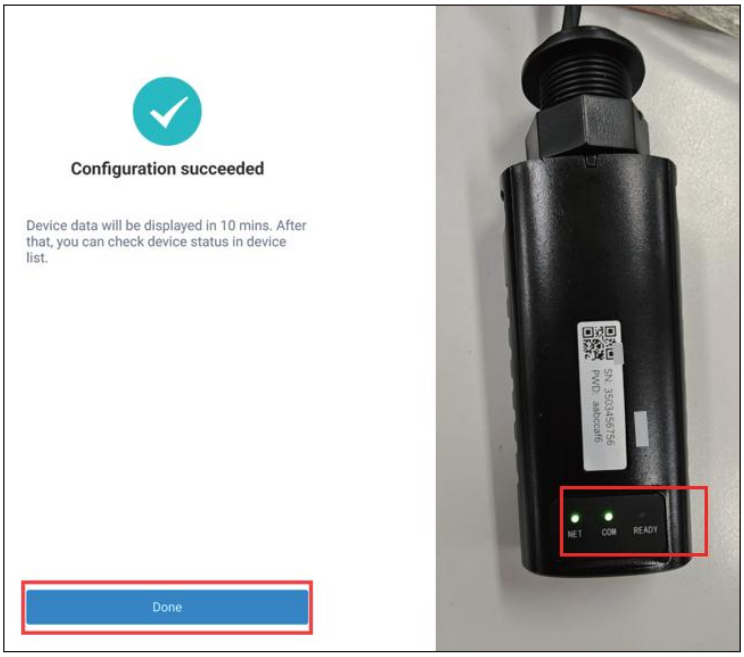
3.4. After WiFi Connection

The NET and COM indicators will stay on.

The READY indicator will flash.

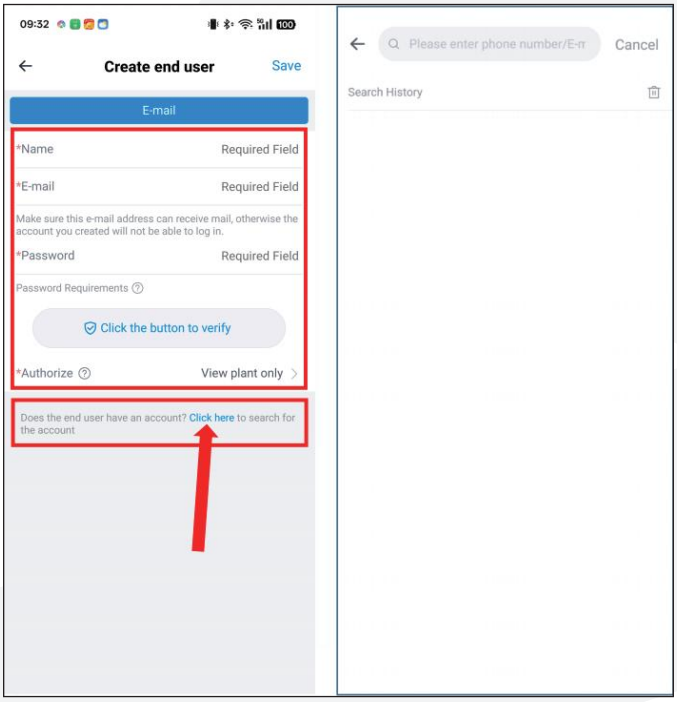


3.5. Share the plant to end-users

Fill in the information for the end user, and invite the end user to download the Solarman Smart App from the app store.

They can log in using the email address and password you've filled in as their account credentials.

If the end user has already registered for Solarman Smart, please search for the end user's mobile phone number or email address through the "Click here" option below to complete the authorization process.



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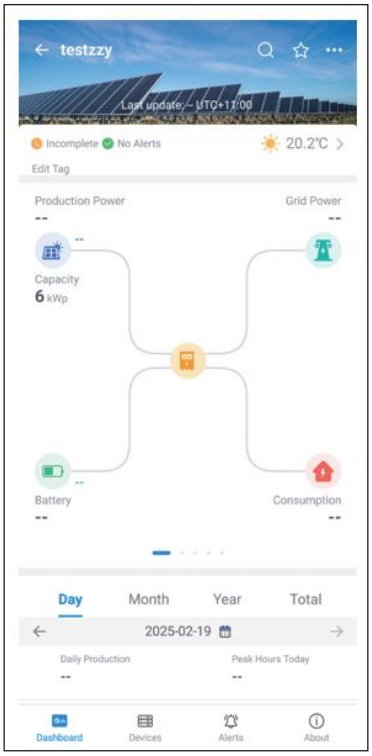
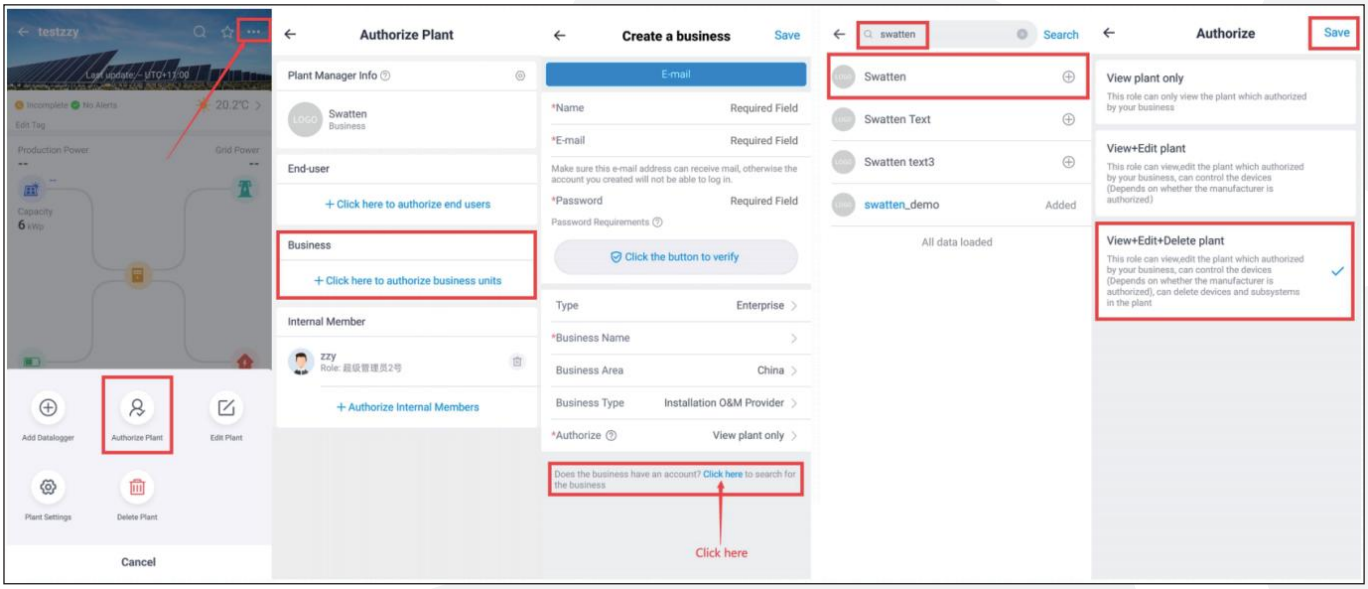
3.6. System Update

After completing the above operations, the system status will be updated in approximately 10 minutes.



3.7. Share the plant to end-users

To facilitate technical support and issue resolution after installation, it is highly advisable to authorize the power station to Swatten.



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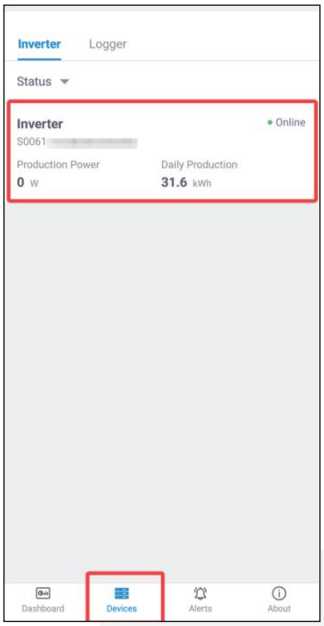
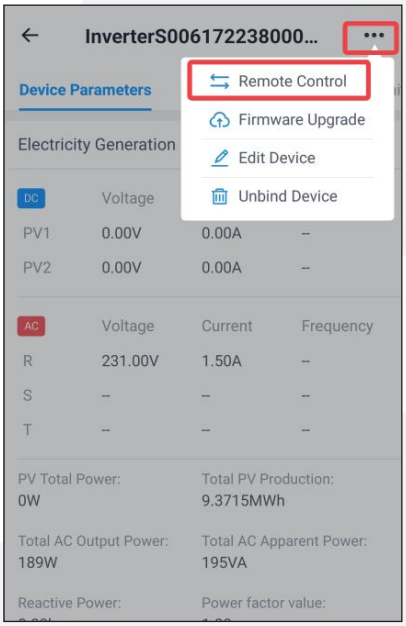
3.8. Commissioning finished

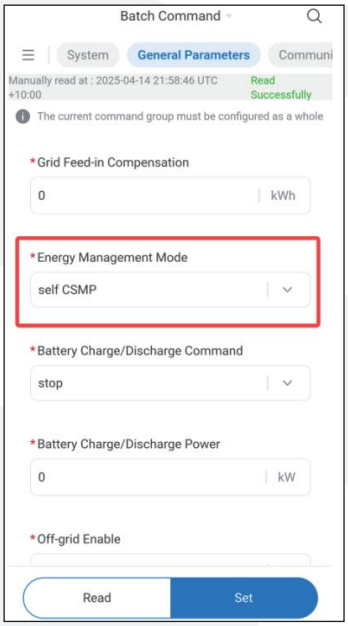
The App commissioning and authorization are now completed. You don't need to make any further settings.

4. App Working Mode Selection and Settings

On the Device interface, click the inverter, then select the "..." icon in the upper right corner - remote control, and confirm whether the current working mode of the inverter is the self CSMP mode in batch command - general parameters.







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5. On-site Inspection after Completing Installation and App Setting

5.1. On-site Verification

If the critical load is connected to the BACKUP/EPS port, please turn off the DC switch on the left side of the inverter and the circuit breaker on the Grid side in sequence to simulate the situation of no PV power generation at night and a power outage, and confirm whether the battery can supply power to the critical load normally.

If the critical load is NOT connected to the BACKUP/EPS port, please turn off the DC switch on the left side of the inverter to simulate the situation of no PV power generation at night, and confirm whether the battery can supply power to the load normally.

If the battery fails to supply power after the above operations, please check the wiring again, or contact us for assistance through the contact information at the end of this document.

5.2. App Verification

In the energy flow diagram, photovoltaics provide power for load electricity and battery charging, and excess power is fed into the grid.

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