ESYSUNHOME APP Manual

(V-2.0)

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Made in China

CE RoHS

ESY Sunhome Co., Ltd

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Welcome to the ESYSUNHOME App Manual. The ESYSUNHOME App is a dedicated data monitoring platform designed for ESYSUNHOME products. With this app, end users can easily monitor and manage their inverter systems anytime and anywhere. This manual will guide you through key functions such as account registration, device binding, network configuration, and more.

Main features of the app include: real-time viewing of inverter status and power generation data, switching and scheduling of inverter operation modes, and remote control of on/off functions.

User permission: End users of the inverter.

1. Account Registration

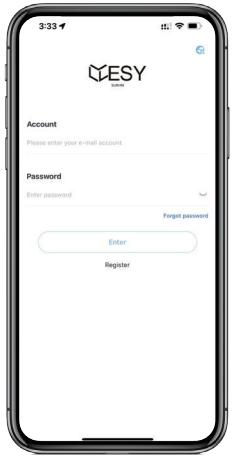
1.1 Download the App

Please search “Esysunhome” and download it from Apple Store or Google Store.

iOS

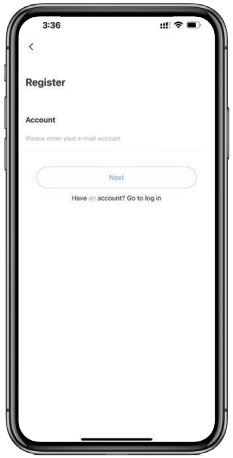
Android

1.2 Registration Page

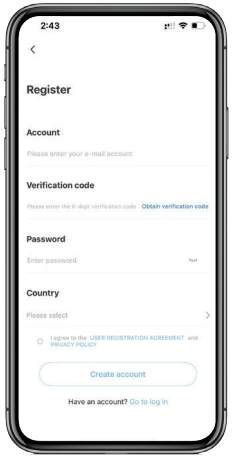


Please tap the **Register** button below to access the registration page.

1.3 Registration Process

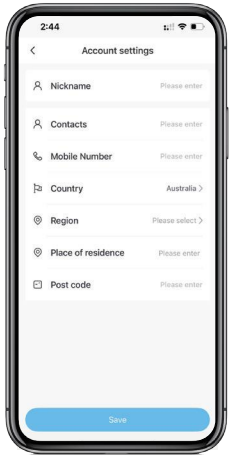


Please register with your email address and tap the **Next** button.

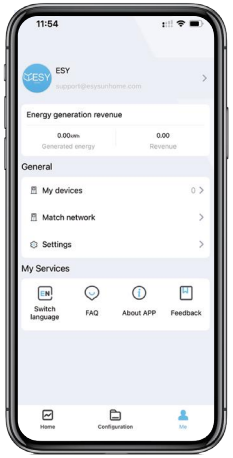


Enter the **Verification Code** *(sent to your email)*, set a password and check the user registration agreement and privacy policy. Then, tap the "Next" button.

Please provide detailed information to help us deliver timely and effective technical support. Select your current country of residence, then tap the **Enter** button to access the app homepage.

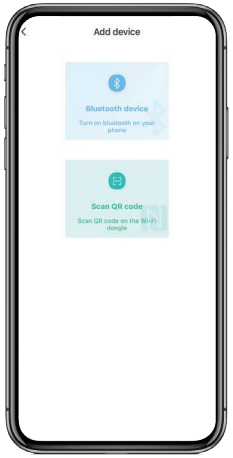


2. Link Device



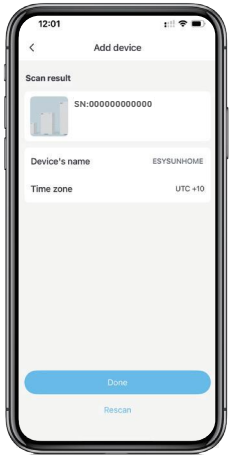
1. Go to My Devices in the app.

2. Tap Add Device to link the system to your account.



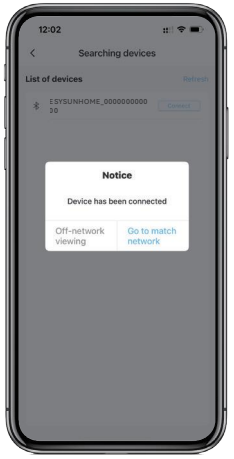
3. Scan the QR Code on the Wi-Fi dongle.

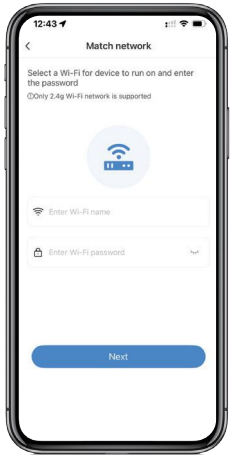
4. Name the device and select the time zone.



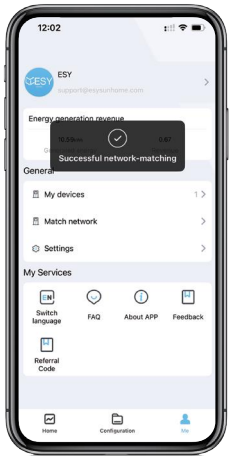
5. Find the Wi-Fi dongle in the List of Devices and tap Connect.

6. Tap Go to Match Network to start the pairing process.

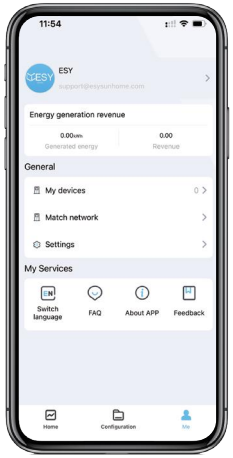




7. Enter your **Wi-Fi** name and password, then tap **Next.**



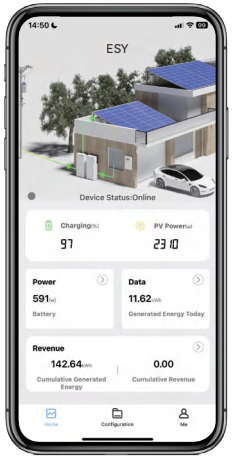
8. Once connected, the app shows a **Successful** pairing message.



3. Match Network

If your device is offline, you can also go to the **Me** page and tap **Match Network** to start the pairing process.

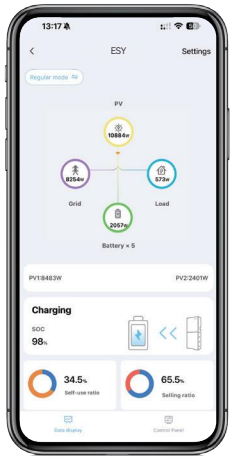
4. Data Monitoring



4.1 3D Scene Graph

After successfully linking the device, you will see a 3D scene diagram on the app homepage.

This diagram displays key system elements, including the grid, load, and PV system. The movement of the green arrows indicates the direction of energy flow, providing a clear view of the real-time system status.



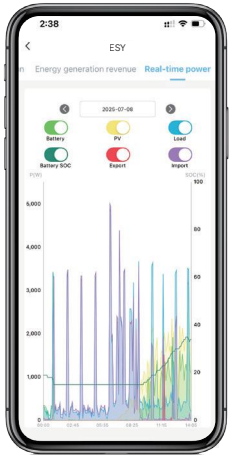
4.2 Energy Flow Diagram

Tap the **3D Scene Diagram** to open the **Energy Flow** interface. It shows real-time power flow and data for the PV system, grid, battery, and load, along with key info such as battery status, self-consumption ratio, and export proportion. *(If a PV inverter is present on-site, its generation is included in PV1 data.)*

5. Data Statistics

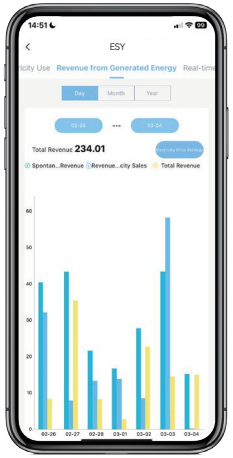
5.1 Real-time Power

Tap **Power** on the home page to enter the real-time power display interface. In the statistical chart, you can view the real-time power of the battery, PV module, load, export, and import, all shown in curve form. You can also view the one-day real-time power curve.



5.2 Electricity Usage Information

Tap **Data** on the home page to enter the electricity consumption data interface. The statistical chart displays bar graphs of daily, monthly, and yearly electricity consumption, load capacity, PV power generation, grid power sold, and purchased electricity. You can view the details by tapping on the respective items.



5.3 Energy Generation Revenue

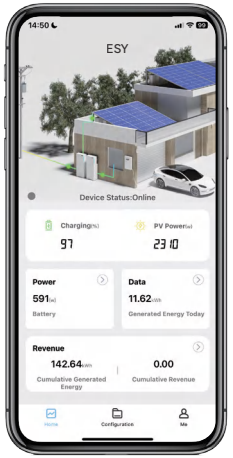
Tap **Revenue** on the home page to enter the revenue display interface. In the statistical chart, you can view the daily, monthly, and yearly data, including the revenue of power generation, the revenue of sold electricity, and average revenue. Tap the bar charts to see the details.

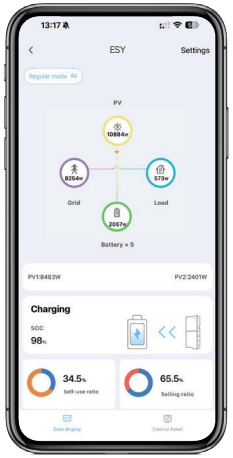
Tap the **Electricity Price Settings** to set the electricity purchase and sales prices for different time periods in a day. If you do not change settings, the price will be 1 by default.

6. Mode Switch

Open the client APP, log in and enter the home page. Tap the 3D scene graph to enter the energy flow diagram page. The current working mode will be shown in the **Top-left** corner. You can tap it to enter the **Mode List** and select an appropriate mode.

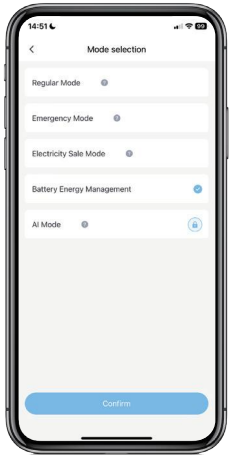
1. Enter the **Home Page** in Esysunhome APP.



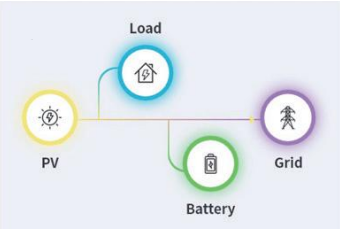


2. Tap the **3D Scene Diagram** to view the **Energy Flow** interface.

3. The current working mode is shown in the **Top-left** corner; tap it to open the **Mode List** and choose the desired mode.

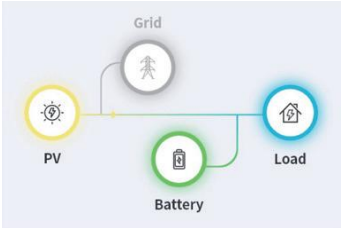


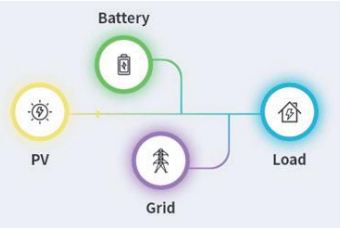
6.1 Regular mode



1. The solar energy is primarily used for the backup load and household load with excess energy being sold to the grid after charging the battery.

2. When the solar energy is insufficient to meet the load demand, the battery power is used first for supplementation.

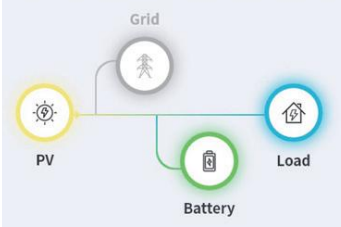


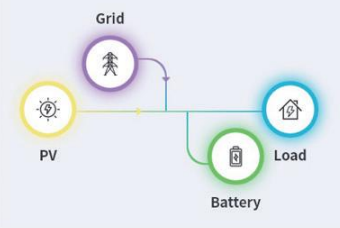


3. If both the solar energy and battery power are insufficient to meet the load demand, the grid is used for supplementation.

6.2 Emergency Mode

1. Prioritize using solar energy to charge the battery.

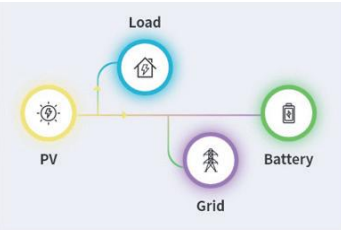


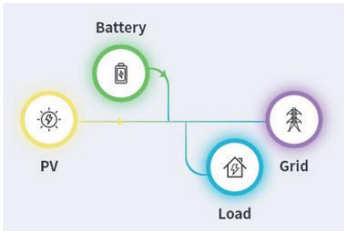


2. If there is insufficient solar power, charge the battery from the grid. This is especially useful when needing to fully charge the battery before an imminent emergency. It is recommended to activate this mode when electricity prices are low.

6.3 Electricity sale mode

1. The system prioritizes powering electrical loads, and will output maximum power to the grid for salet.

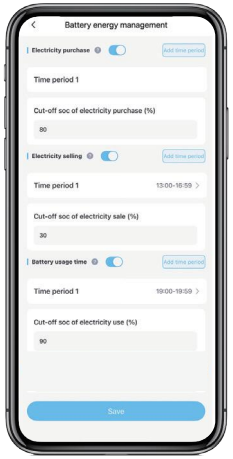




2. If there is insufficient solar power generation, the battery will supplement power output to the grid for sale.

6.4 Battery energy management

In the Battery Management Mode, three functions are available for selection.



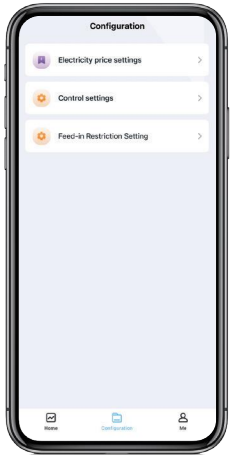
Electricity Purchase: During the set period, the battery will charge using PV power first. If PV is insufficient, grid power will be used. The battery will not discharge during this time.

Electricity Selling: During the set period, PV power is prioritized for export. If PV is insufficient, the battery will supply power to the grid.

Battery Usage: During the set period, the battery supplies power locally but does not export to the grid. Outside this period, it cannot be used.

Note: The set time periods cannot overlap, otherwise the save will not be successful.

7. System Configuration



Tap **Configuration** to access system settings. This page lets you adjust key parameters, including:

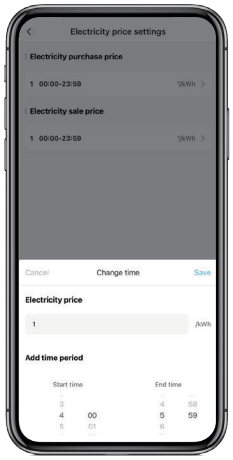
Electricity Price Settings: Set your import/export rates.

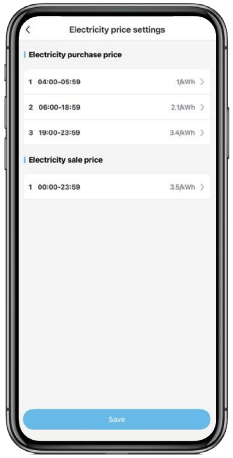
Control Settings: Control system on/off status and set the minimum discharge SOC limit.

Feed-in Restriction: Limit export power based on needs.

7.1 Electricity Price Settings

In the **Electricity Price Settings** page, you can set different import and export rates by selecting specific time periods.

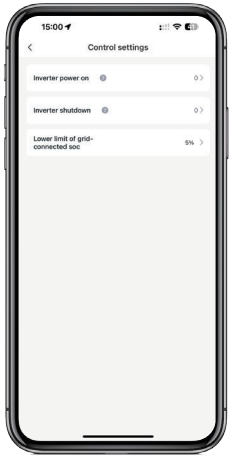


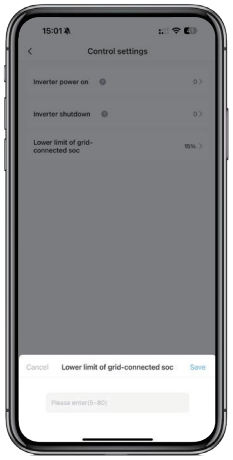


Once configured, the set time slots and corresponding prices will be displayed clearly for review and confirmation.

7.2 Control Settings

Tap **Control Settings** to access system-level controls.
On this page, you can turn the system on or off and set the minimum discharge SOC limit.



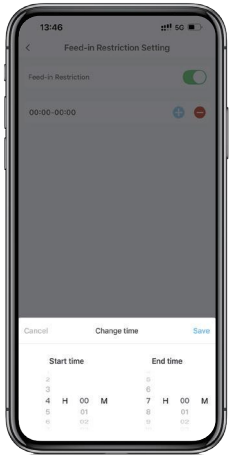


Set the **Minimum Discharge SOC Limit** to control the lowest battery charge level. This helps protect battery lifespan and ensures enough energy is reserved for backup.

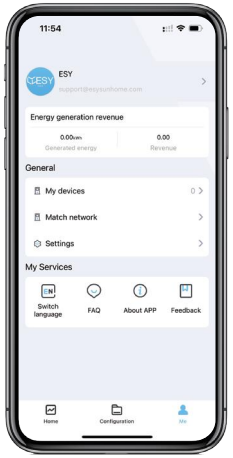
7.3 Feed-in Restriction

Enable the **Restriction** toggle to prevent power feed-in during specified time periods. This helps customers avoid exporting electricity due to reasons such as negative prices or other preferences.

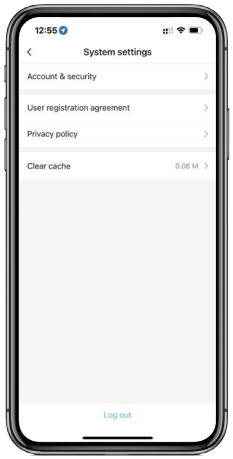
This screen displays the active feed-in restriction schedule, showing the time slots when exporting to the grid is disabled.



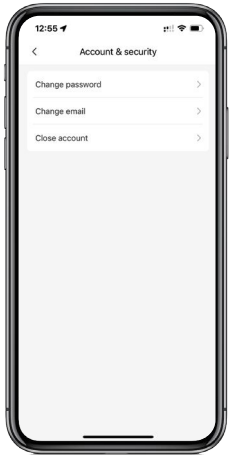
8. Account Settings & Security



Go to **Settings** from the **Me** page.



Tap **Account & Security** to access account options.



Follow the prompts to **Change Password, Change Email,** or **Close Account.**

Go to **My devices** from the **Me** page. Please find the Power Quality Response modes under the **Device details.**