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SiH-5-10kW-TH

Parallel Instruction

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About

This manual introduces how to set the Parallel Configuration Guide by Solarman App for SiH-5/6/8/10kW-TH Inverter Models with explanations for you to understand and use this system flexibly and effectively.

Target Group

This manual is intended for professional technicians who have responsibilities for the installation, operation, and maintenance of inverters, as well as users who need to check inverter parameters.

How to Use This Manual

- Please carefully read this manual before utilizing the product and store it in a readily accessible location.
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1. Introduction to Parallel Operation Mode

The parallel operation mode refers to the operational method of combining multiple inverters to work collaboratively, mainly used to meet high-power power supply requirements.

2. Installation Preparation and Precautions

Before starting the parallel operation process, please ensure to contact Swatten or your distributor for technical support to ensure the safe and smooth progress of the parallel operation.

Supported Models and Quantity

Currently, Swatten's SiH-5/6/8/10kW-TH models only support parallel operation of two inverters.

Distance between Inverters

The distance between the two inverters should not exceed 10 meters to ensure normal parallel operation.

Parameter Setting Requirements

In the parallel system, each inverter must be set exactly the same. Do not only set the master inverter to avoid abnormal operation.

Smart Meter Connection

Only the Master inverter needs to be connected to the smart meter, and the Slave inverter does not need to be connected a meter.

Parallel Communication Cable

New Version: If the Quick Start Guide version is 20250330 or later, it is a new version, please find a standard network cable and retain only pin1, pin2, pin3, and pin6. for parallel cable connection.

Old Version: If the Quick Start Guide version is earlier than 20250330, it is an old version. Remove pins 5 and 6 at both ends of the standard network cable and re-make the RJ45 connector before use.

Installation and Wiring Operations

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

EPS Operation

After confirming that all wiring is correct, keep the EPS circuit breaker of all inverters in the off state first, and then turn them on after all parallel settings are completed.

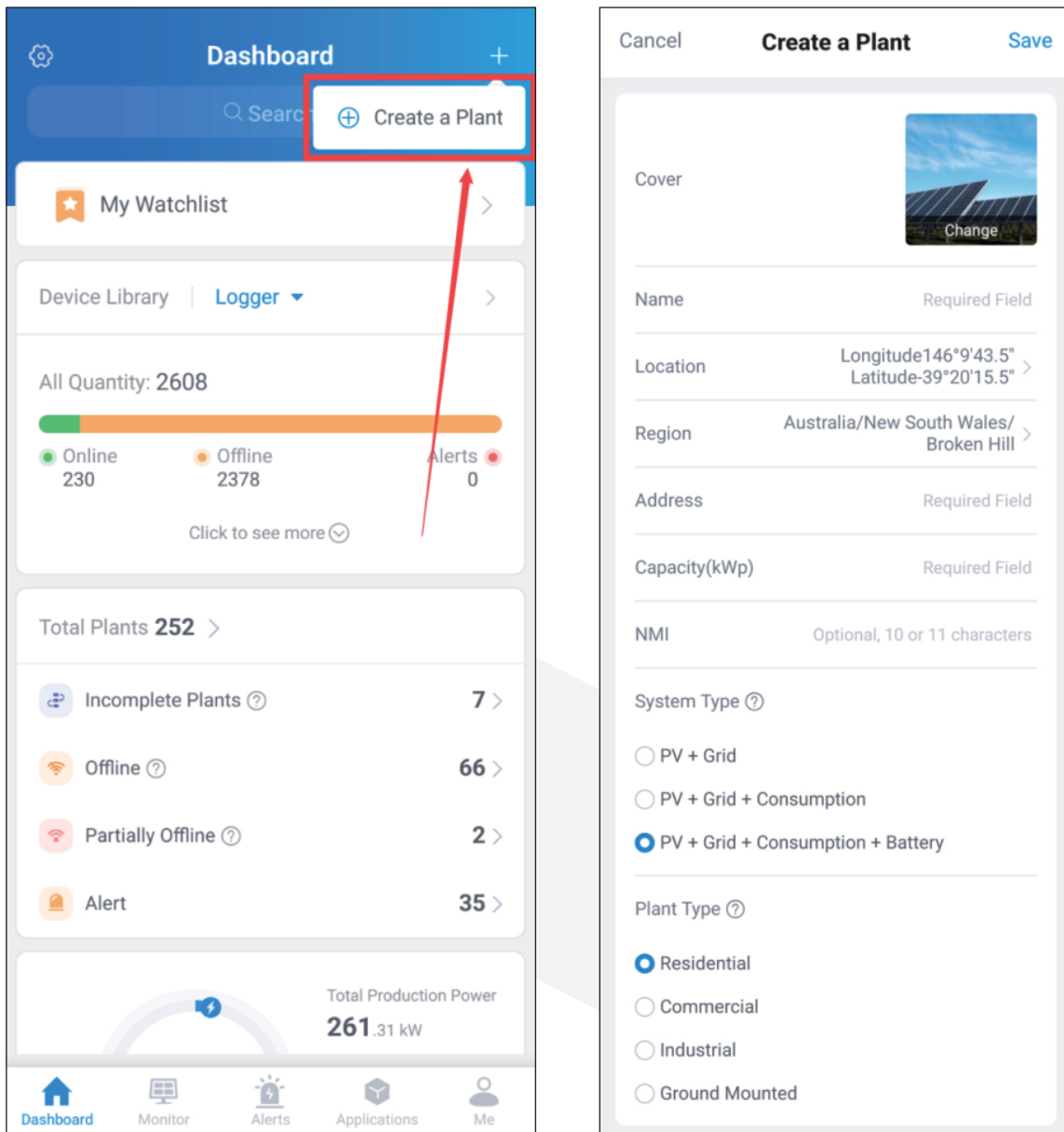
Pre-power-on Inspection and Operation

After completing the above installation steps, comprehensively inspect whether all wiring terminals are firm and the circuit connections are correct. After confirming that the wiring is correct and meets safety specifications, sequentially turn on all battery circuit breakers and the circuit breakers at the GRID port of the inverter to power on and enable 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.)

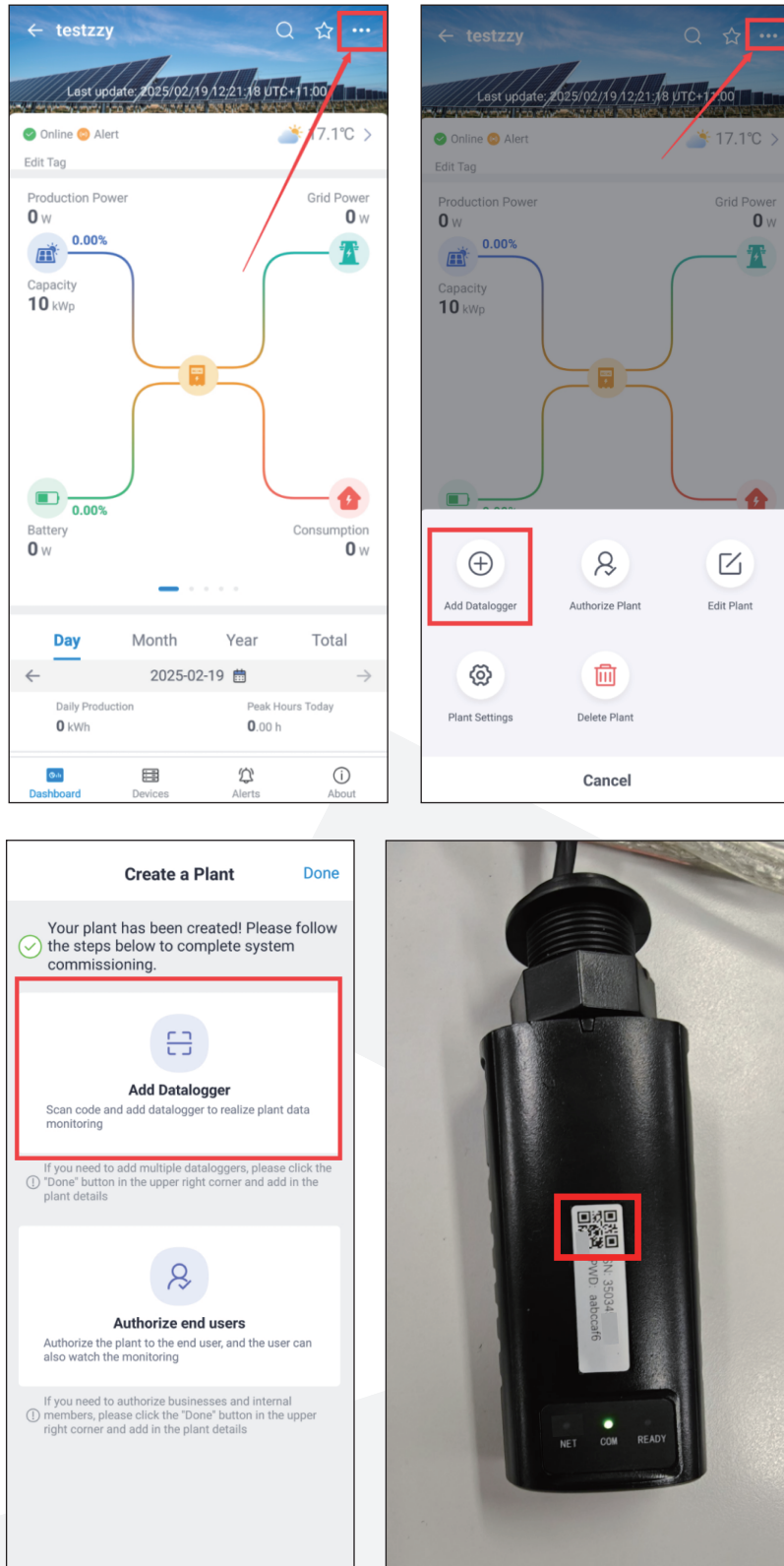


On the Dashboard interface, click the "+" icon in the upper right corner, select "create a plant", then fill in the relevant information in sequence according to system prompts and click "save" after completion.

3.2. Add Datalogger

Please scan the QR code on the logger.

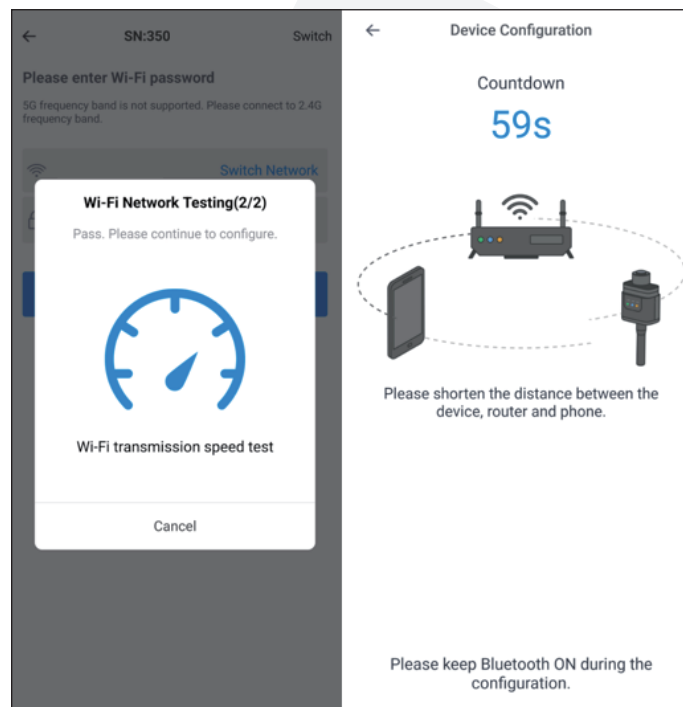
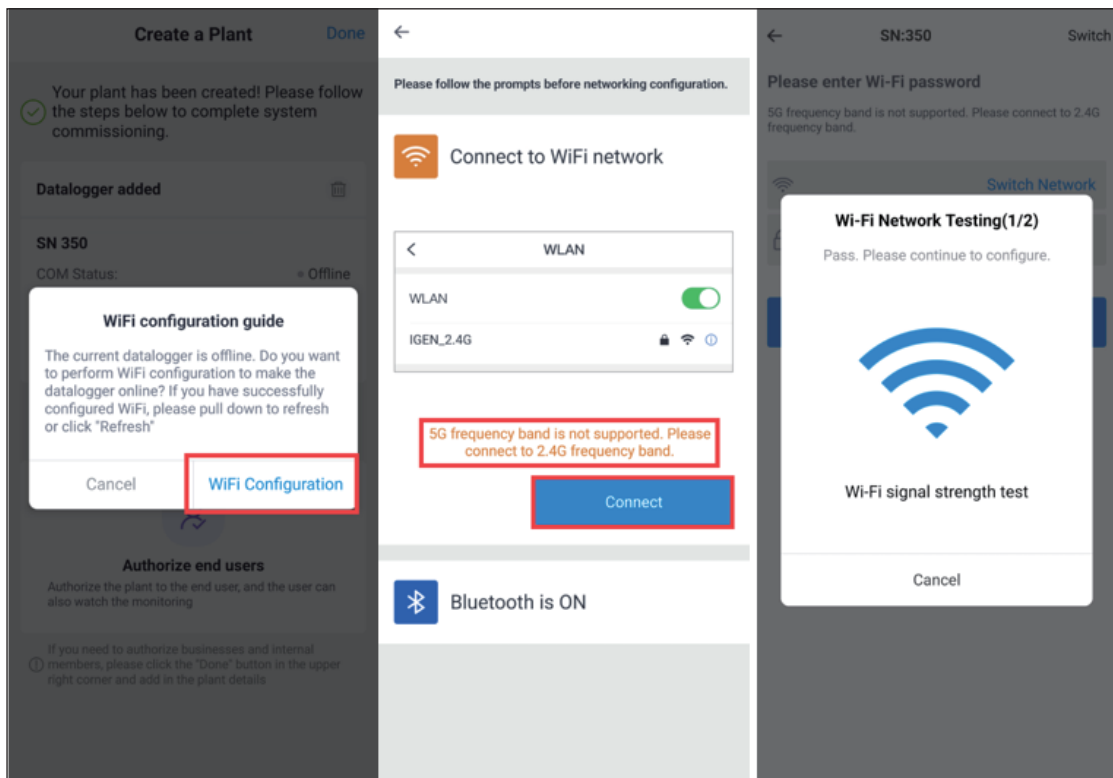
Enter the Dashboard interface of the newly created plant, click the "... " icon in the upper right corner, select "add datalogger", then scan the QR code on the WiFi logger to complete the binding operation.



3.3. WiFi Configuration

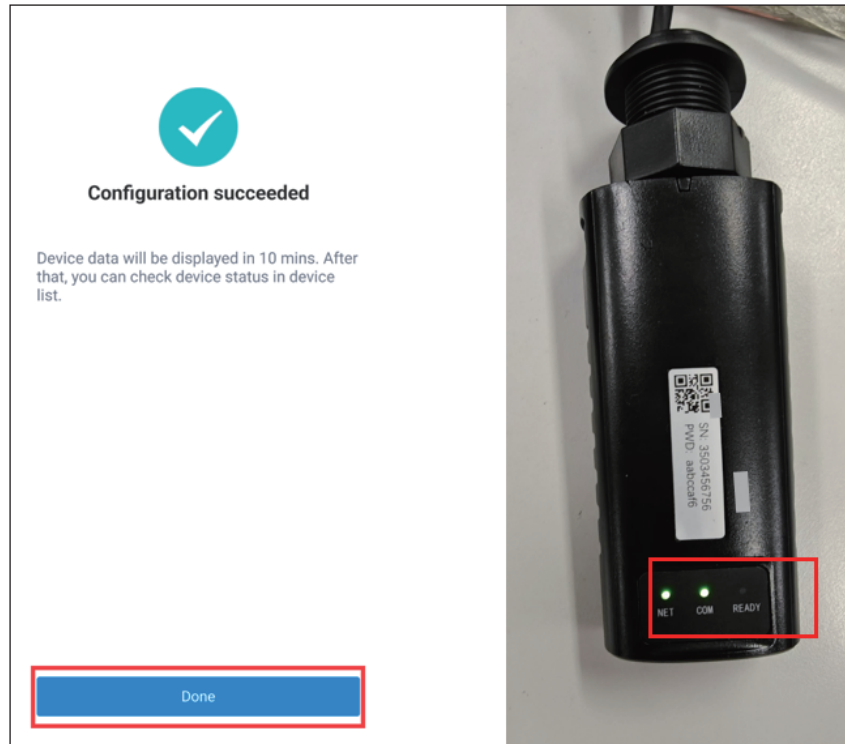
Complete the WiFi connection according to on-screen prompts.

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



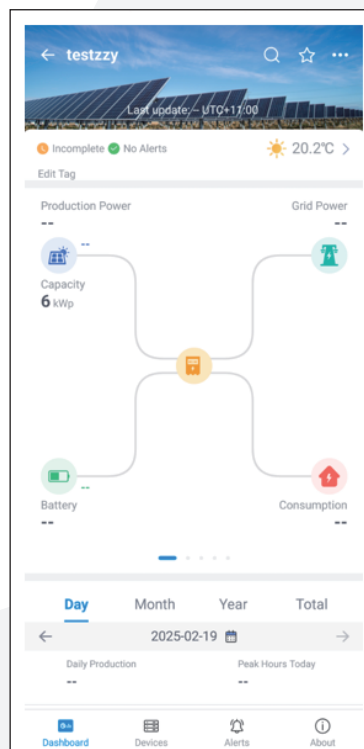
3.4. After WiFi Connection

The NET and COM indicators will stay on.
The READY indicator will flash.



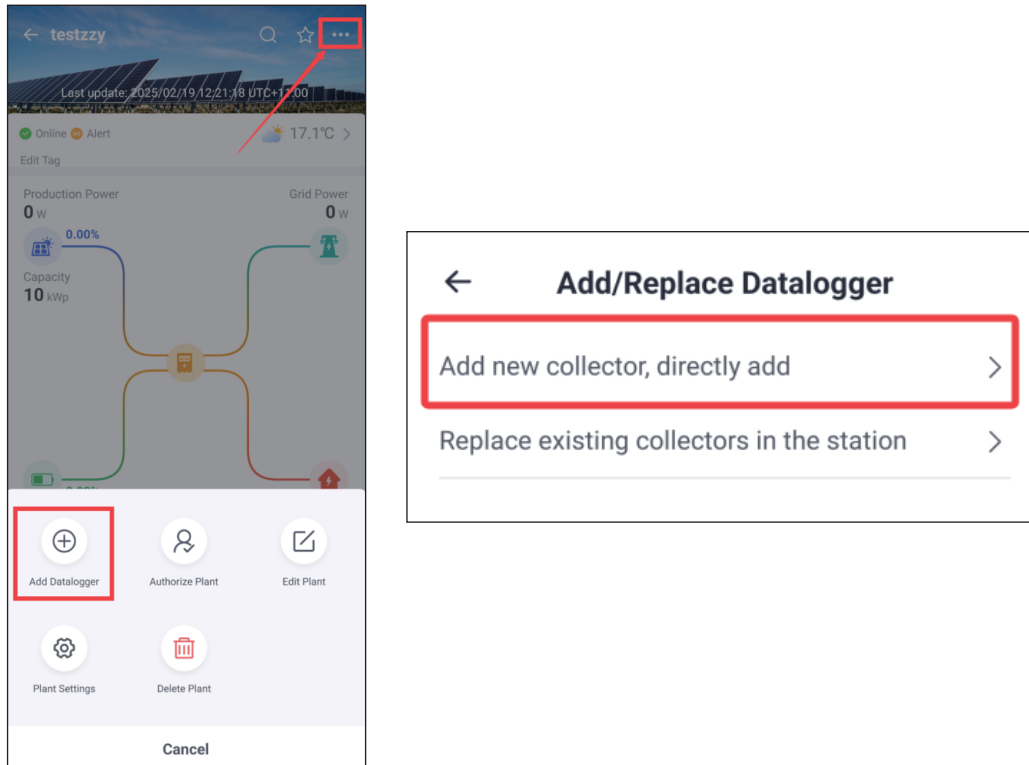
3.5. System Update

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



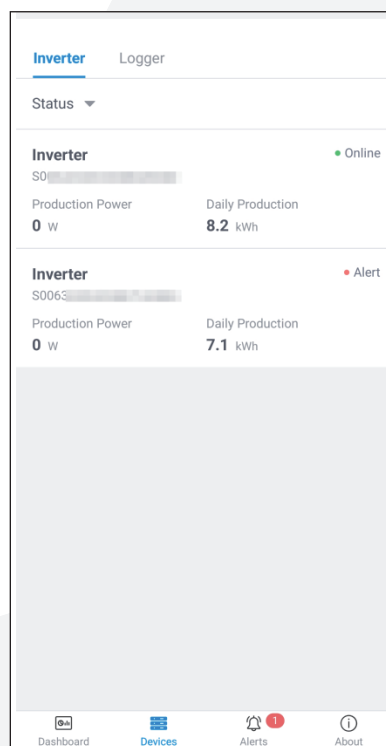
3.6. Add the Second Inverter's WiFi Logger

Click "add datalogger" again, select "add new collector," and add the WiFi logger of the second inverter.



3.7. Confirm Device Addition

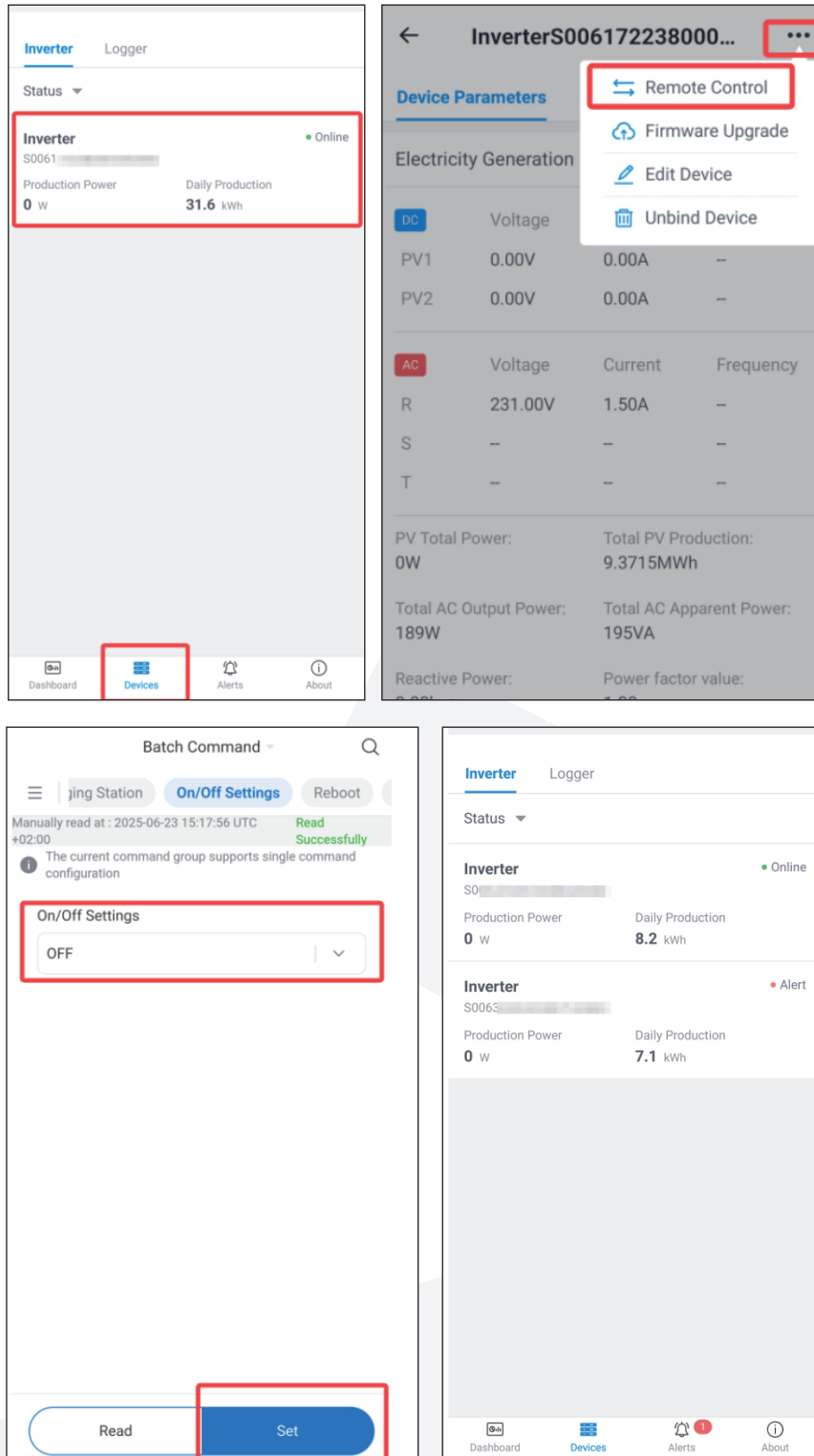
When two inverters appear in the "devices" interface, the addition is complete.



4. App Working Mode Selection and Settings

4.1. Enter Key Off Mode

In the Device interface, click on each of the two inverters, then select "... icon in the upper right corner > remote control". In "batch command > On/off settings," select "OFF" and click "Set" to put both inverters into key off mode.



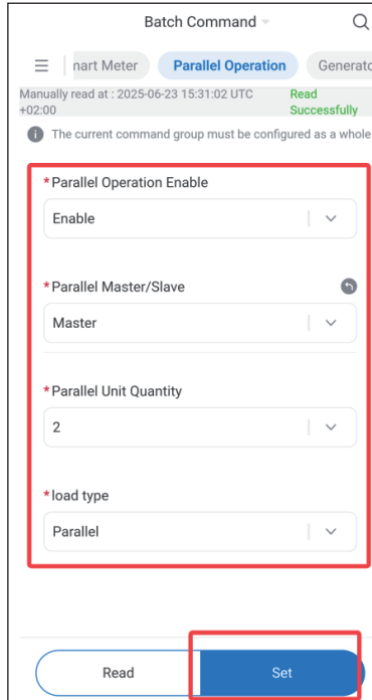
4.2. Configure Master Inverter

The inverter connected to the smart meter is the master inverter. In the Batch Command interface: Enable "parallel operation enable" and set "parallel master/slave" to "Master".

Set "parallel unit quantity" to 2.

If backup port loads are parallel, set "load type" to "parallel"; otherwise, set to "unparallel".

Click "Set" to complete the settings.

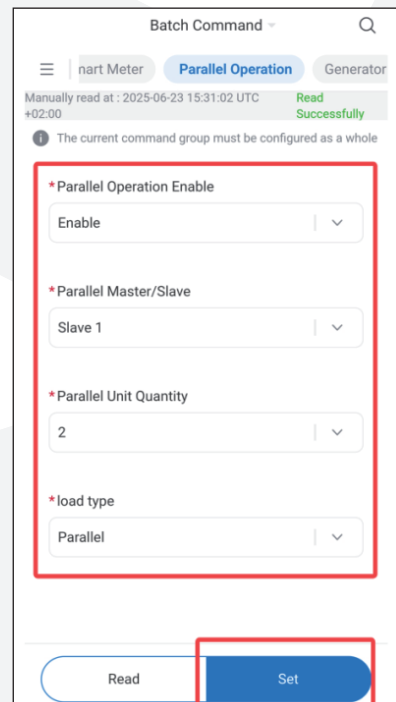


4.3. Configure Slave Inverter

For the inverter not connected to the smart meter (slave inverter):

Set "parallel master/slave" to "Slave 1" in parallel operation.

Click "Set" to complete the settings.

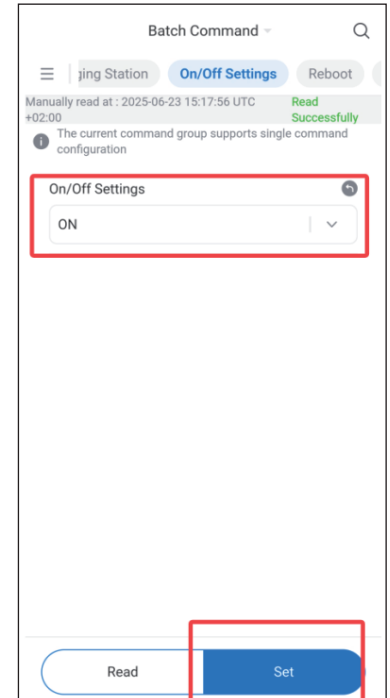


4.4. Connect Communication Cable

Connect the prepared communication cable to the COM ports of both inverters.

4.5. Power On Inverters

In "On/off settings," select "ON" and click "Set" to start the inverters.



4.6. Power On the System

Turn on all circuit breakers to put the system into operation.

5. On-site Inspection After Installation and App Settings

Turn off the DC switch on the left side of the inverter to simulate 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, recheck the wiring or contact us for assistance via the contact information at the end of this document. In the energy flow diagram, PV power supplies electricity to loads and charges the battery, with excess power fed back to the grid.

