RUNHOOD

APP User Guide

service@runhoodpower.com
www.runhoodpower.com

1 Runhood Power App Overview

An App for residential energy storage devices supports remote control of the device and view of the device status information.

2 Runhood Power App Scope of Application

Residential energy storage devices.

2.1 Software Acquisition APP Store

Download the Runhood Power App
The Runhood App is available in both the Apple App Store for iOS as well as the Google Play Store for Android devices. And you can find the Runhood App by searching for “Runhood” .

2.2 Download with a QR Code

1.Runhood Power for iOS
You can find the Runhood App by searching for “Runhood” in the Apple App Store or scan the QR Code below to download and install the app to any iOS device.

IOS

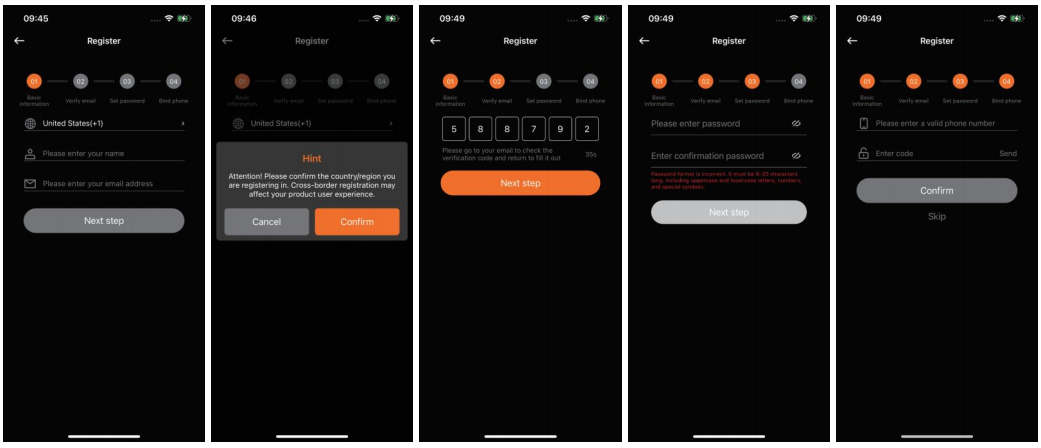
2.Runhood Power for Android
You can find the Runhood App by searching for “Runhood” in the Google Play Store or scan the QR Code below to download and install the app to any Android device.

Android

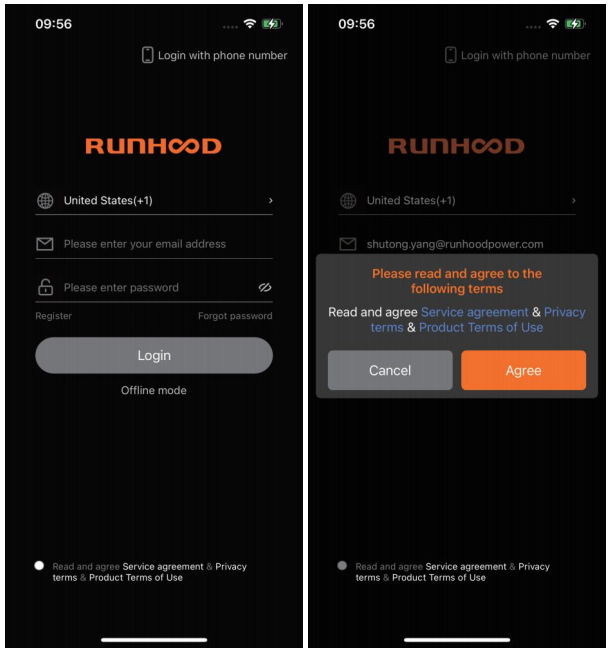
3 Register and Login for Syncing Device

3.1 Register and Login

Operation steps: Download APP>Register>Enter your email address>Authentication code> Enter your password > Enter a valid phone number > Confirm/Skip to Login.



Operation steps: Go to Login>Enter your email address/Mobile phone number>Enter your password>Login.



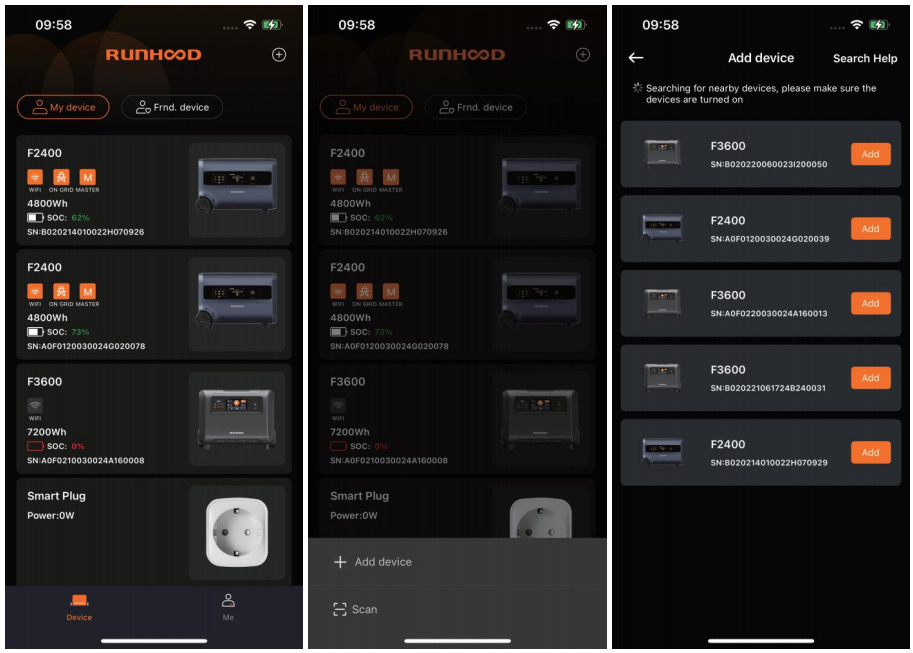
3.2 Connection

Enable Bluetooth and then turn on the Power button. When the device is in the power-on state, scan the Bluetooth device and connect it.

Note: WiFi indicates the online status of the device. When the online WiFi icon of the device lights up and displays, different WiFi icons will be displayed according to different signal strengths.

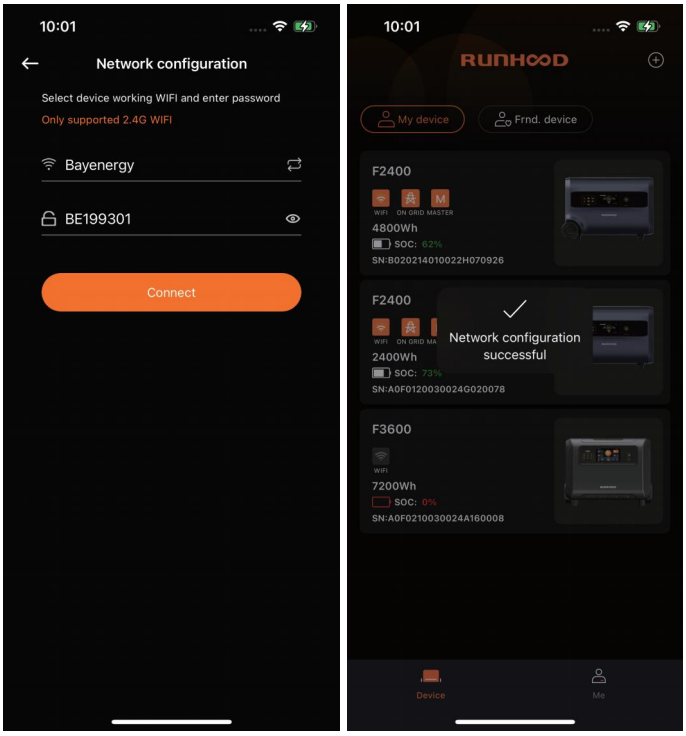
Indicates the grid connection status. In grid connection mode, this icon lights up and displays.

M / S When using multiple host devices at the same time, you need to set one of them as the master device and the rest as slave devices. There is no need to adjust the position of the master device's DIP switch (factory default value). The icon is displayed as M , and the slave device needs to dial If the first digit of the code is dialed to 0 position, the icon will be displayed as S . The device's factory DIP switch position is 100000. This function is only available to specific invited users.



3.3 Network Configuration

After the device is successfully connected, you need to set up the distribution network by selecting the corresponding WIFI and then entering the WIFI password.



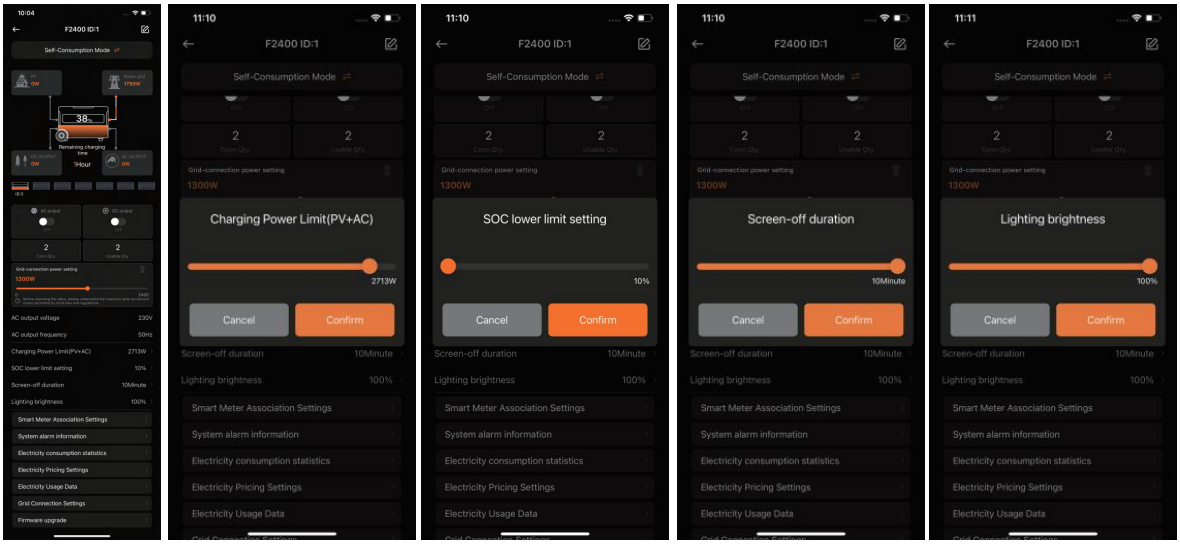
4 Device Homepage

Ensure that the device has been successfully added. After clicking on the added device, you will enter the device details management page.

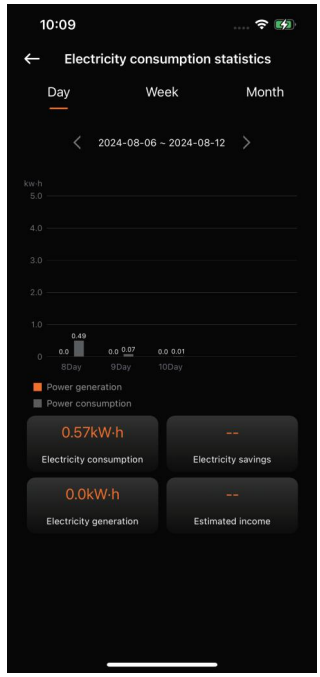
My Device and Device Details

4.1.Usage Scenarios for Mobile Power Regular Mode

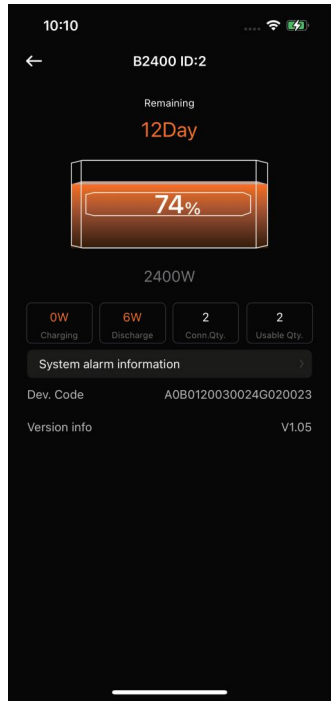
Operation steps: Click Device > My Device > Host Device in Portable Energy Storage Power Supply Scenario, to view the usage details of the host device and customize the standby duration, screen-off duration, and lighting brightness as shown below.



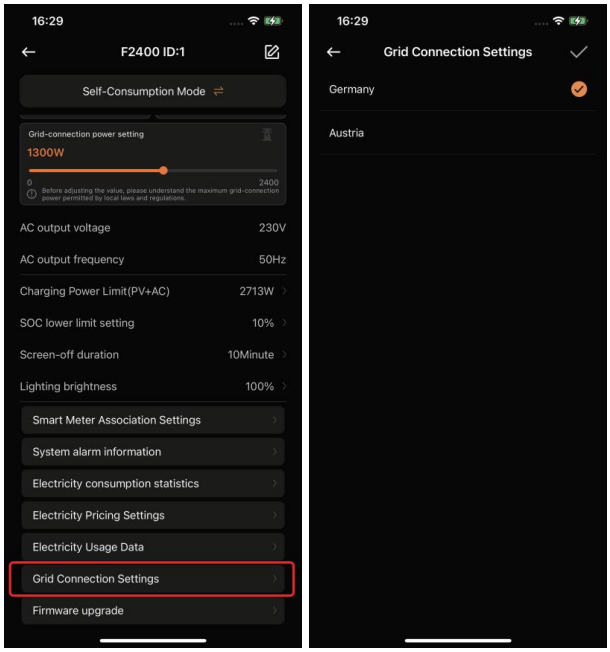
Operation steps: Click Device>My Device>Host Device>Power Consumption Stats. You can view power consumption over daily, monthly, yearly, or customized time periods. The app automatically displays your estimated savings by calculating total power consumption and generation against real-time electricity tariffs.
Note: Since the estimated electricity savings and earnings herein are estimated reference values, it shall be subject to local real-time data.



Operation steps: Click Device>My Device>Battery Pack to view real time charging and discharging statistics for the battery pack.



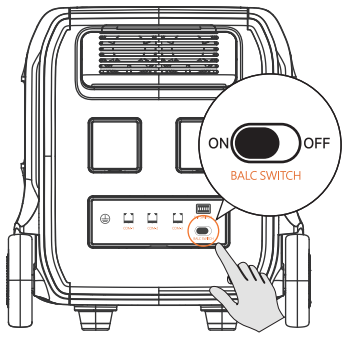
Operation steps: Click Device>Grid Connection Settings . You can select the corresponding country or region based on the local grid connection regulations.



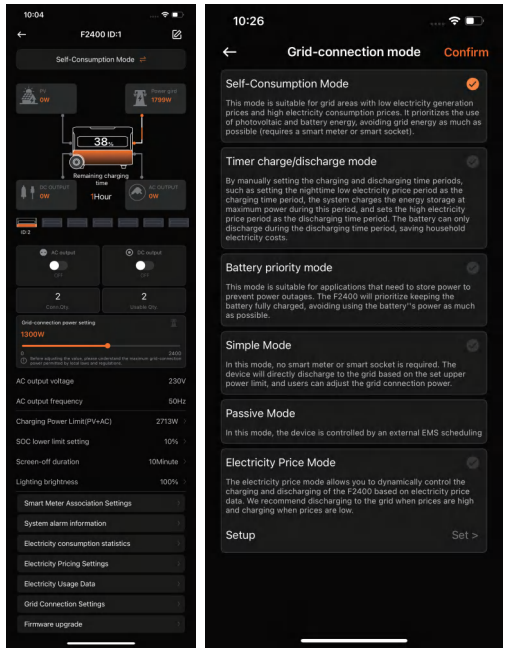
4.2.On-grid Function

The F2400 comes with a 2400W AC grid-connection bidirectional inverter. When using the grid-connection mode, securely connect the AC on-grid output port of the F2400 to the power grid, and turn on the grid-connection mode switch. The total power capacity of the F2400 can be extended to a maximum of 8*2.4KWh through parallel operation. The maximum grid connected output power is 2400W, with a standard configuration of 800W. The F2400 can control grid-connection power output with a smart plug.

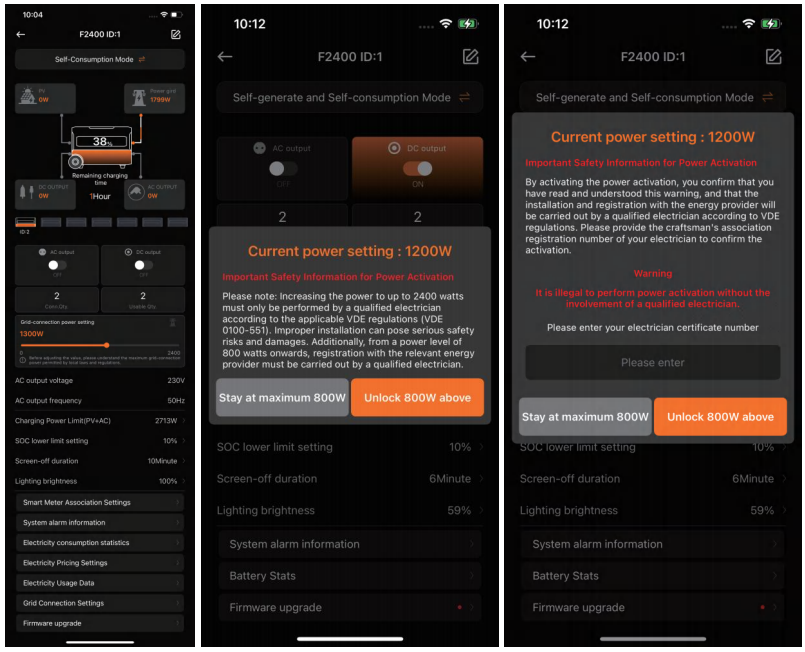
The device is in a powered on state, and turn on the grid-connection mode switch of the F2400 device to ensure that the device is in grid-connected state.



Enter the balcony photovoltaic grid-connected management mode and switch the mode on the device details page. When you click the Mode Switch, it will jump to the Mode Select page. After you select the mode as demanded, it will take effect immediately.



Users can adjust the power by themselves within the scope permitted by laws and regulations. When it exceeds a certain limit, users will not be able to adjust the power by themselves. A professional electrician is required to upload a valid electrician certificate number. The power can be adjusted to 2400W only after it is reviewed and approved.



1) Self-consumption Mode

The system defaults to Self-generate and Self-consumption Mode. When there is no smart plug configured, the self use mode defaults to 800W grid connected output. If a smart plug is configured, the grid connected power can be adjusted according to the load power of the smart plug.

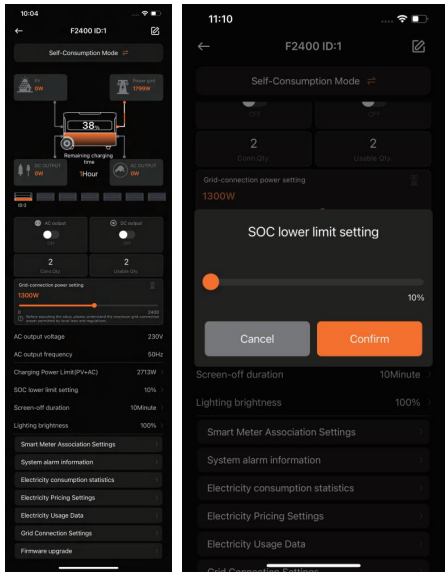
In grid-connected mode, the working mode of F2400 is as follows:

This mode is suitable for regions with low electricity generation costs and high electricity prices, prioritizing the use of solar and battery energy, and minimizing the use of grid energy as much as possible.

Users can customize the SOC minimum limit, the default minimum limit is

10%-50%

Operation steps: Click Device>My Device> Enter Power Grid-connection Mode > Click Mode Switch > Host Device in Self-consumption Mode to view the usage details of device and customize the grid-connection power as shown below.

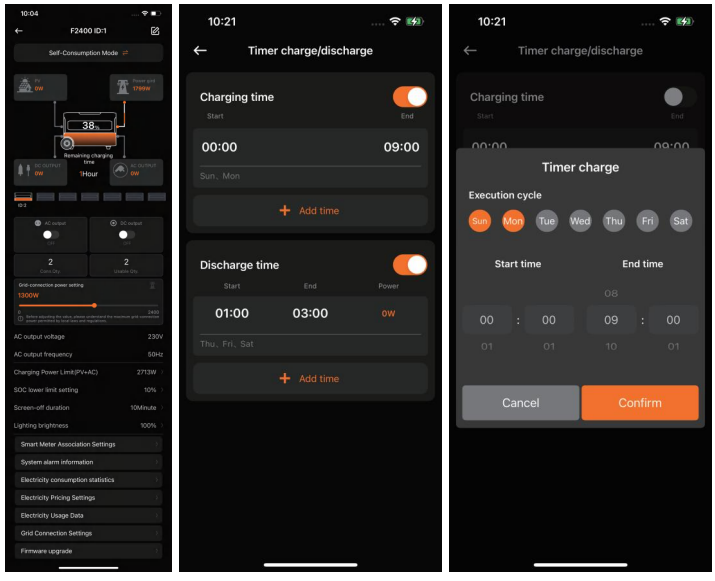


2) Timer Charge/Discharge Mode

By manually setting the charging and discharging time periods, such as setting the nighttime low electricity price period as the charging time period, the system charges the energy storage at maximum power during this period, and sets the high electricity price period as the discharging time period. The battery can only discharge during the discharging time period, saving household electricity costs.Users can customize the power value during the discharge time period.

Note: The Timer Charge and Discharge function is only available in in Time Mode but can be disabled in other modes.PV charging is not restricted by scheduled charging and discharging time periods.

Operation steps: Click Device>My Device> Enter Power Grid-connection Mode > Click Mode Switch > Switch the Host Device in Timer Mode and then you can view the usage details of the host as shown below.

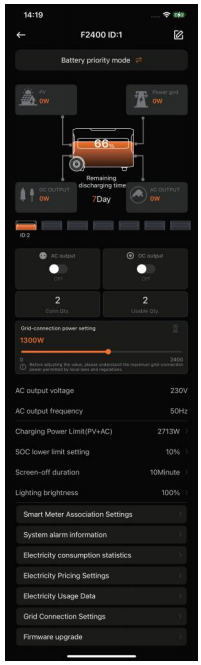


3) Battery Priority Mode

This mode is suitable for applications that need to store power to prevent power outages. The F2400 will prioritize keeping the battery fully charged, avoiding using the battery's power as much as possible.

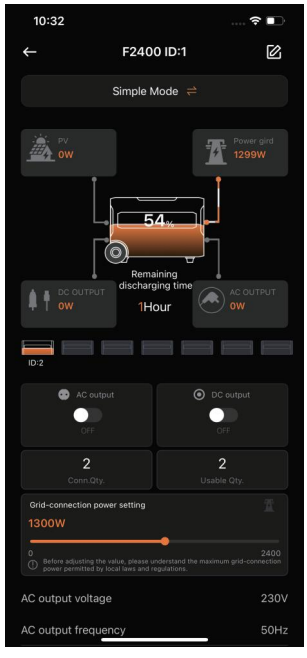
If the SOC is below 100% at first, the F2400 will charge the battery until it is full. Then keep the battery SOC above 95

Operation steps : Click Device>My Device> Enter Power Grid-connection Mode > Click Mode Switch > Switch the Host Device in Battery Priority Mode and then you can view the usage details of the host as shown below.



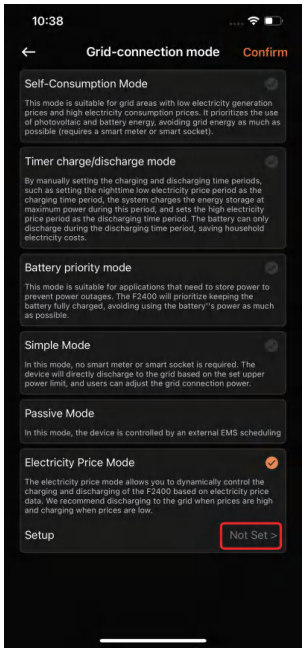
4)Simple Mode

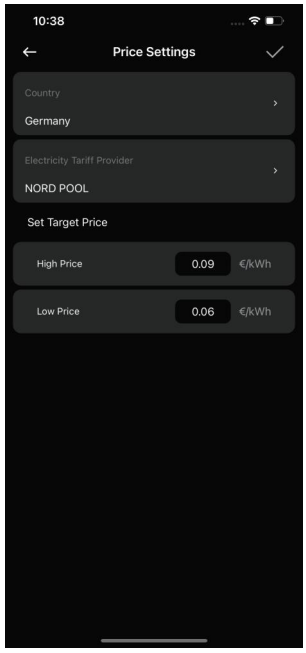
In this mode, no smart meter or smart plug is required. The device will directly discharge to the grid based on the set upper power limit, and users can adjust the grid connection power.

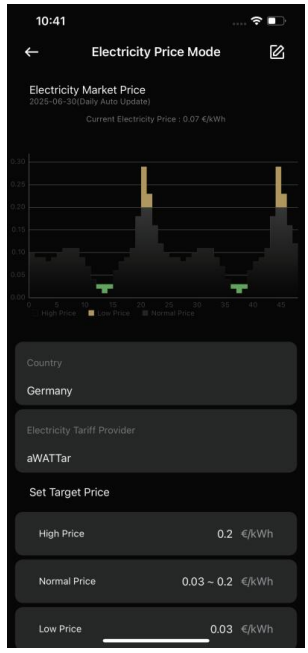


5) Passive Mode
In this mode, the device is controlled by an external EMS scheduling

6)Electricity Price Mode
The electricity price mode allows you to dynamically control the charging and discharging of the F2400 based on electricity price data. We recommend discharging to the grid when prices are high and charging when prices are low.



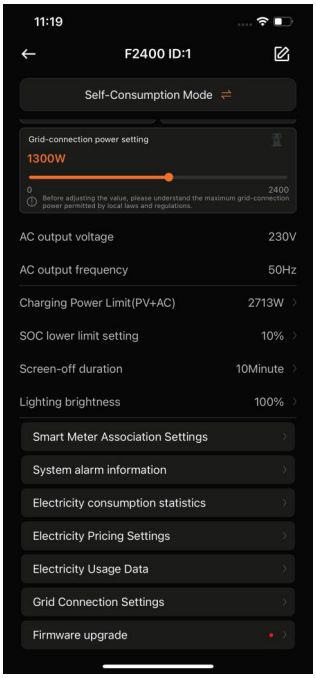


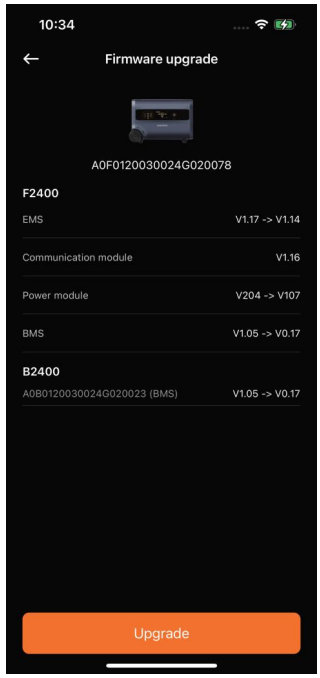


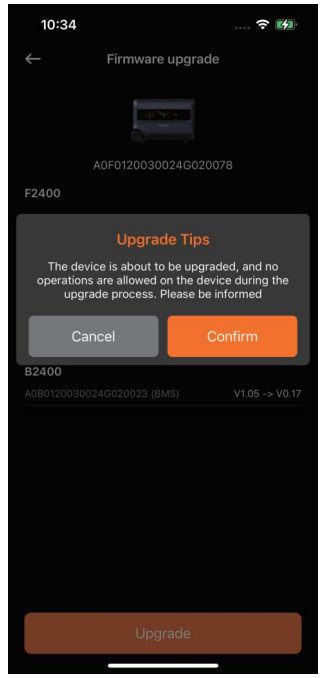
4.3.ESS Mode
Ensure that the device is connected to the hybrid inverter and maintains normal communication, then it will default to the ESS mode.
Operation steps : Click Device>My Device> Enter Host Device Details in ESS Scenario as shown below.

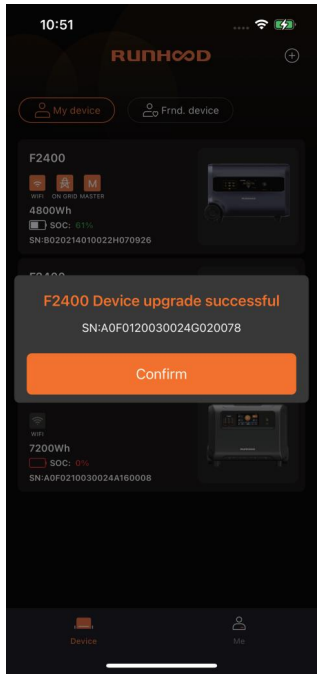
5 Firmware Update

Make sure all your devices are configured for Wi-Fi and have a stable network connection.
If there is a major update to the firmware of the F2400 device, there will be a corresponding upgrade prompt on the App page. (There will be a small red dot to prompt the upgrade) When there is no new version, it will show that the current version is the latest one.
Click the upgrade button and click "Confirm" in the pop-up dialog box to enter the upgrade state. After the device is successfully upgraded, the system will pop up a prompt that the upgrade is successful.
If no update is required, you can skip this step.
Note: The update may take a few minutes. Please be patient. If the update fails, check that your devices are enabled and connected to Wi-Fi.
Operation steps : Click Device > My Device > Host Device > Upgrade to upgrade the device> Confirm.

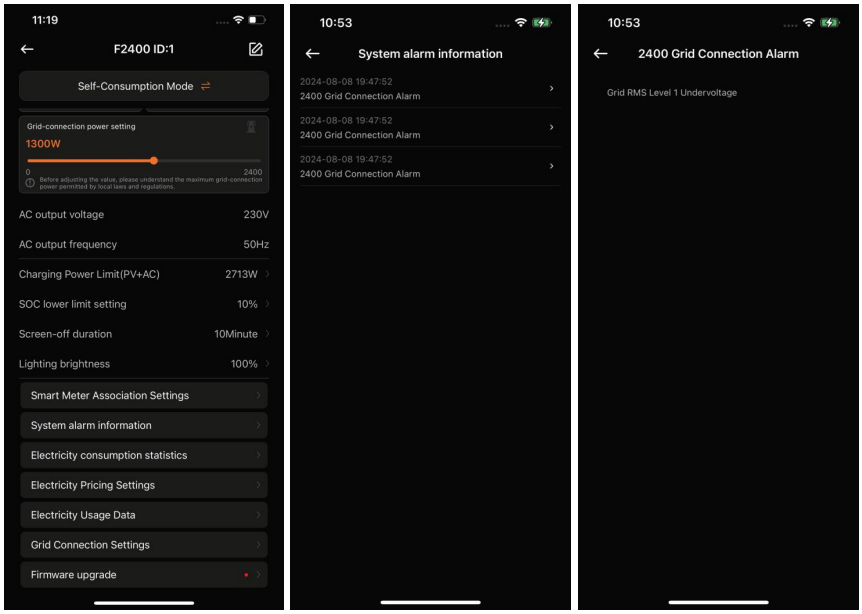






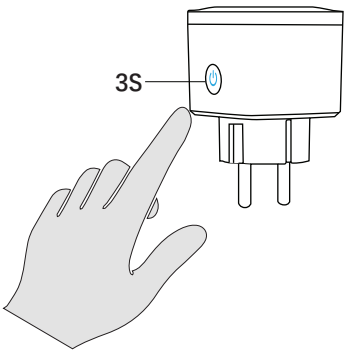


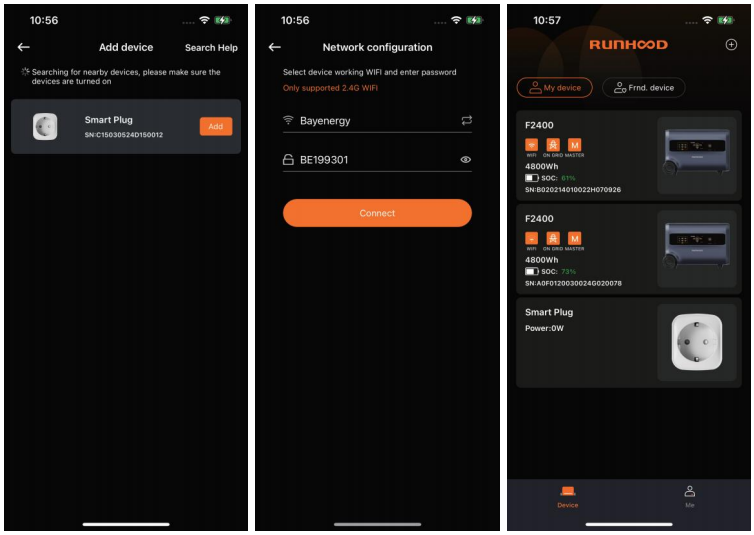
If there are any issues with the device, an alarm message will be visible on screen. Click the prompt to view a detailed error message. Click the prompt content and then you can view the detailed error message.
Operation steps : Click Device > My Device > Host Device > Alarm Message.



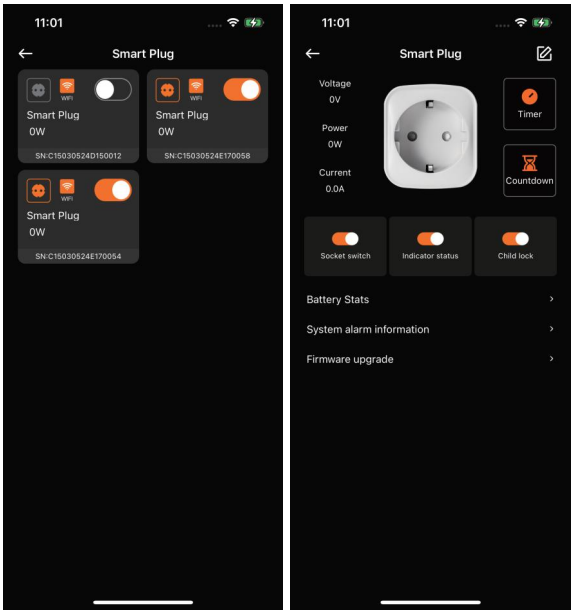
6 Add Runhood Smart Plug (optional)

1.Turn on your phone's Bluetooth and connect your phone to Wi-Fi.
2.Long press the power button on the Smart Plug for 3 seconds until the indicator light keeps flashing to enter the network distribution state.
3.Launch Runhood App, click the "Add" button on the homepage, and search for Smart Plug devices.
4.Click the "Add" button to enter the network configuration page, scan to the Wi-Fi Link, and enter your Wi-Fi password.
5.Click the connect button and wait for the device to be successfully configured. The network configuration success indicator lights up and stays on of off constantly (Staying on constantly means the socket switch is currently on, staying off constantly means the socket switch is currently off).
Operation steps : Click Device>My Device>Click Smart Socket to enter the Smart Plug List Detail Page as shown in the figure.





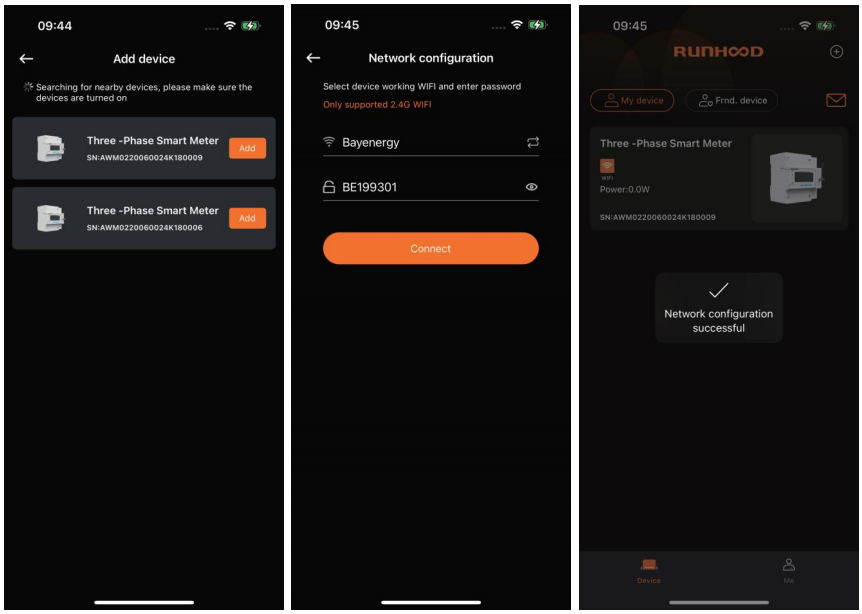
Smart Plug Usage Details
When you add multiple smart plugs, a list of smart plugs will be generated. By clicking on any smart plug, you can view its usage details.
Operation steps : Click Device>My Device>Click Smart Socket>Enter Smart Socket List> Click any location to go to the Smart Socket Details Page as shown in the figure.
Note: If there are multiple smart sockets in the home, you can click the list of adding smart sockets and then it will display the location, power, and SN number correspondingly.



7 Add Runhood Three-Phase Smart Meter (optional)

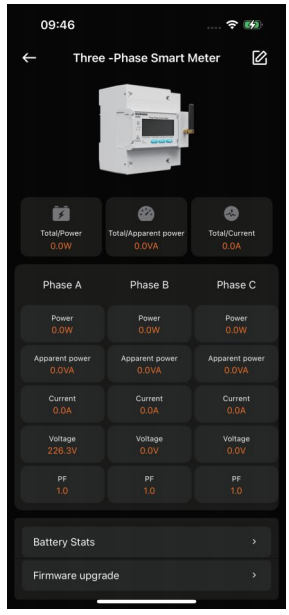
1. Turn on your phone's Bluetooth and connect your phone to Wi-Fi.
2. Launch Runhood App, click the "Add" button on the homepage, and search for Three-Phase Smart Meter devices.
3. Click the "Add" button to enter the network configuration page, scan to the Wi-Fi Link, and enter your Wi-Fi password.
4. Click the connect button and wait for the device to be successfully configured. The network configuration success indicator changes from red to green. (The indicator is red and green, indicating that the network is not provisioned, and the green indicator is successful).

Operation steps : Click Device>My Device>Click Three-Phase Smart Meter to enter the Three-Phase Smart Meter List Detail Page as shown in the figure.



7.1 Three-Phase Smart Meter Usage Details

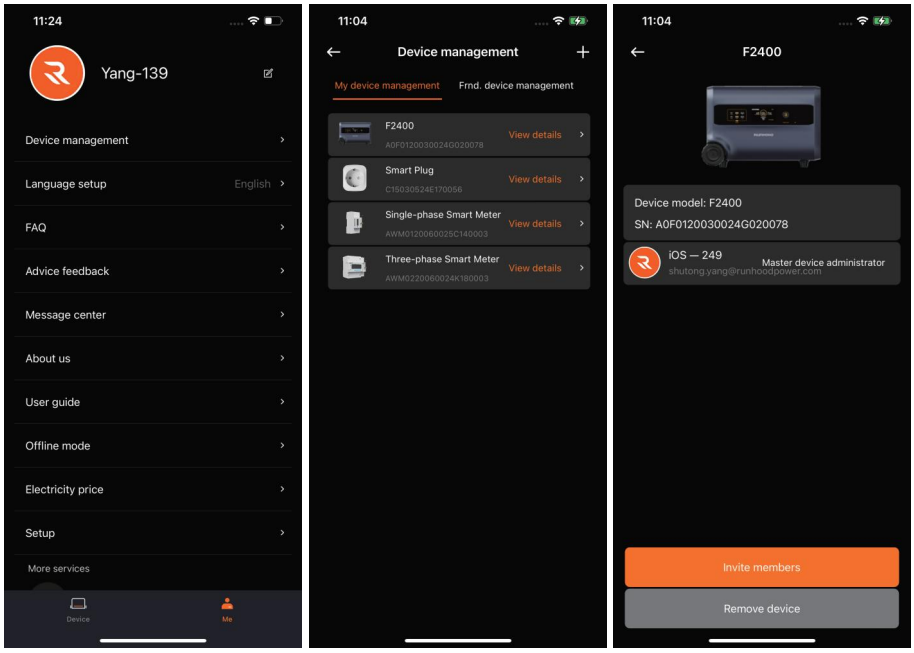
When you add a three-phase smart meter, you can directly click on the device to view the details
By clicking on a three-phase smart meter device, you can view its usage details.
Steps: Click Device> My Device> click Three-phase Smart Meter > enter the Three-phase Smart Meter details page, as shown in the figure.



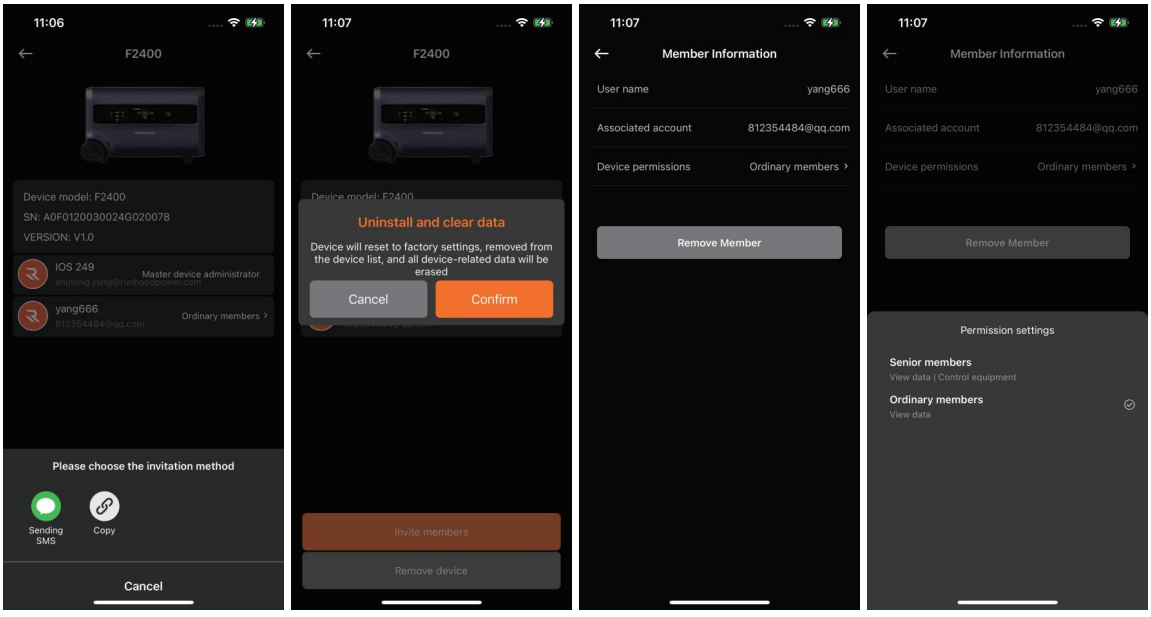
8 Me

8.1 Device Management

Operation steps: Click Me >Device Management> View Details and then you can view the device parameters, invite members or unbind the device.

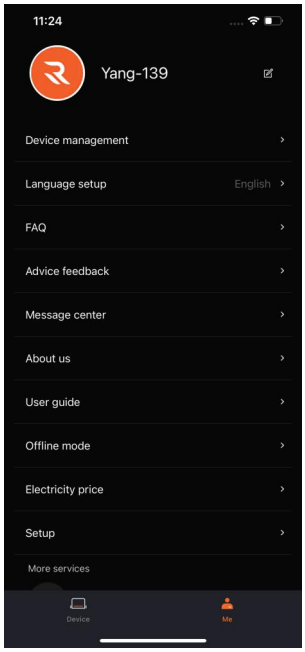


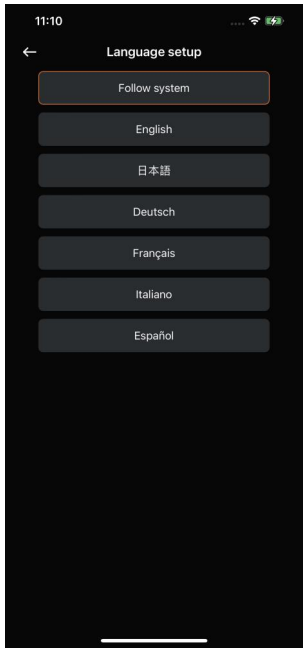
Operation steps: Click the profile and then you can set the member's information and privileges. You can also remove the member as shown below.



8.2 Language Setting

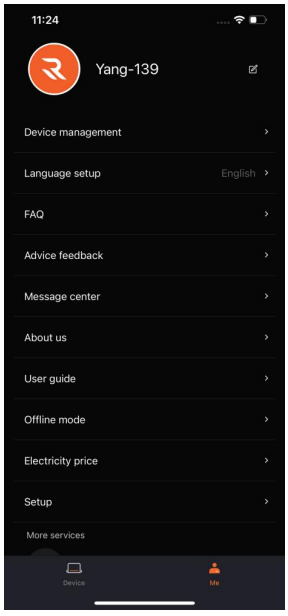
Operation steps: Click Me > Language Setting to set your preferred language as shown below.

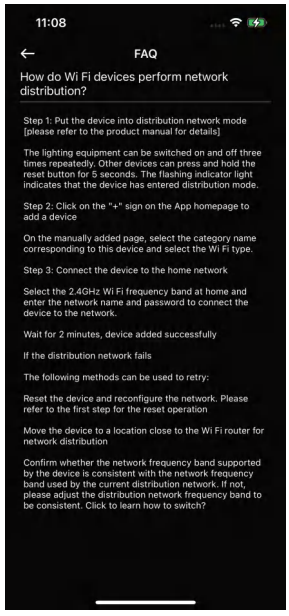




8.3 FAQs

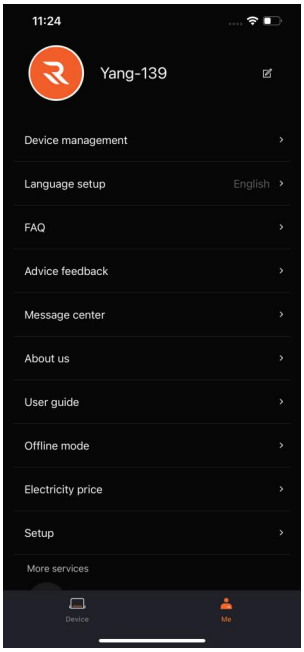
Operation steps: Click Me> FAQs to find the frequently asked questions page where answers to several common issues can be found as shown below.

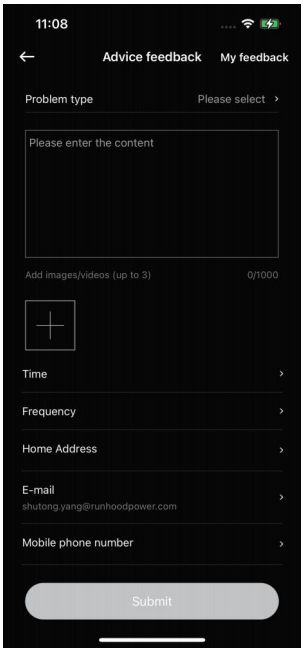




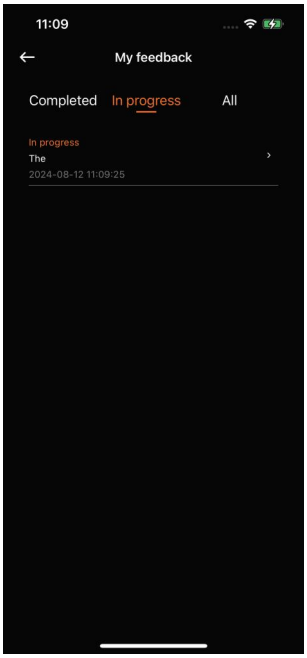
8.4 Feedback

Operation steps: Click Me> Feedback to contact Runhood Power directly regarding any issues with the device. Simply fill out the form, upload any pictures or video, and a representative from our service team will respond.



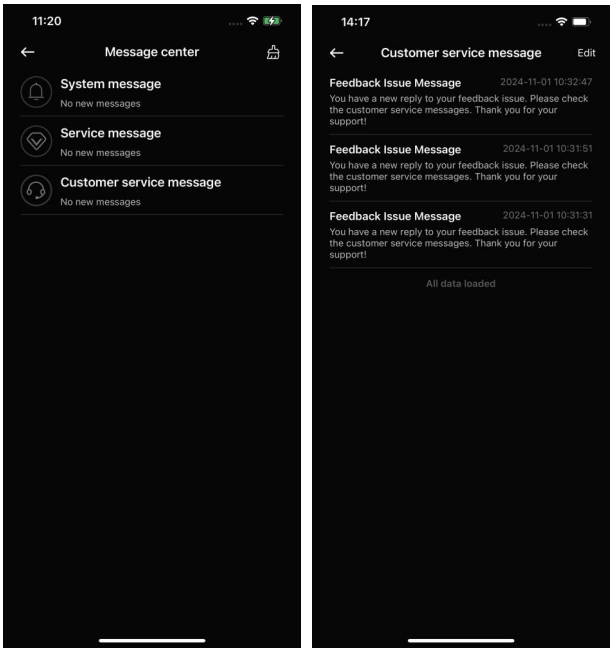


Operation steps: Click Me >Feedback>My Feedback to view the progress of your service request.



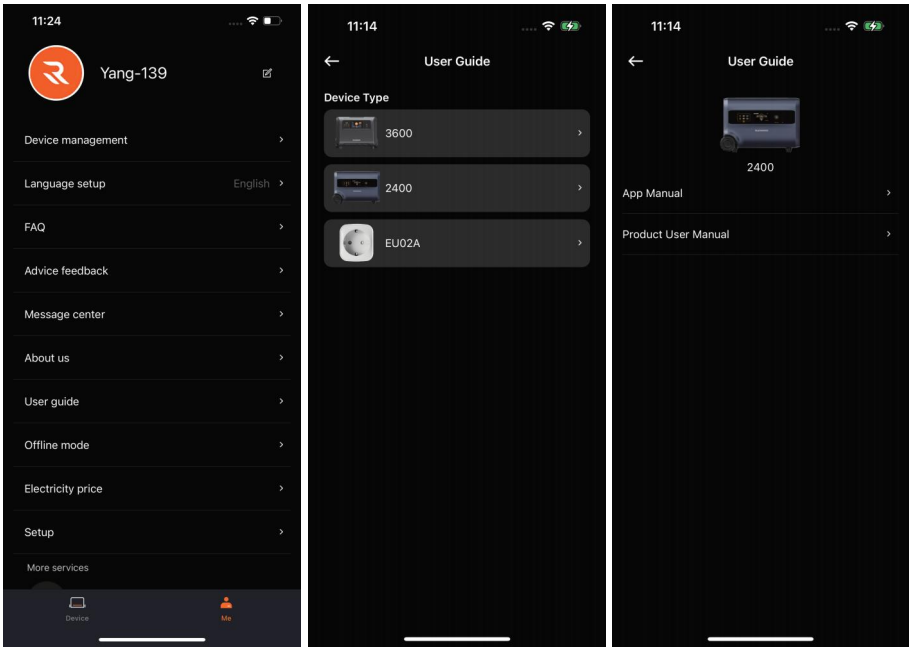
8.5 Message Center

Operation steps: Click Me> Message Center view message center data.



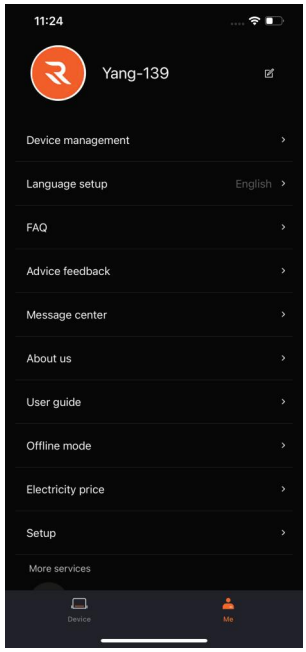
8.6 User Guide

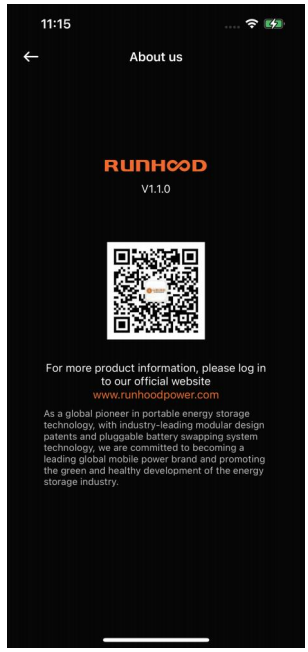
Operation steps: Click Me > User Guide to view the User Guide for your specific Runhood Power device.



8.7 About Us

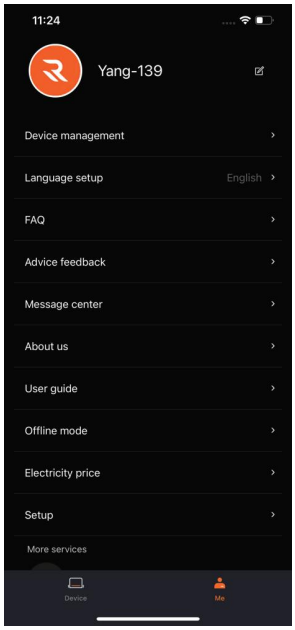
Operation steps: Click Me >About Us, and scan the code to view more information about Runhood Power and our product line.

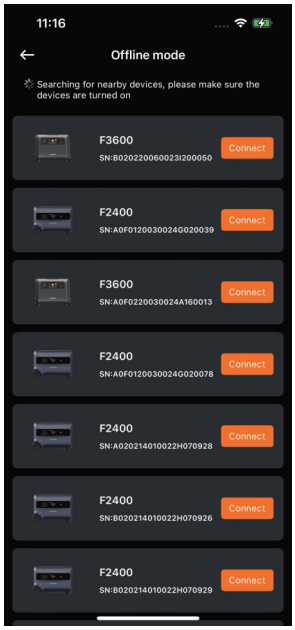


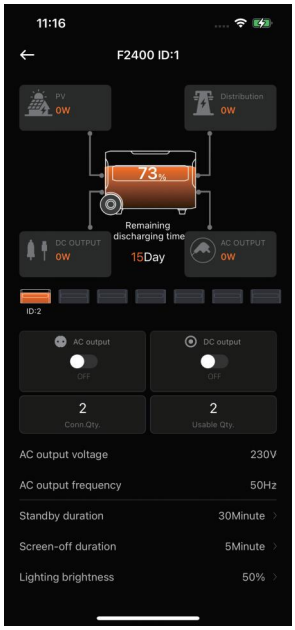


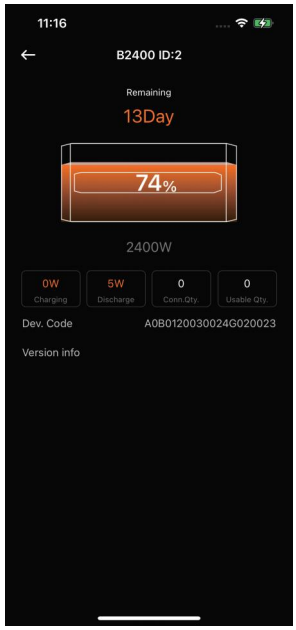
8.8 Offline Mode

Operation steps: Click Me > Offline Mode > Connect. When the device is unconnected, you can enter Offline Mode to perform a smart control over the device and view usage details of the device.



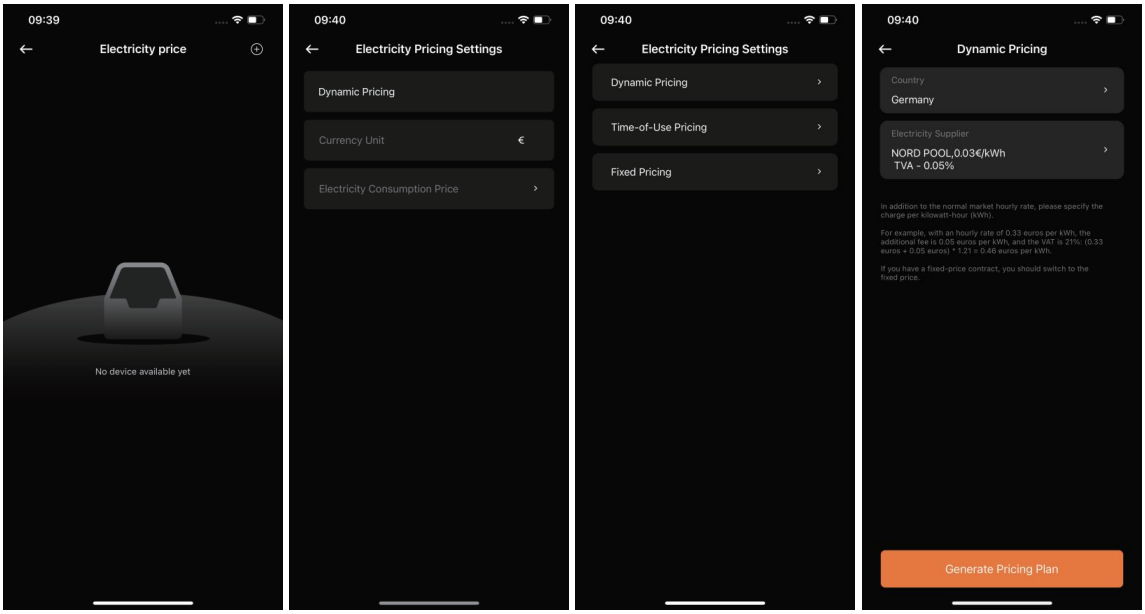




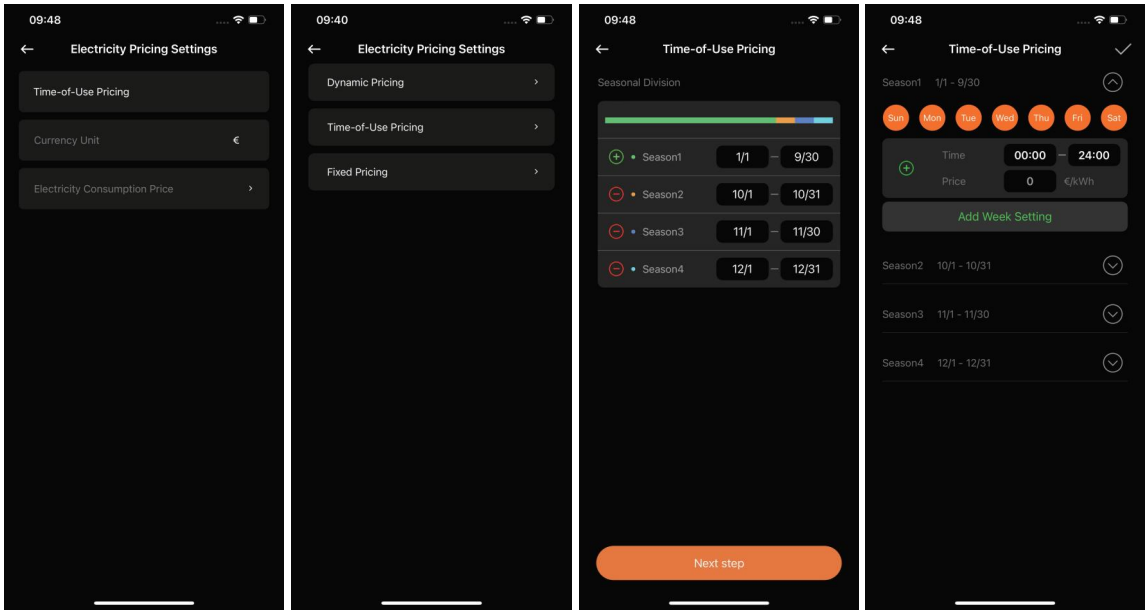


8.9 Electricity price

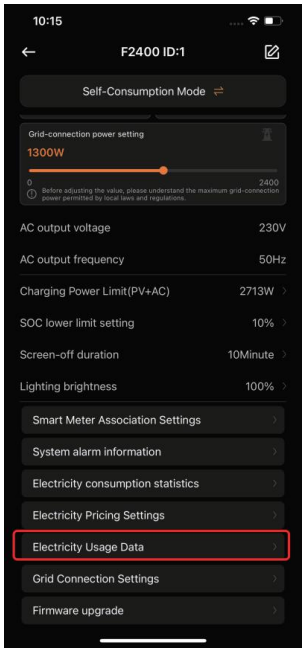
Operation steps: Click Me > Electricity price, Click the "Add" button on the electricity pricing page to enter the pricing setup screen, where you can choose to add dynamic pricing, time-of-use pricing, or fixed pricing.
Steps to add dynamic pricing:

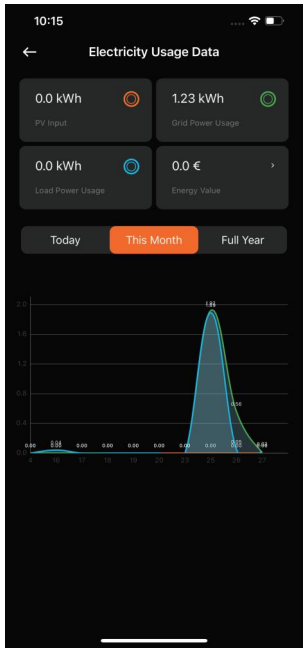


Steps to add time-of-use pricing:



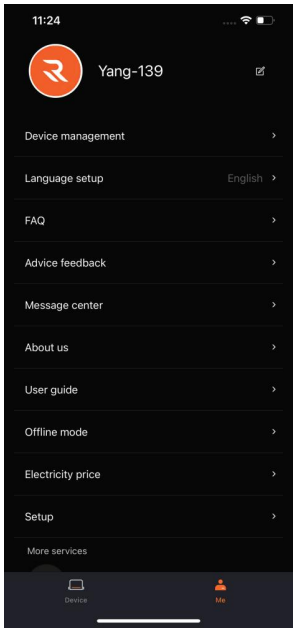
The device will calculate the electricity usage data based on the selected pricing mode, including PV, grid, load, and energy value.

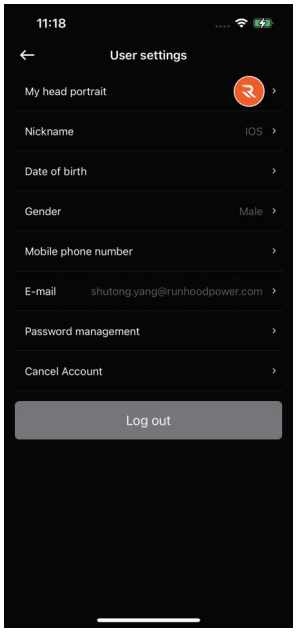


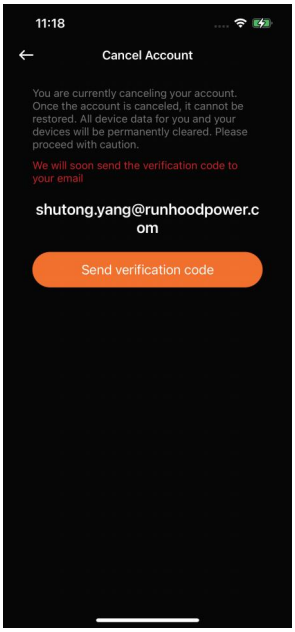


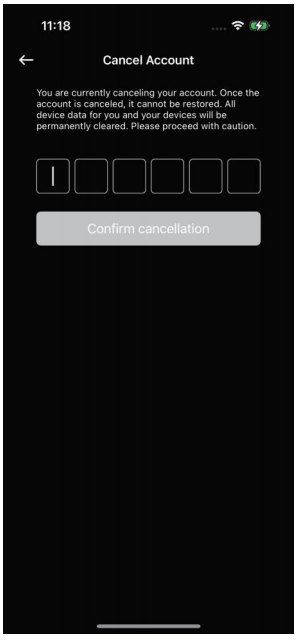
8.10 Settings

Operation steps: Click Me >Settings to enter User Settings where you can edit personal information, reset passwords, or unbind phone syncing as shown below.

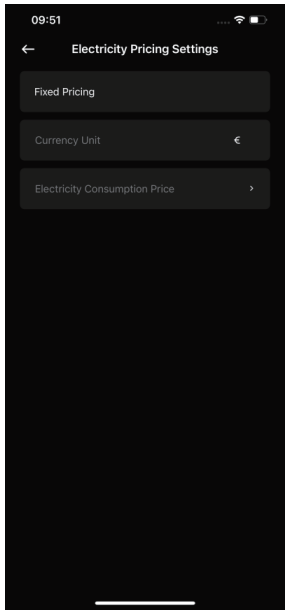


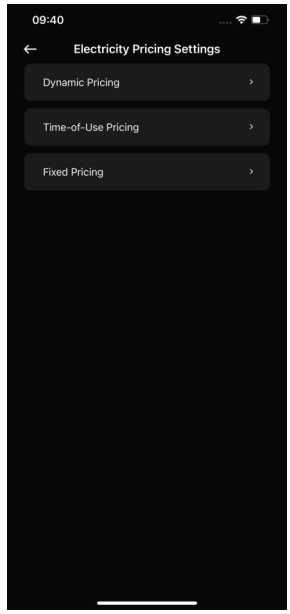


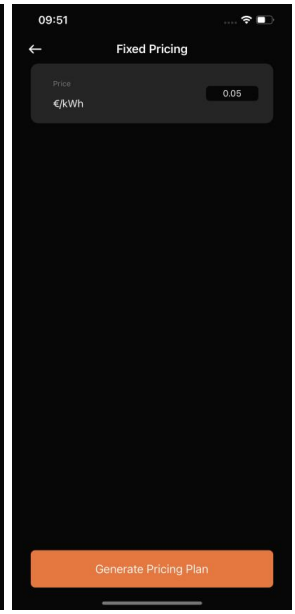




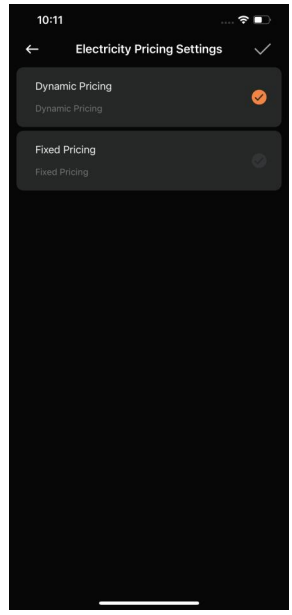
Steps to add fixed pricing:







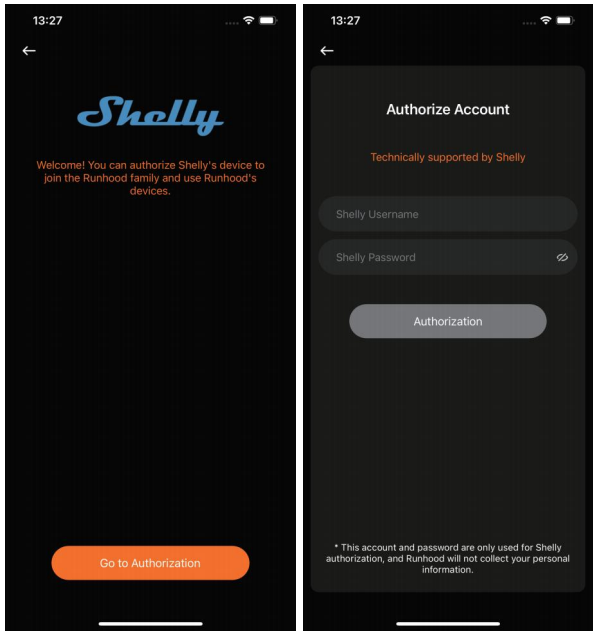
After completing the addition, select the configured pricing on the device details page.



9 More service

9.1 Shelly Account Login

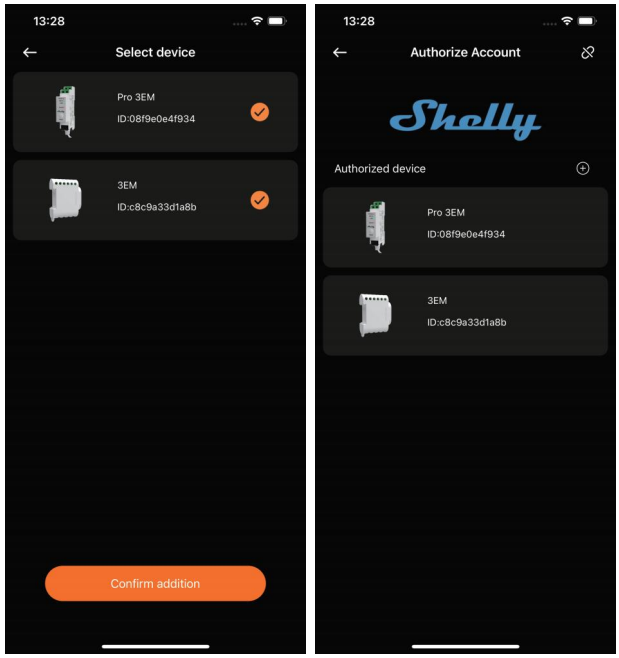
Operation steps: Click the Shelly icon to open the login page, then sign in with your Shelly account and password.



9.2 Shelly Device Binding

Note: Make sure the Shelly meter is already configured with a 2.4G network in advance.

After logging in successfully, navigate to the device binding page. Select the Shelly device you wish to add. Once added, it will be displayed on the device page.



9.3 Shelly communicates with the F2400 device

Go to the device details page, select 'Smart Meter Association Settings', and turn on the switch for the Shelly device you want to communicate with.

Note: This function requires the devices to be on the same power grid and the same WLAN, and only one device switch can be turned on at a time.