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PV Mode Solution

User Manual

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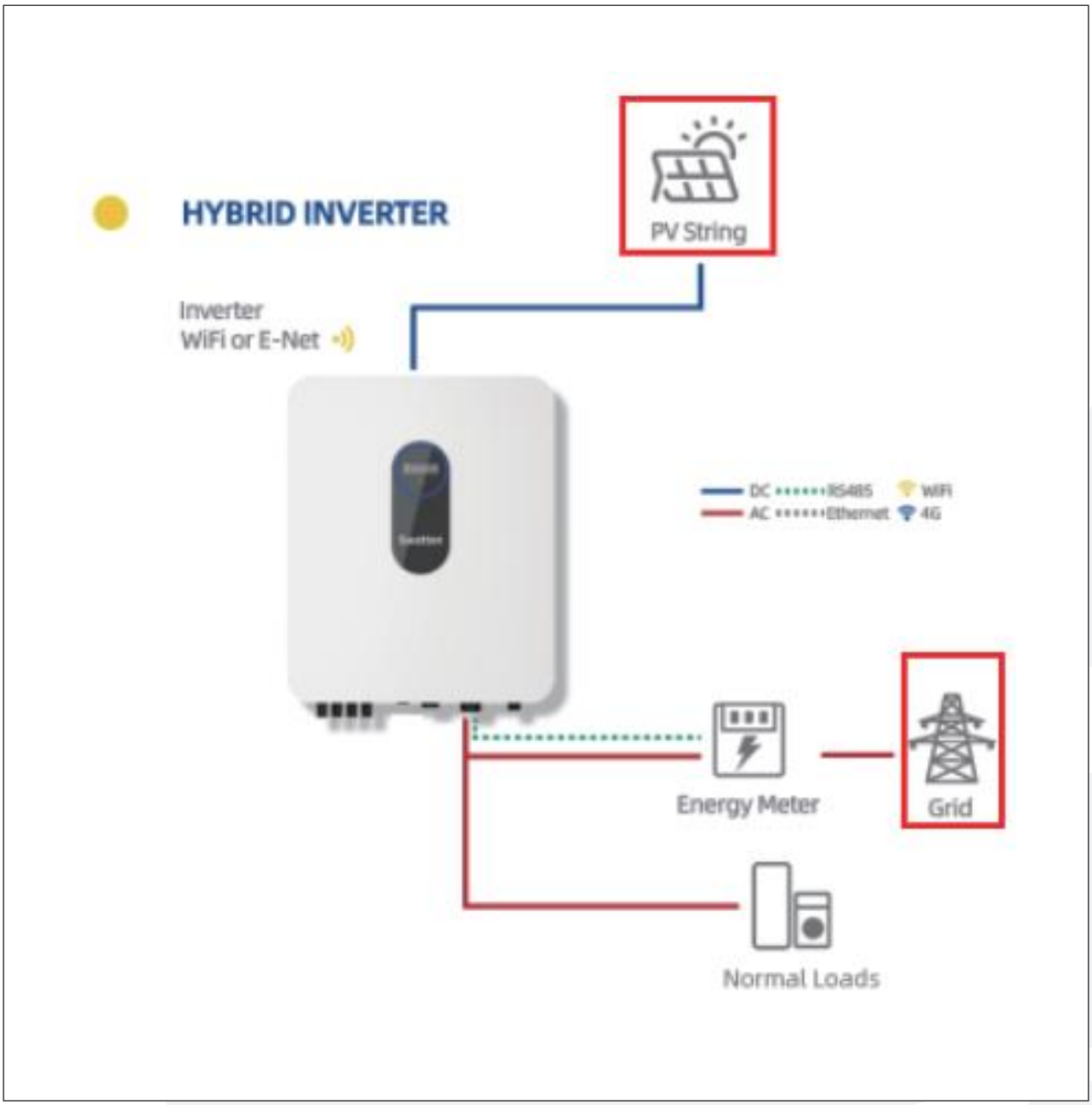
1. Introduction to PV mode(Battery Ready Mode)

In the PV mode, the inverter is connected to the utility grid. In this mode,The PV array converts solar energy into direct current (DC) power, which is then transformed into alternating current (AC) power by the inverter and fed into the grid. This mode is suitable for areas with abundant solar resources and convenient grid access. It can effectively reduce reliance on traditional energy sources and achieve sustainable energy utilization.

Moreover, the system is equipped with a "battery ready" feature, which supports the connection of batteries at any time after the inverter installation is completed. When connecting the battery, simply follow the steps for battery connection in the Quick Start Guide to achieve the connection between the battery and the inverter, without the need for additional complex settings.



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2. Installation Preparation and Precautions

Load and Port Connection

In the battery ready mode, normal loads are connected to the GRID port of the inverter, critical loads are connected to the BACKUP port. Ensure that the grid connection is stable and reliable, and strictly verify that the grid voltage and frequency parameters match the rated parameters of the inverter.

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 Guide for standardized operations.

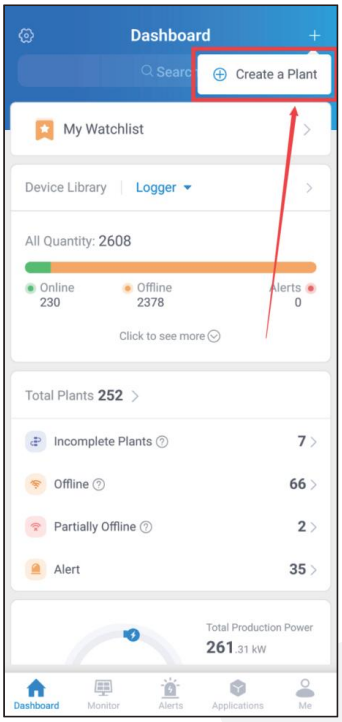
Pre-power-on Inspection and Operations

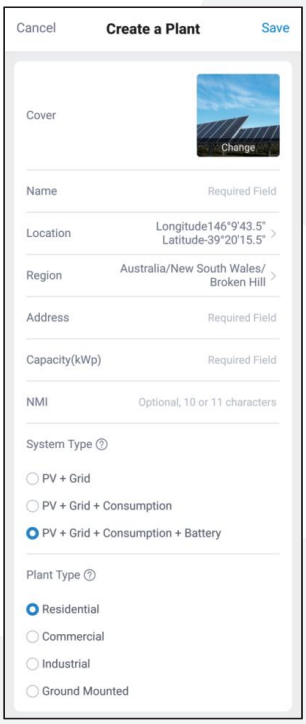
After completing the above installation steps, it is necessary to comprehensively inspect again whether all wiring terminals are firm and whether the circuit connection is correct. After confirming that the wiring is correct and in compliance with safety regulations, you can turn on all circuit breaker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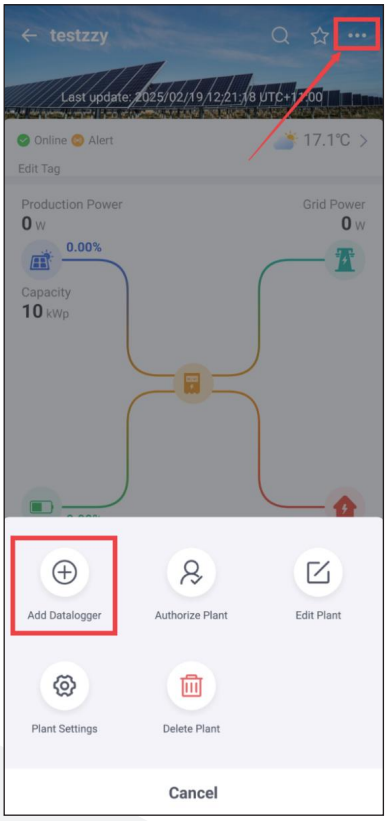
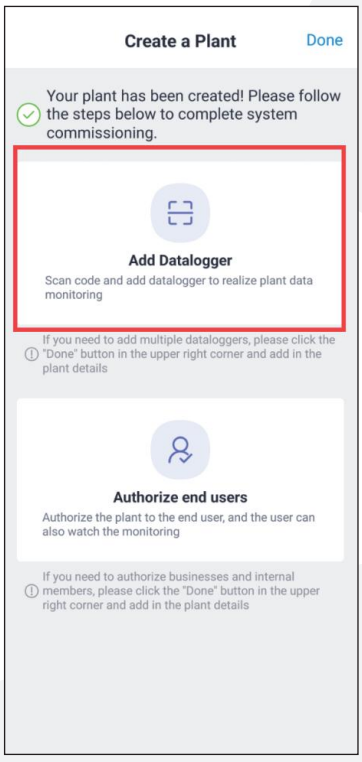
3.2. Add Datalogger

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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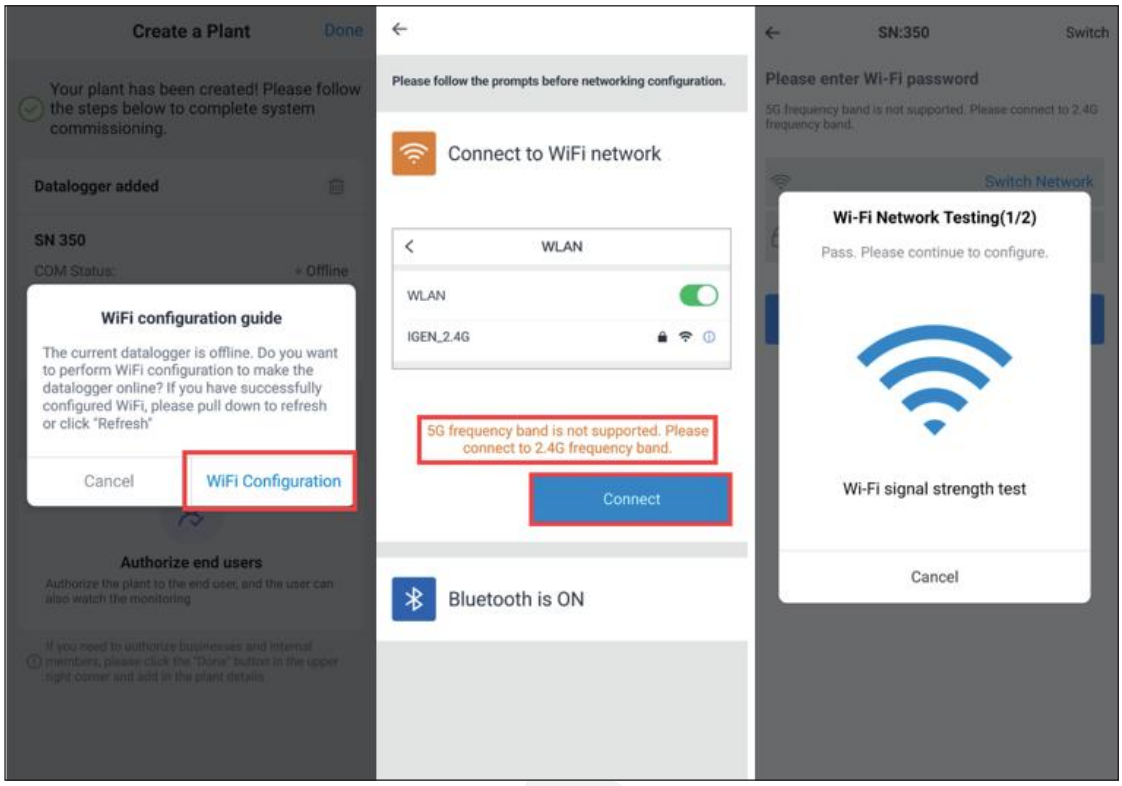
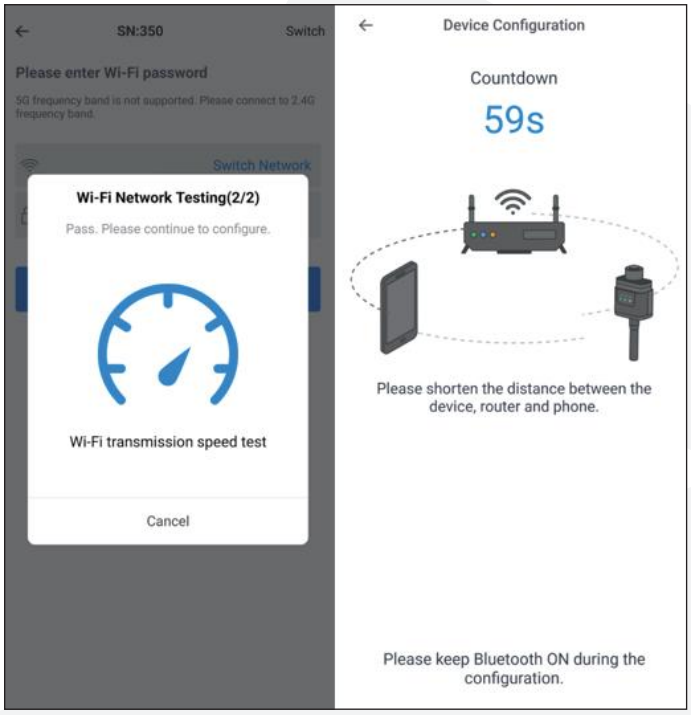
3.3. WiFi Configuration

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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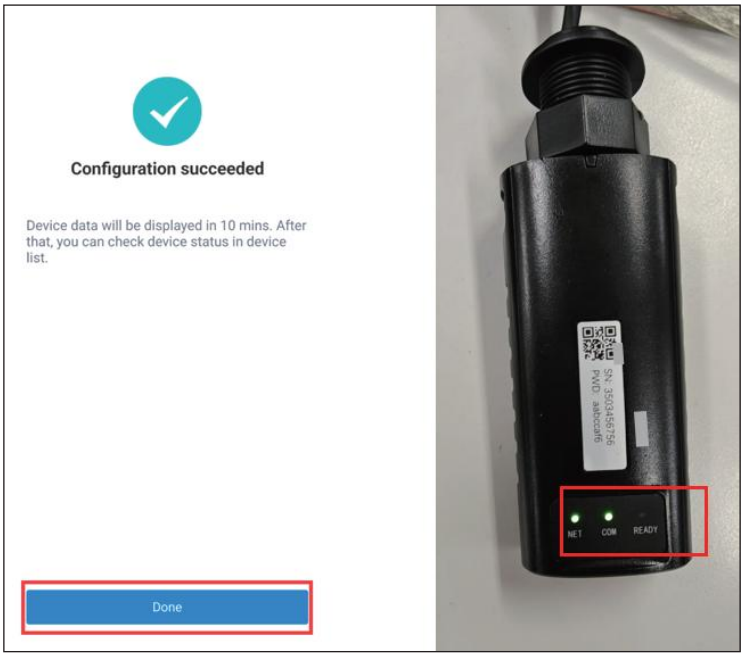
3.4. After WiFi Connection

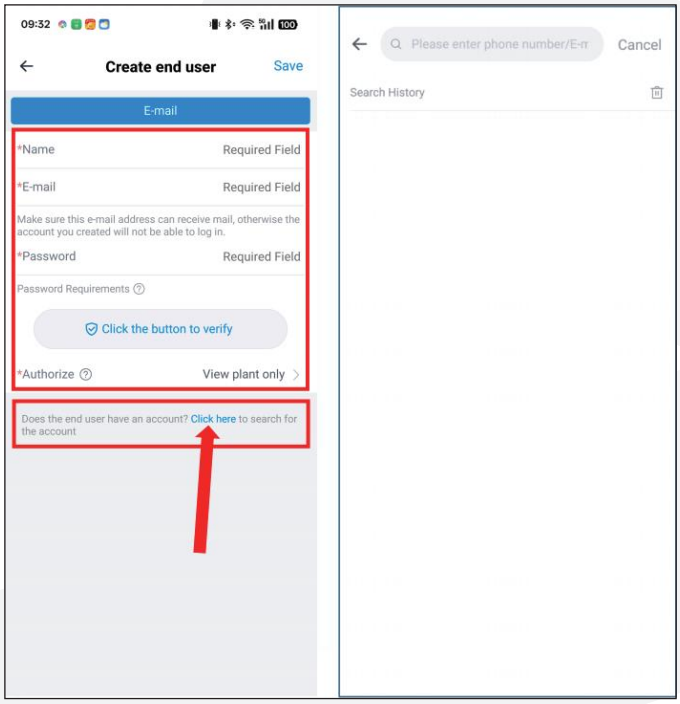
The NET and COM indicators will stay on.
The READY indicator will flash.



3.5. Share the plant to end-users

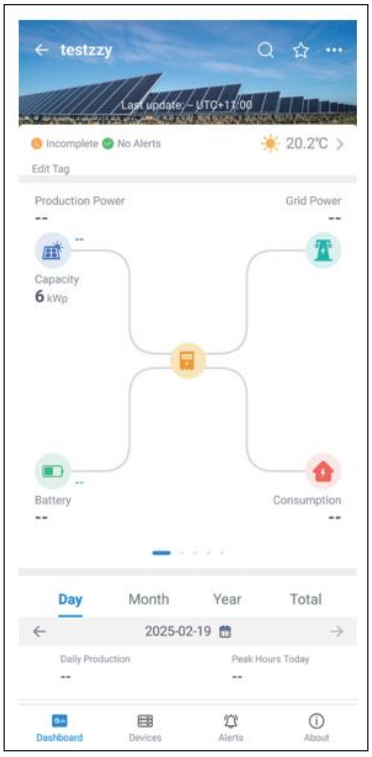
Fill in the information for the end user, and invite the end user to download the Solarman Smart App from the app store.

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.



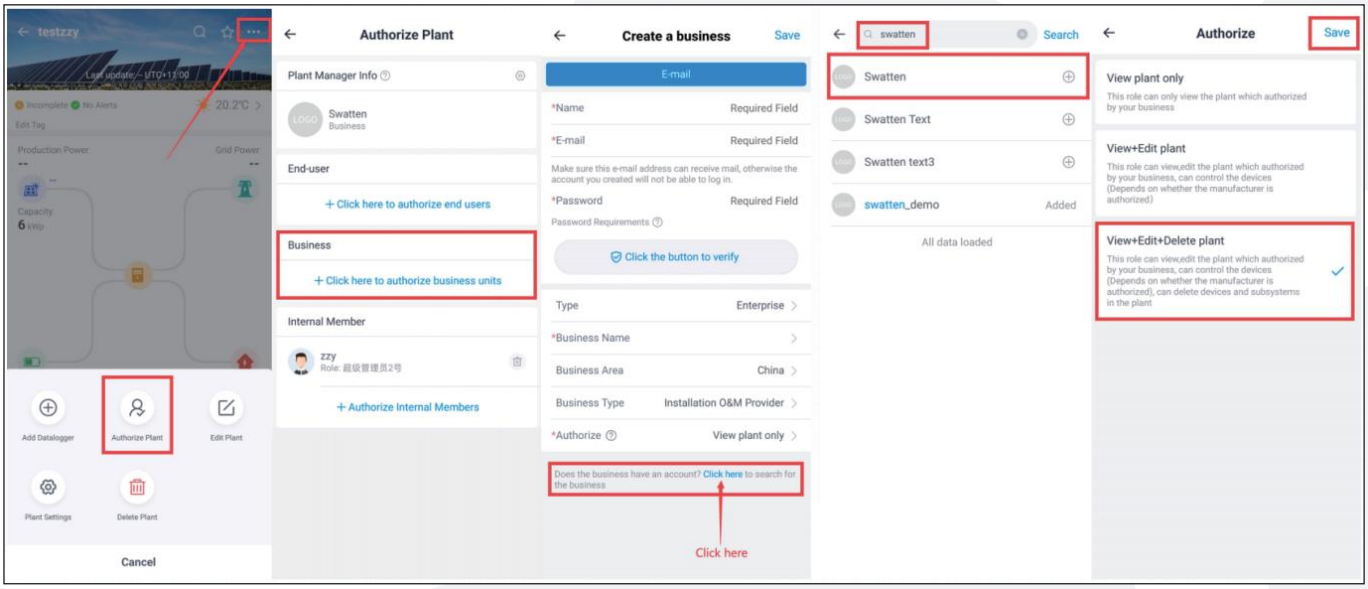
3.6. System Update

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



3.7. Share the plant to Swatten

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



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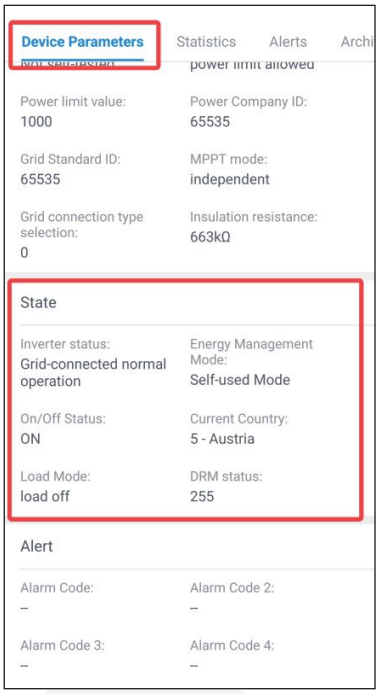
4. App Working Mode Selection and Settings

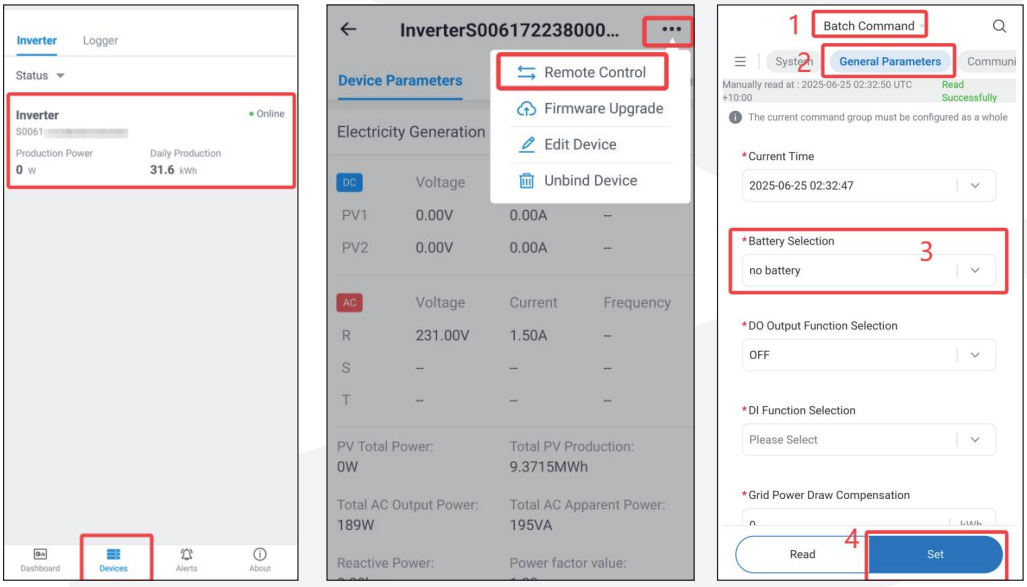
4.1. Operation Mode Confirmation

After installation and power-on, the inverter will automatically detect the operating conditions and directly enter the grid-tied mode. If you need to check the real-time operating status of the inverter, you can enter the “Devices parameters - status” interface to verify each parameter and confirm that the device is operating normally.



4.2. No Battery Mode Configuration

On the Device interface, click on the inverter, then select the “...” icon in the upper right corner - remote control. In the batch command - general parameters - battery selection section, choose “no battery” and click “set” to complete the configuration.



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

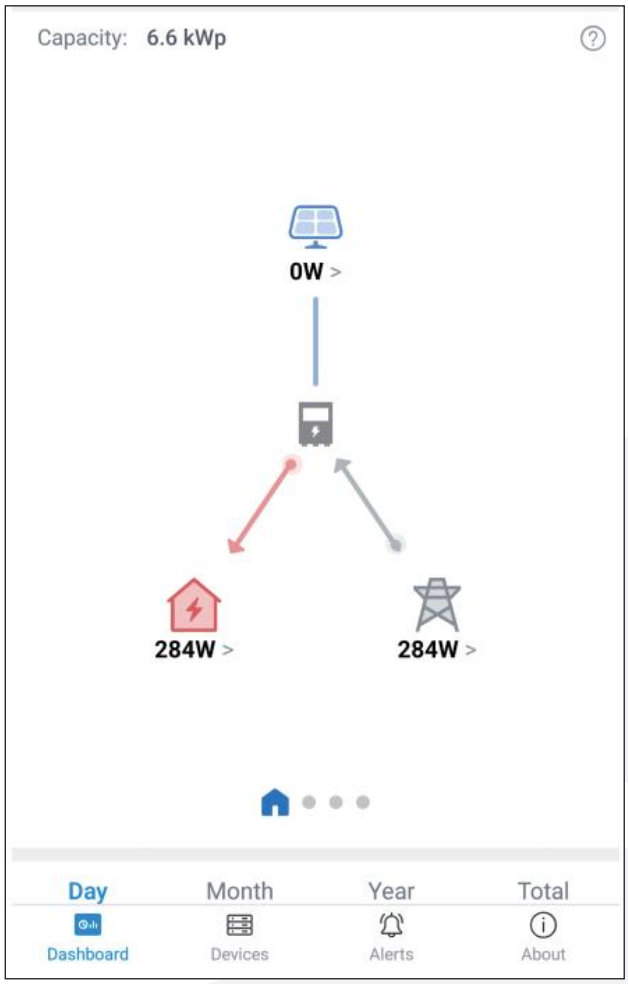
5.1. On-site Verification

If the critical load is connected to the BACKUP port, please turn off the circuit breaker on the Grid side at daytime to simulate the situation of a power outage, and confirm whether the PV can supply power to the critical load normally.

If it 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 consumption, and excess power is fed into the grid.



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