

MARSTEK

Venus D APP USER MANUAL

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I . APP download

1. **Android:** Google Play

2. **IOS:** APP Store

You can also click the following link to download:

<https://eu.hamedata.com/ems/apk/marstek/index.html>

Or you can scan the QR code to download:

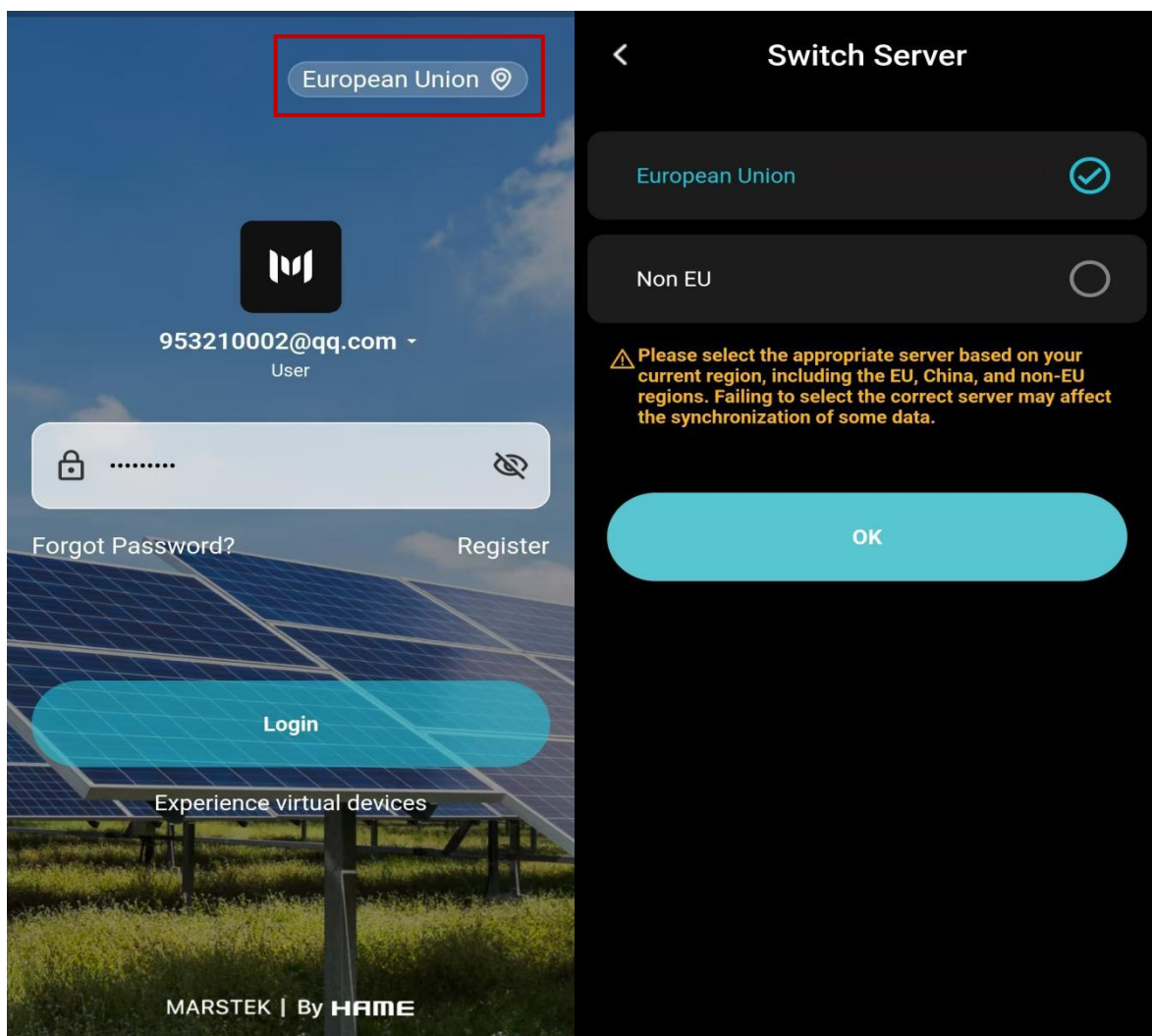


II. Account Registration / Login

An account is required to access all features of the app, including device monitoring and statistics.

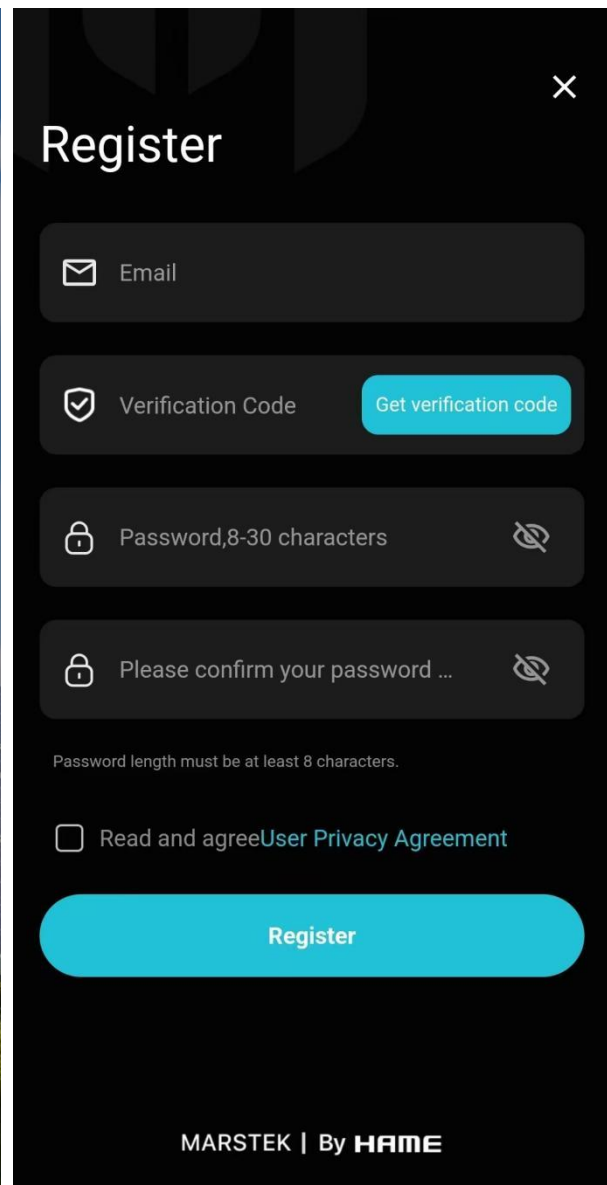
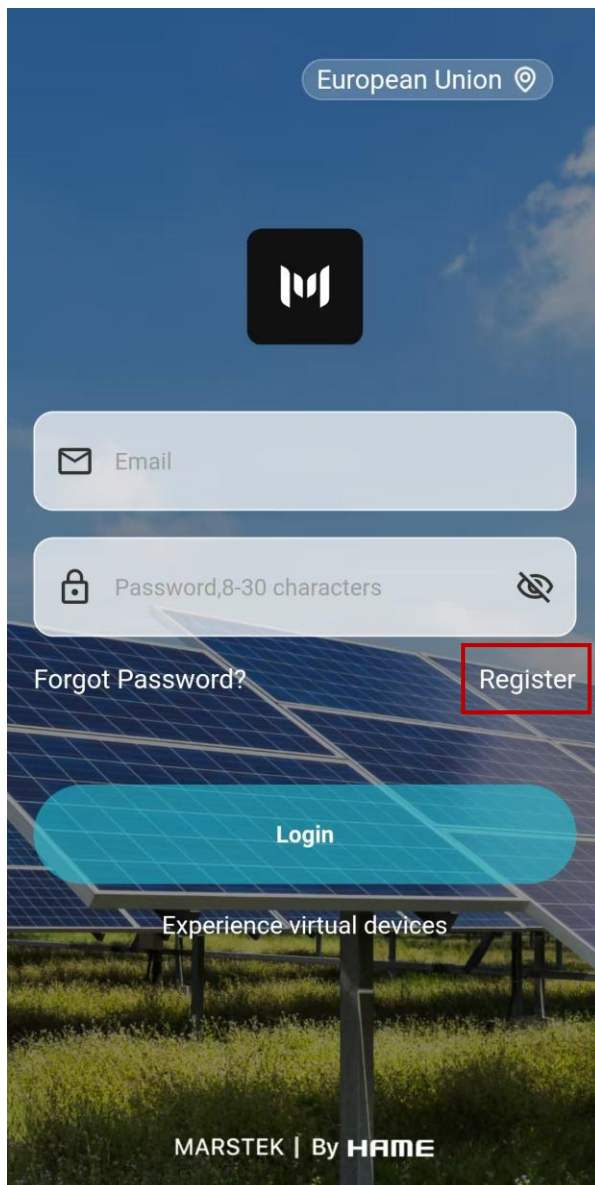
1. Select Server

- Select the server corresponding to your device location.
- You can choose servers from the top-right corner of the login page.



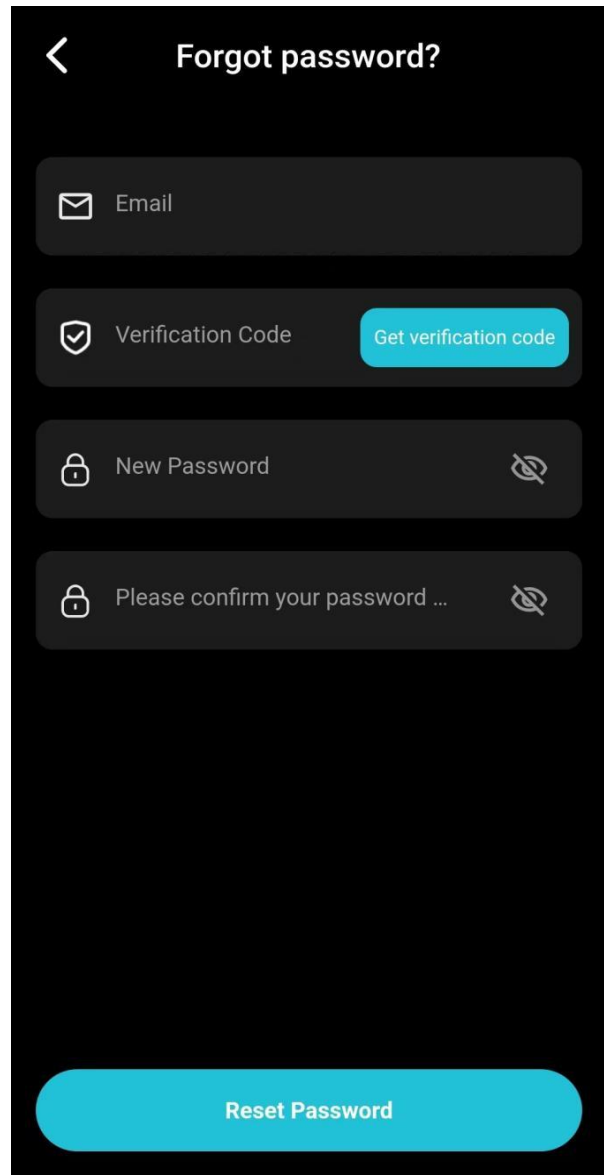
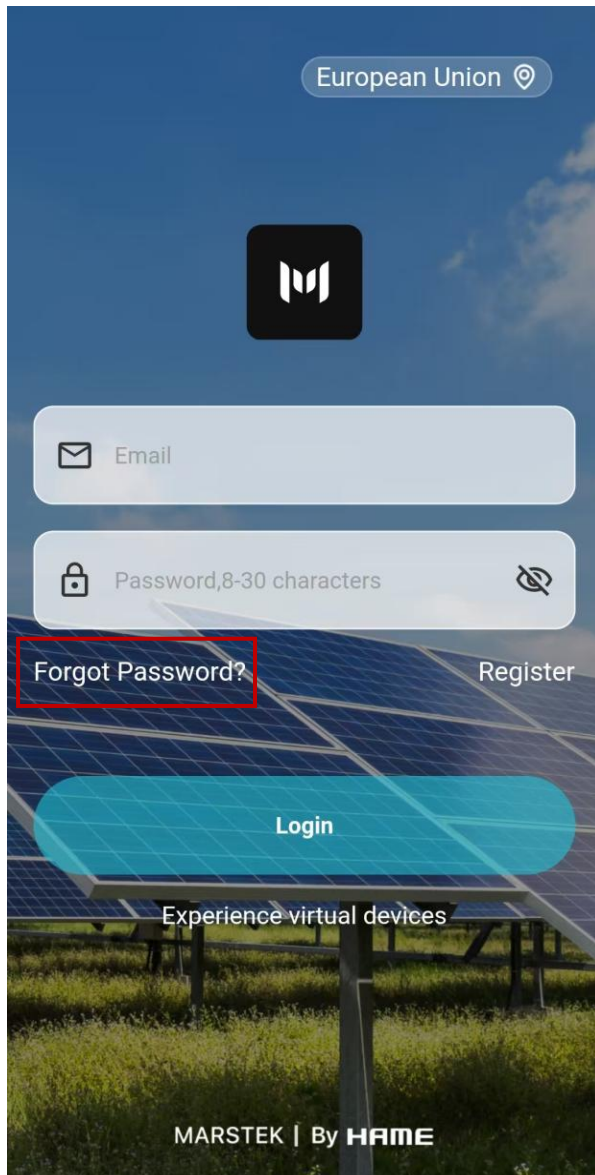
2. Registration & Login

- Enter Email + Verification Code + Password to register.
- Use your registered email + Password to log in.
- **Note:** Make sure the server matches the one used during registration.



3. Forgot Password

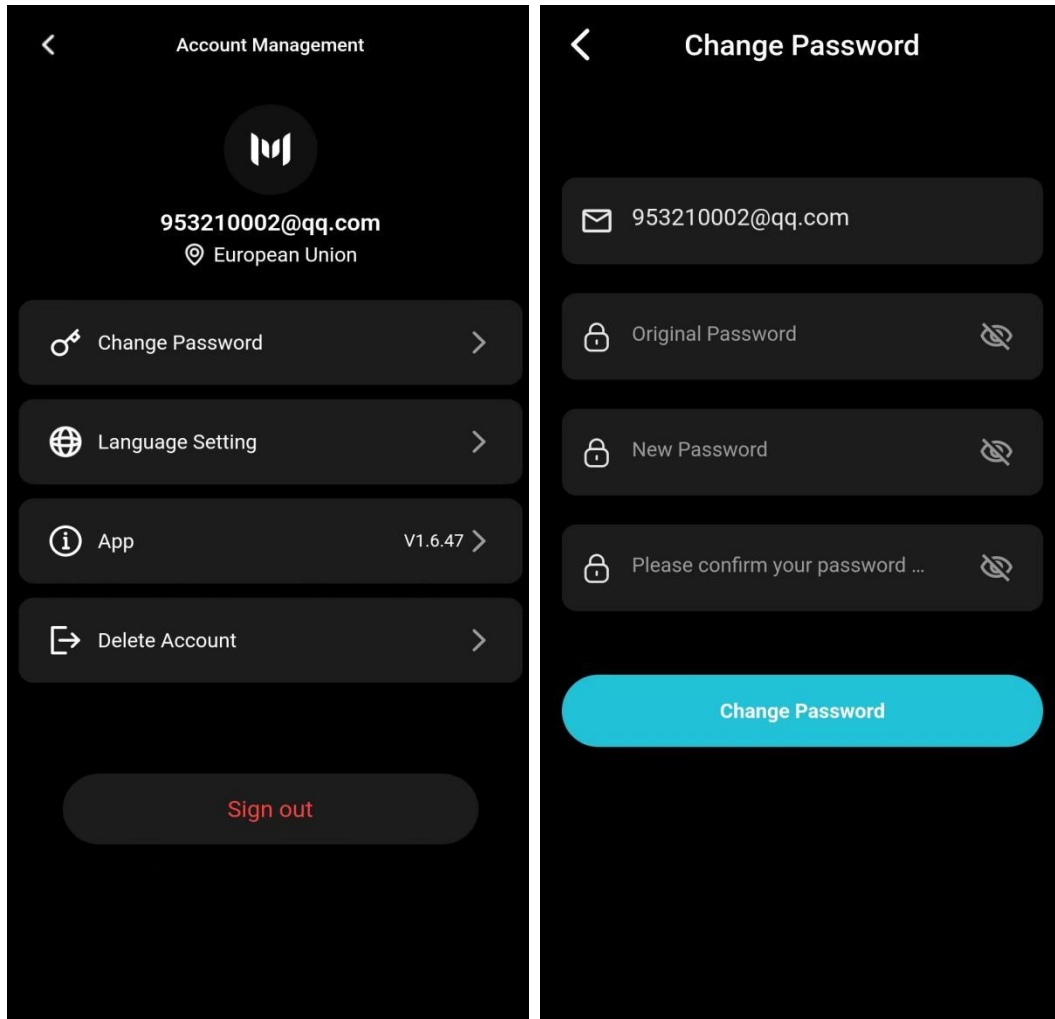
- Tap **“Forgot Password”** → Enter Email → Enter Verification Code → Set New Password.



4. Account Management

4.1 Change Your Password

Change Password → Enter new password (8–30 characters).



4.2 Delete Account

Delete Account → Agree to terms, select reason, confirm.

Note: Once confirmed, the account will be permanently deleted and cannot be used again. A new account must be registered to continue using the App.

<

Delete Account

User Cancellation Agreement

Before canceling your account, please fully read, understand, and agree to the following items before confirming the cancellation:

1. Cancellation Notice

The account is only for use in the Marstek App. After deleting the account, you will no longer be able to log in to the Marstek App. This will not have any impact on your email itself.

2. Cancellation Process

Log out of your account by entering the password confirmation in the account cancellation interface after selecting "Log Out" in the personal account section of the Marstek App device screen

3. Special Reminder

Account cancellation will not affect your email. Before canceling your account, please delete all devices under the account first. Thank you for using Marstek. If you have any suggestions or feedback about the device, please provide it in the Help & Feedback section before cancellation, so we can continuously improve our products

☐

I have read and agree to the User Cancellation Agreement.

Next

<

Delete Account

Reason for Account Cancellation

Thank you for once choosing MARSTEK. Please select the reason for cancellation to help us better improve the experience:

☐ Unbind email

☒ Change account usage

☐ Other reasons

Please enter other reasons or feedback:

0/500

Next

9

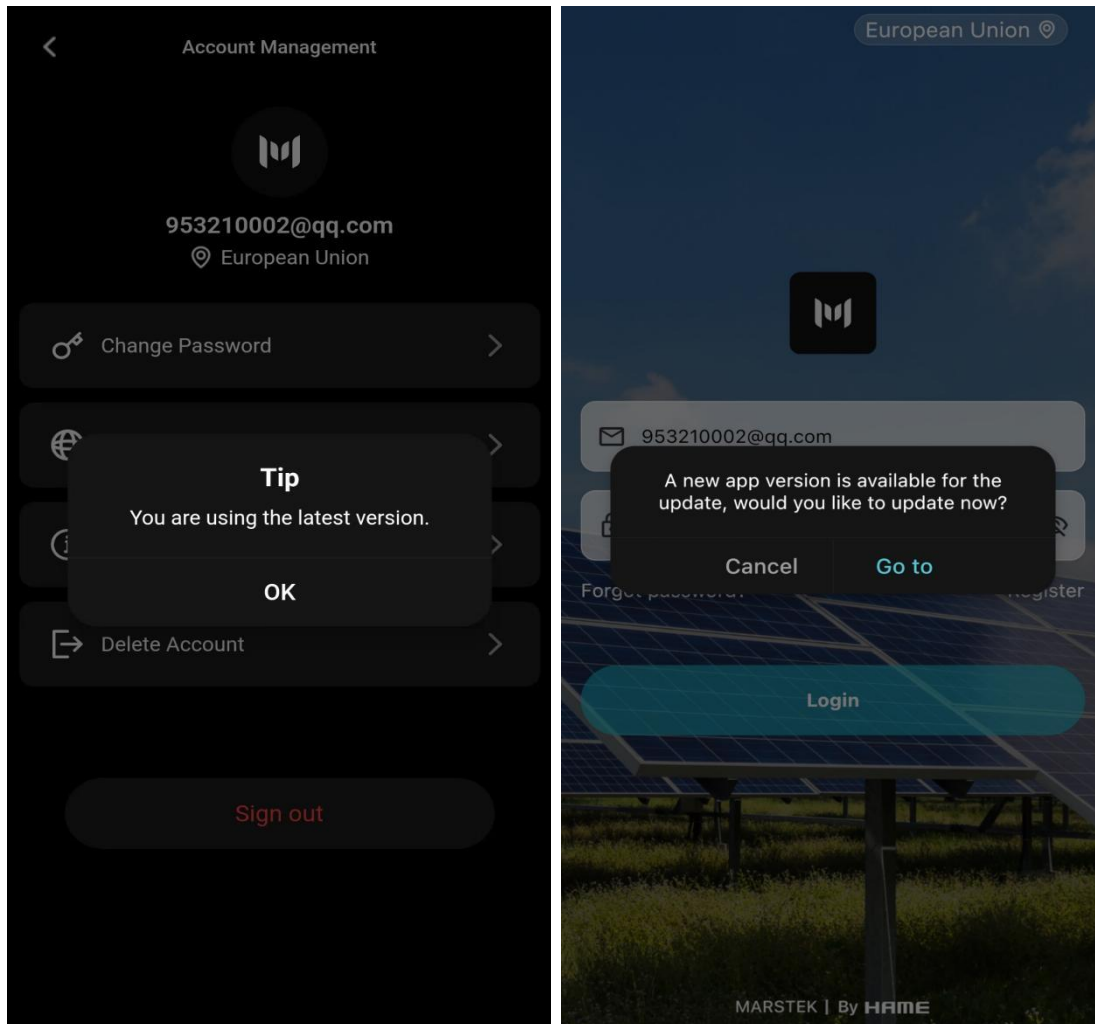
4.3 Language Settings

Language Setting → 17 languages available. Defaults to phone system language.

< Language Setting	< Language Setting
Follow system	Ελληνικά el
中文 zh	Français fr
English en ✓	Italiano it
Deutsch de	Svenska sv
Nederlands nl	Ελληνικά el
Français fr	Español es
Italiano it	Polski pl
Svenska sv	Română ro
Ελληνικά el	Українська uk
Español es	Русский ru
Polski pl	Čeština cs
Română ro	Magyar hu
Українська uk	Filipino fil
	日本語 ja

4.4 App Version

App Version → Check current version; update available when red dot appears.

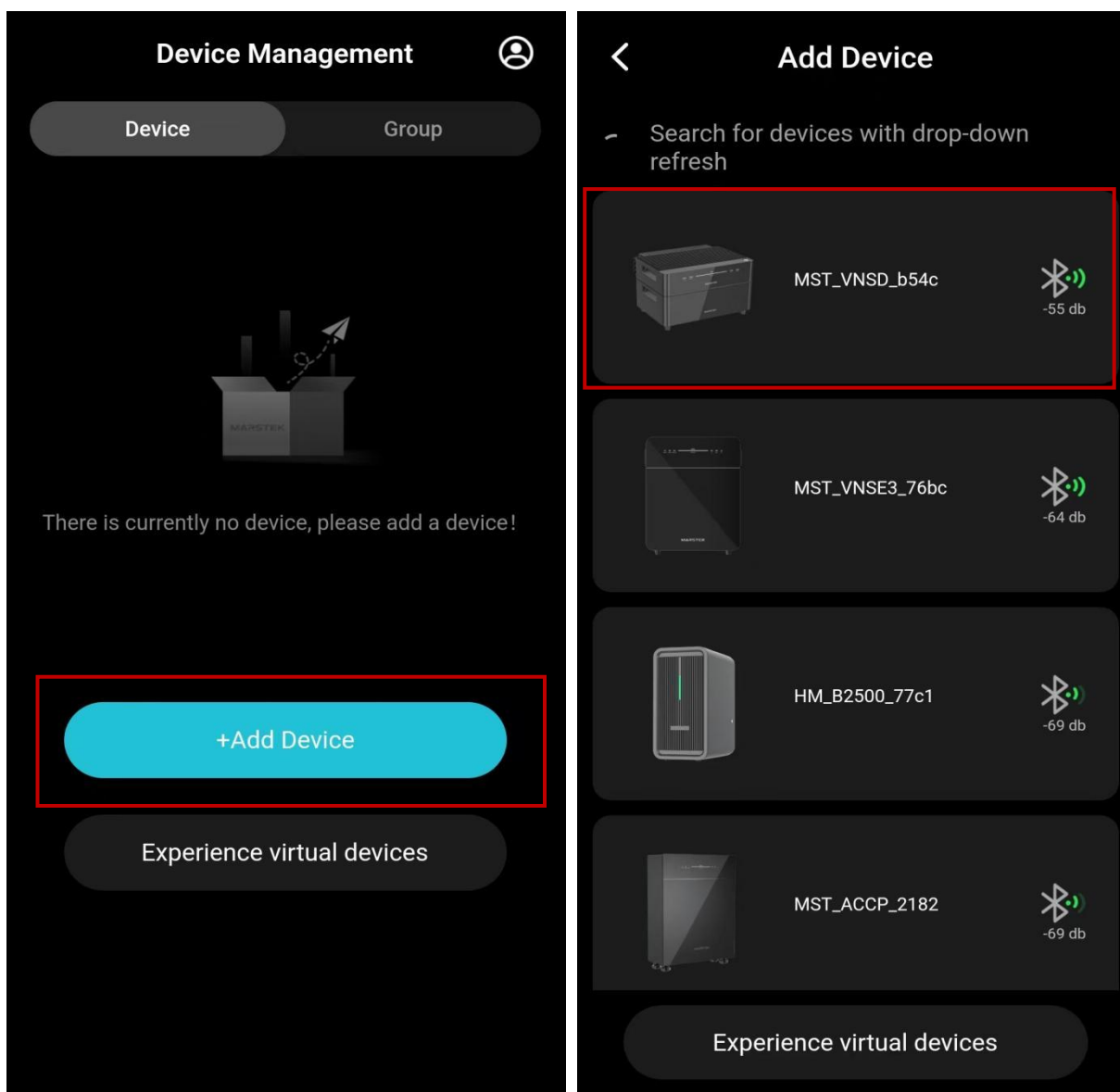


III. Device Adding Process

1. Add via Bluetooth

(1) Search for device

On the Device List page → Tap “+ **Add Device**” → App scans nearby devices → Select device to bind.

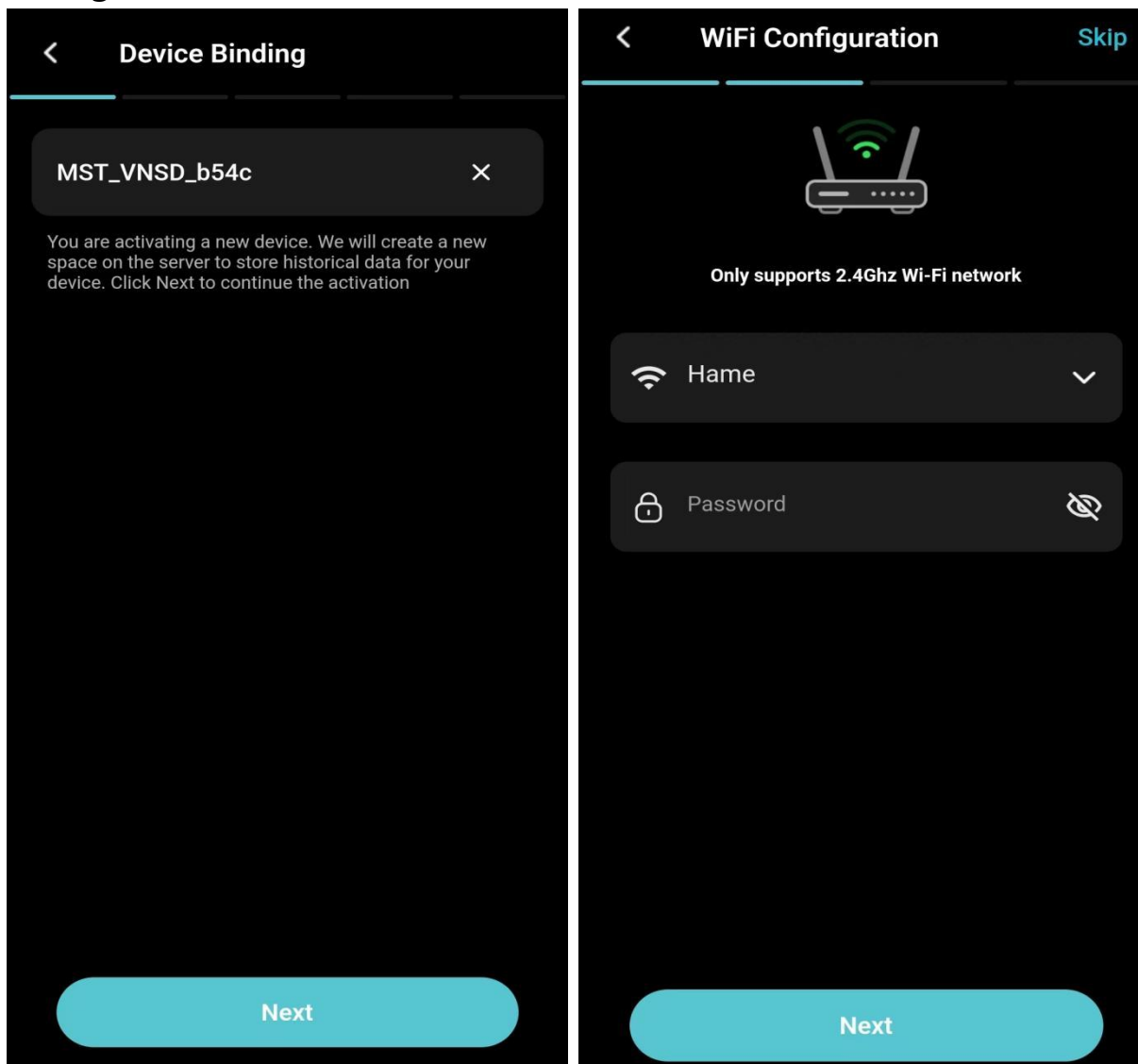


(2) Naming & Network Configuration

After device binding → App goes to Wi-Fi Setup page.

Select Wi-Fi → Enter Password → Tap Next.

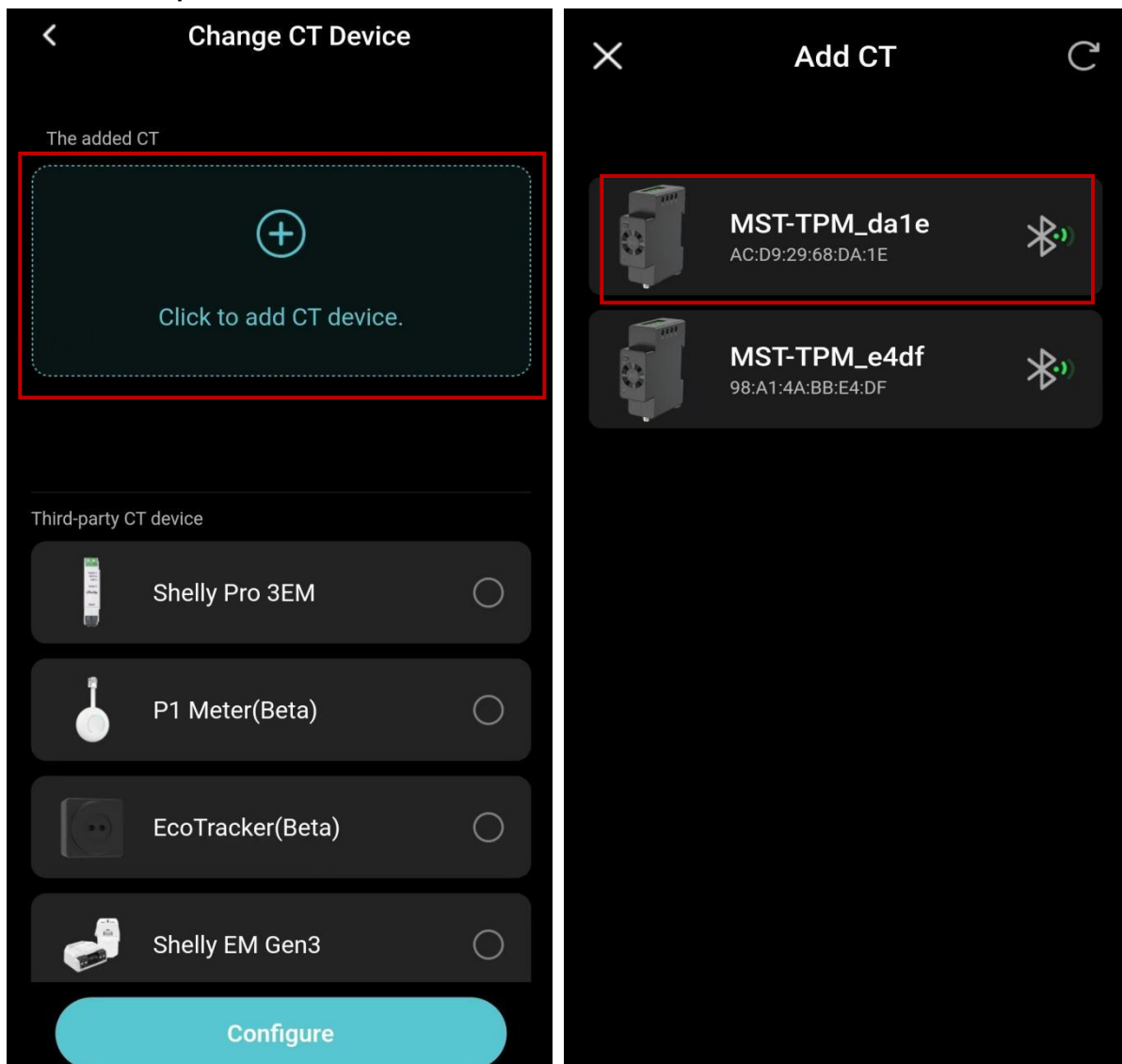
Note: Ensure Bluetooth remains connected during network configuration.

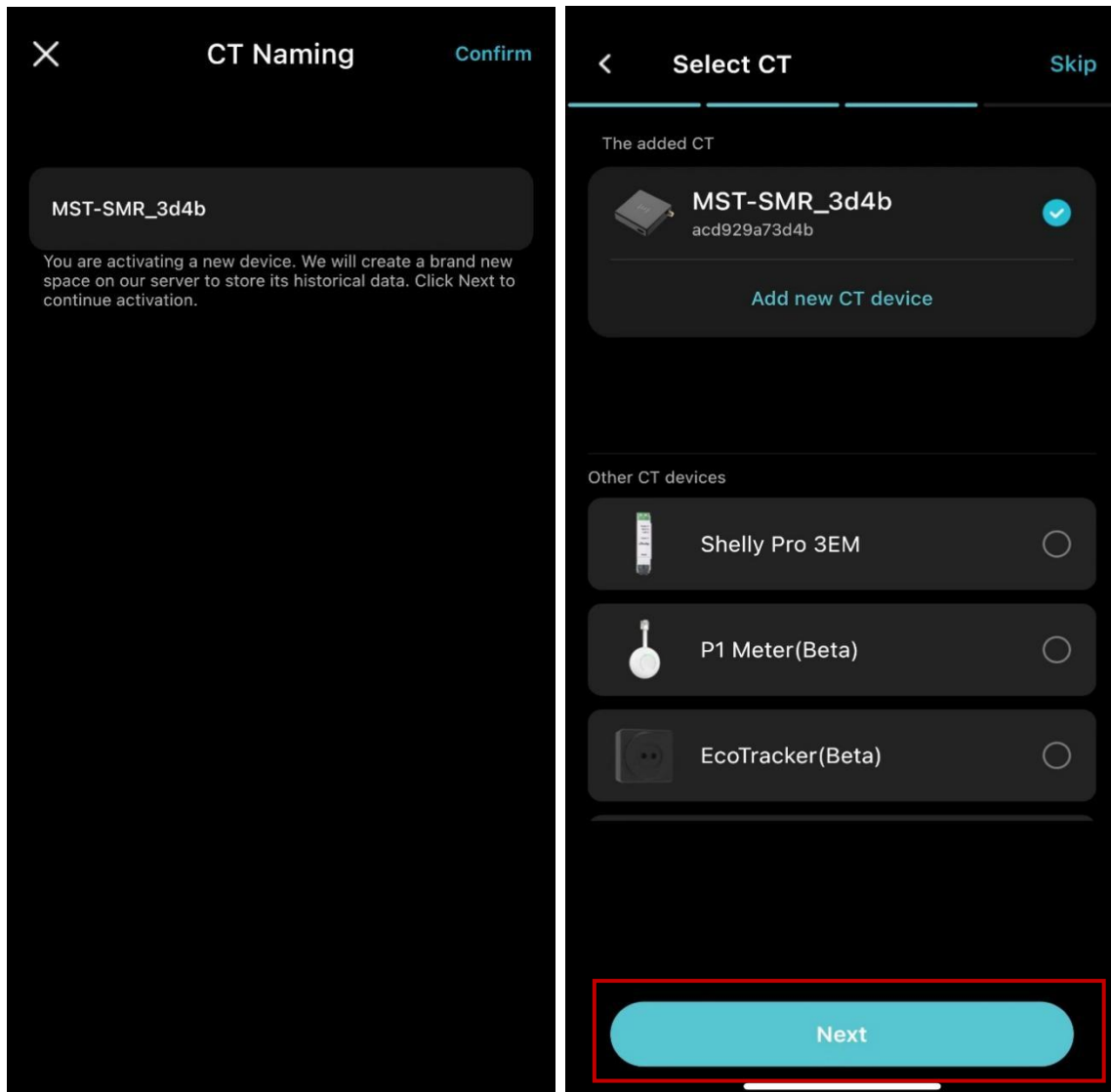


2. CT Setup

(1) Set up Marstek CT

- You can add Marstek CTs (e.g., CT002, CT003) by tapping **Click to add CT device**. Once added, CT settings can be configured directly.
- If the CT has no network connection, the App will configure the CT to use the same network as the device.
- You may use the default CT name or edit it (recommended: keep names short).

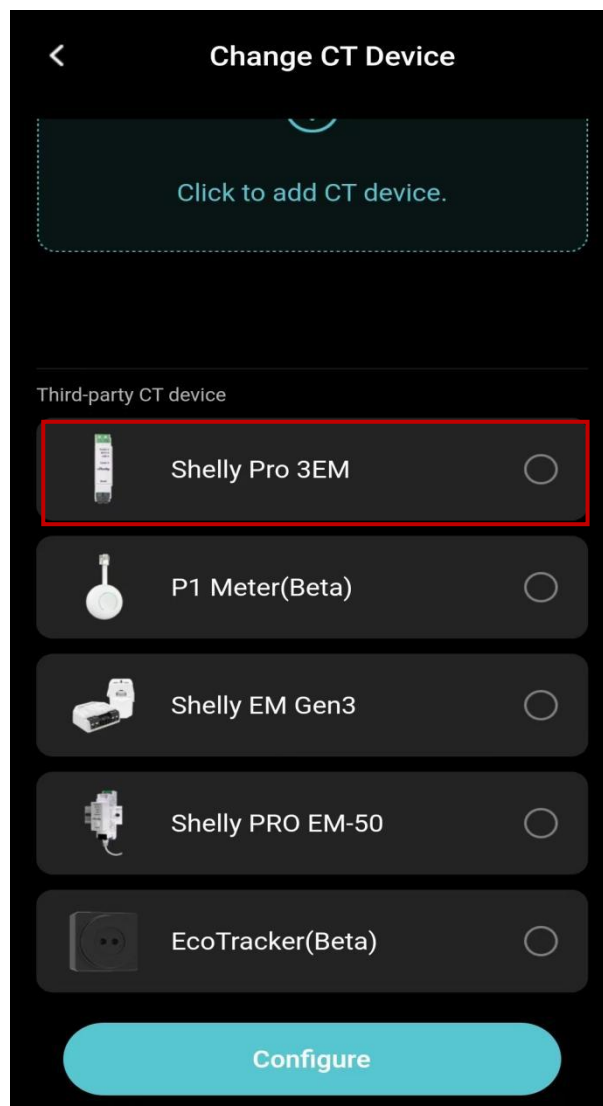




(2) Set up CTs from other brands

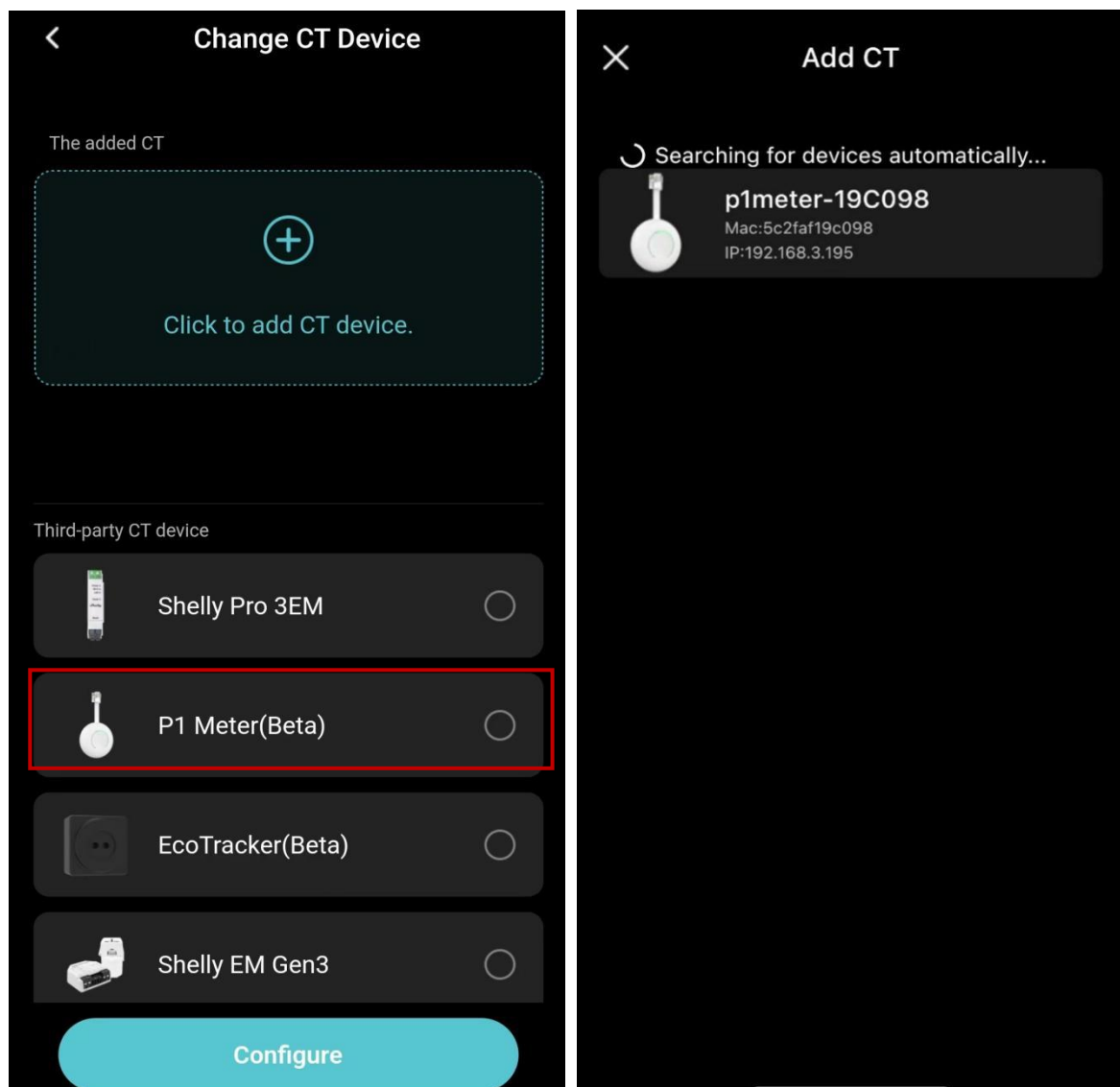
1). Shelly Series or Similar

- Select your CT model (e.g., Shelly Pro 3EM) and tap **Configure** to set up.
- **Note:** Ensure the meter is connected to the same local network as the device.



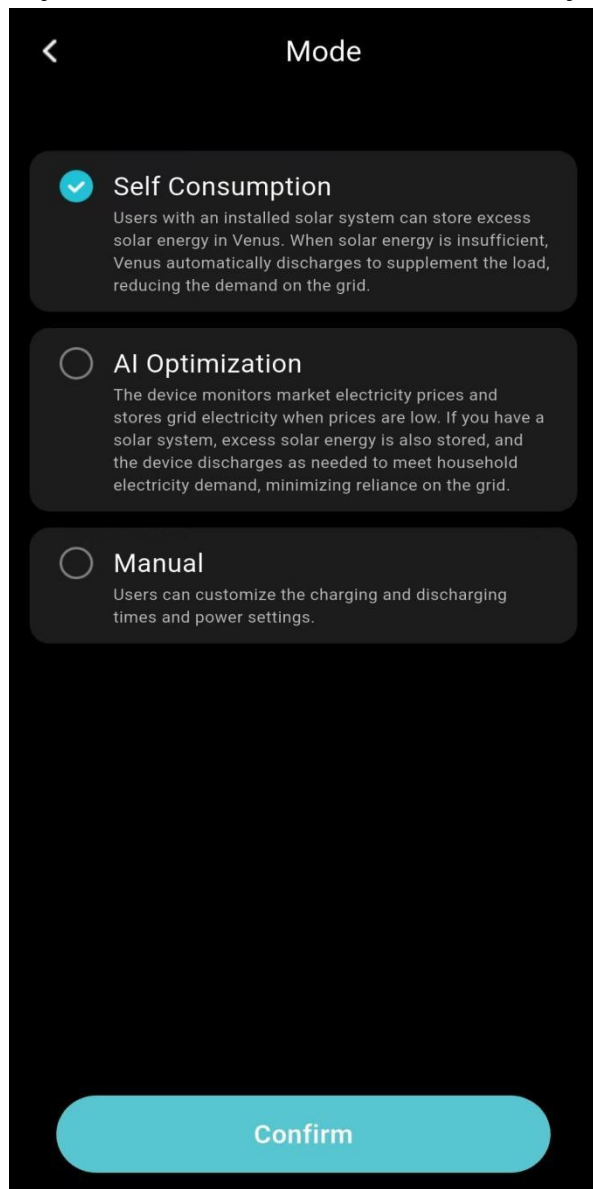
2). P1 Meter / Ecotracker

- Select your CT model (e.g., P1 Meter) and tap **Configure** to set up.
- During configuration, ensure that the mobile phone, CT, and device are all within the same network.
- **Note:** For P1 and Ecotracker, you need click the option to add your device then return to the setup page to configure.



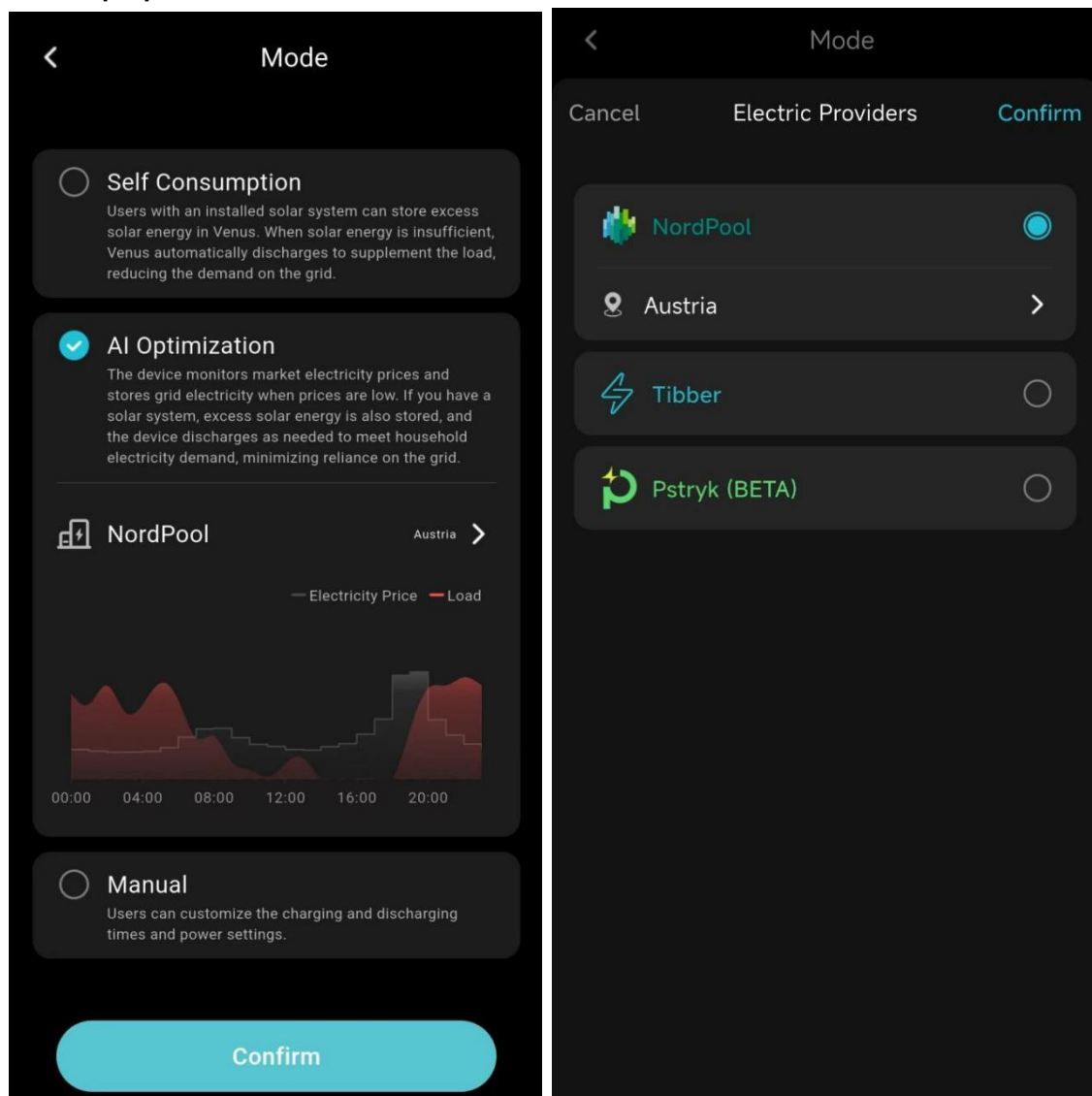
3. Set Work Mode

- **Self-Consumption:** Your device will discharge according to the load consumption and store the excess electric energy from the solar system (for homes with solar system).



- **AI Mode:** Your device will charge at the lowest price according to your electricity provider. This mode also includes the function of Self Consumption.

Note: 3 power suppliers to choose from; To select NordPool supplier, you need to select the region where the current equipment is located.



- **Manual Mode:** Set discharge/charge time schedule, power and days for working automatically.

<

Charge/Discharge Strategy Setting

Self Consumption

Users with an installed solar system can store excess solar energy in Venus. When solar energy is insufficient, Venus automatically discharges to supplement the load, reducing the demand on the grid.

AI Optimization

The device references the public market electricity price and stores grid electricity when the price is at its lowest. If the user has installed a solar system, the system will also store excess solar energy in the device and supplement the household's electricity needs as required, minimizing reliance on the grid.

Manual Mode

Users can customize the charging and discharging times and power settings.

04:02--23:00

:

Discharge:222

SUN | MON | TUE | WED | THU | FRI | SAT


+ Add charge/discharge rules

Confirm

4. Firmware Upgrade

After network configuration, if a new firmware version is available, an upgrade prompt will appear. Tap to upgrade directly.

OTA Upgrade




MST_VNSD_b54c
EMS:114.9,VNS:111.6,BMS:110

The latest firmware is available:
From:114.9.111.6.101.2.110
To:114.8.111.6.101.2.110

Update Now

Update Firmware



MST_VNSD_b54c
EMS:V114.9->V114.8

(1/1)Updating...12.31%

Upgrading in progress, please wait a while...

⚠ During the upgrade, please keep your phone close to the device

IV. Home Page

1. Communication Method

The APP supports device communication via:

(1) Bluetooth

- **Green:** Bluetooth communication is active.
- **Gray:** Bluetooth disconnected, communication unavailable.

(2) Wi-Fi

If Bluetooth is disconnected:

- **Green Wi-Fi:** Wi-Fi communication active.
- **Gray Wi-Fi:** Device Wi-Fi disconnected.

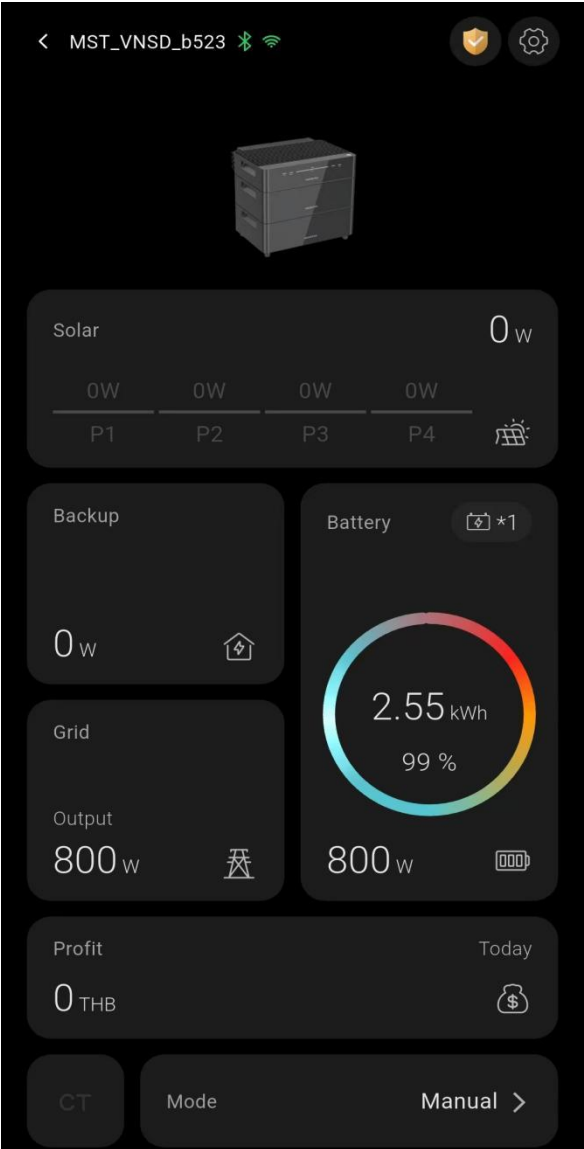
Note: Either Bluetooth or Wi-Fi is green, the App can communicate with the device.

2. Device Information

On the Device Page, you can check:

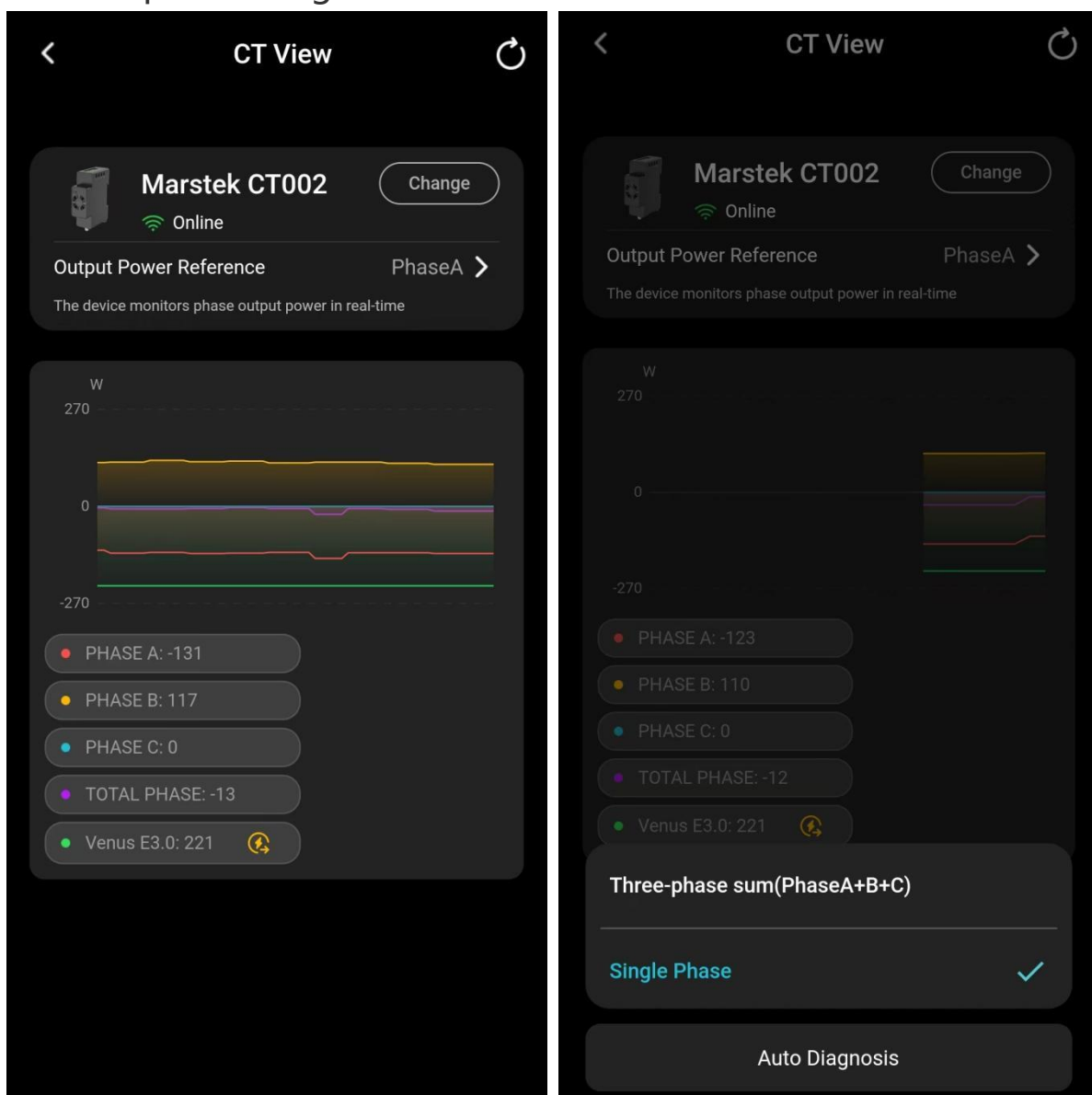
- Device status: Charging / Discharging / Standby / Backup / Bypass
- Power input & output
- Cumulative discharge
- Battery charge level
- Work mode
- CT status (Green = connected; Gray = disconnected)

You can also switch between different working modes.



3. CT Status

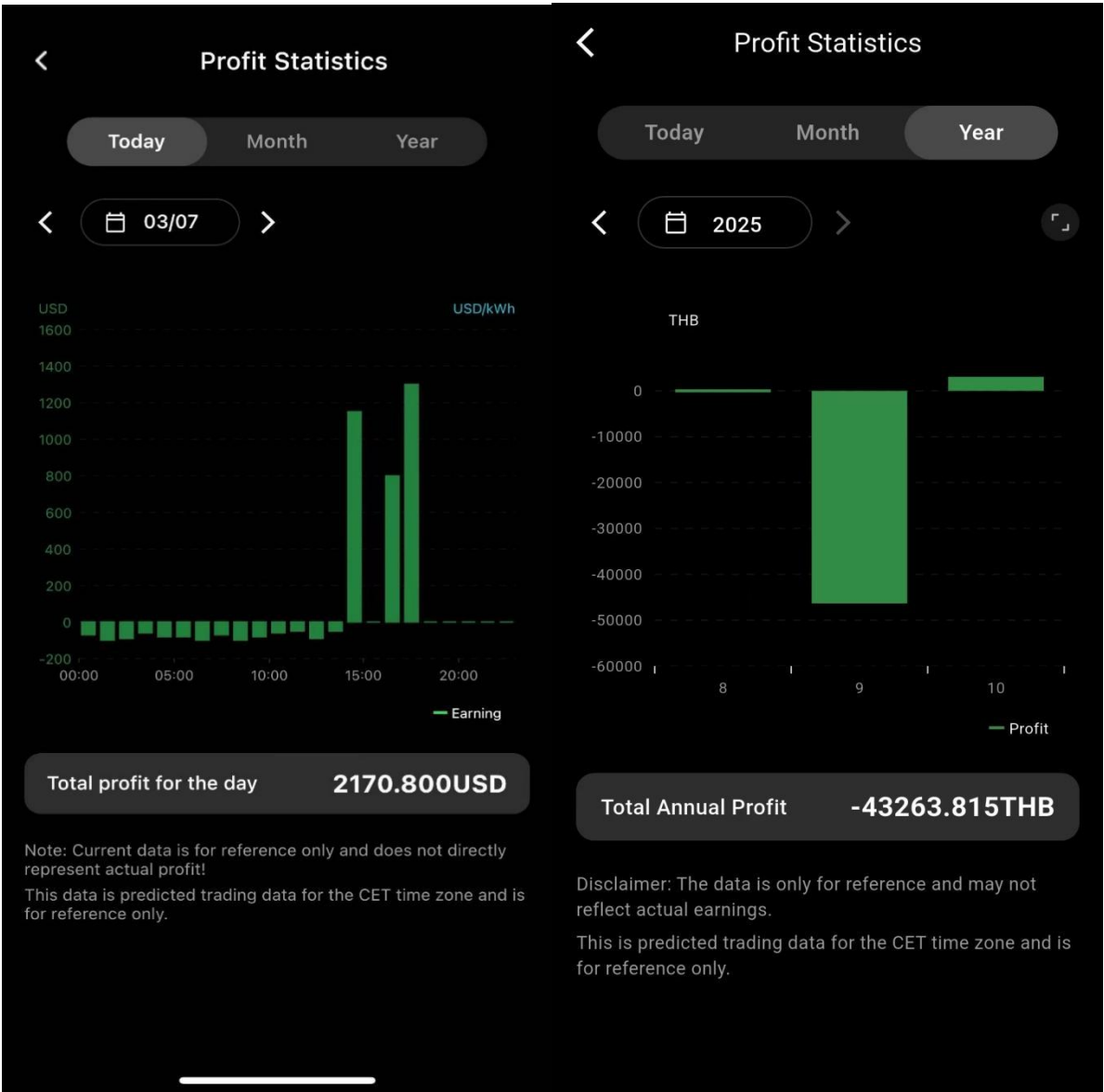
- Tap **CT** to enter the CT settings page.
- Choose output power reference: Single phase/Three-Phase Sum. Or you can tap Auto Diagnosis to let the CT identify work mode.
- When CT is connected, you can also perform a wiring sequence diagnosis.



V. Statistics

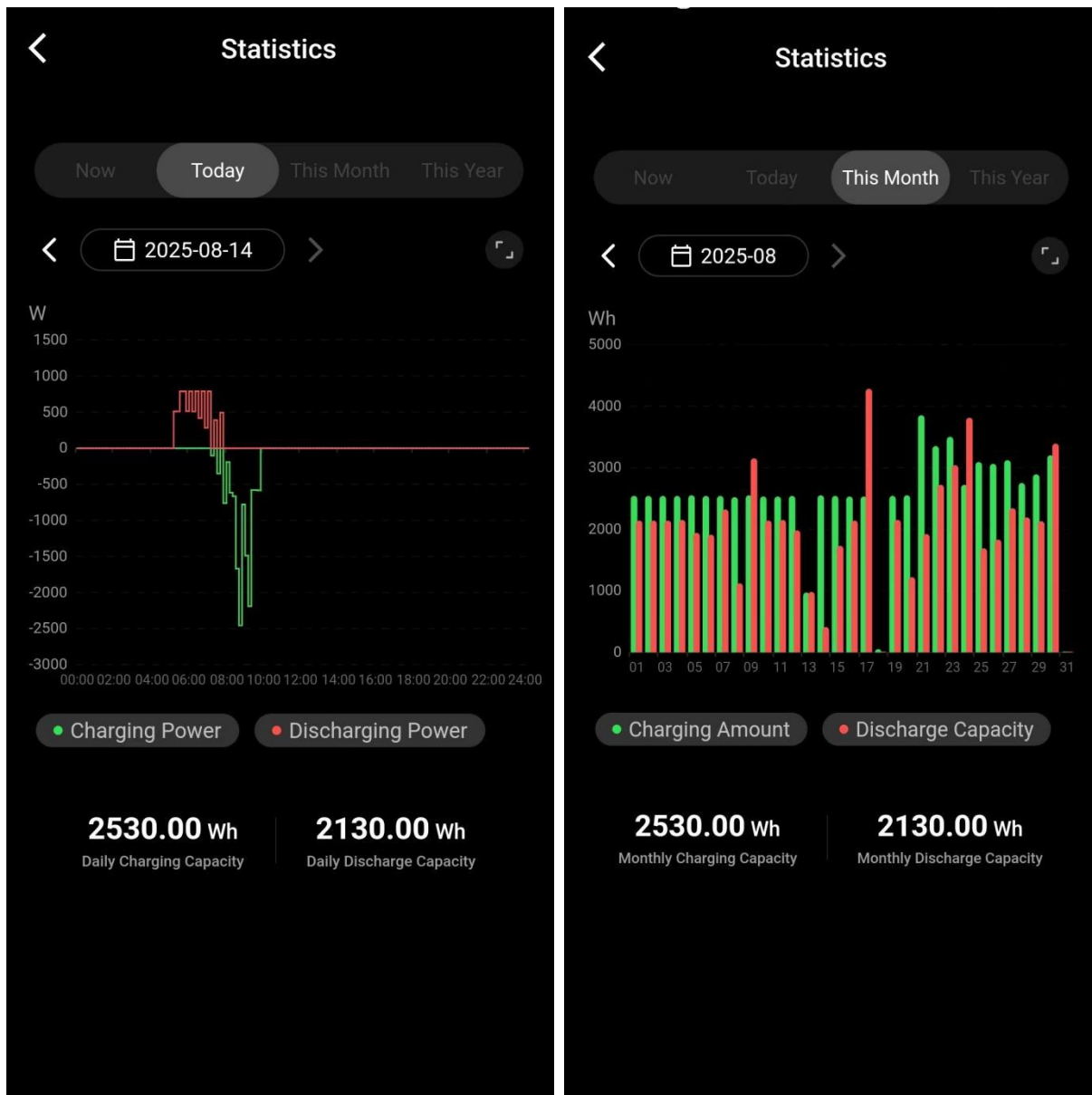
1. Profit

- Tap **Profit** to view profit statistics.
- In **AI Mode**, the daily electricity price curve is also displayed.



2. Power & Energy

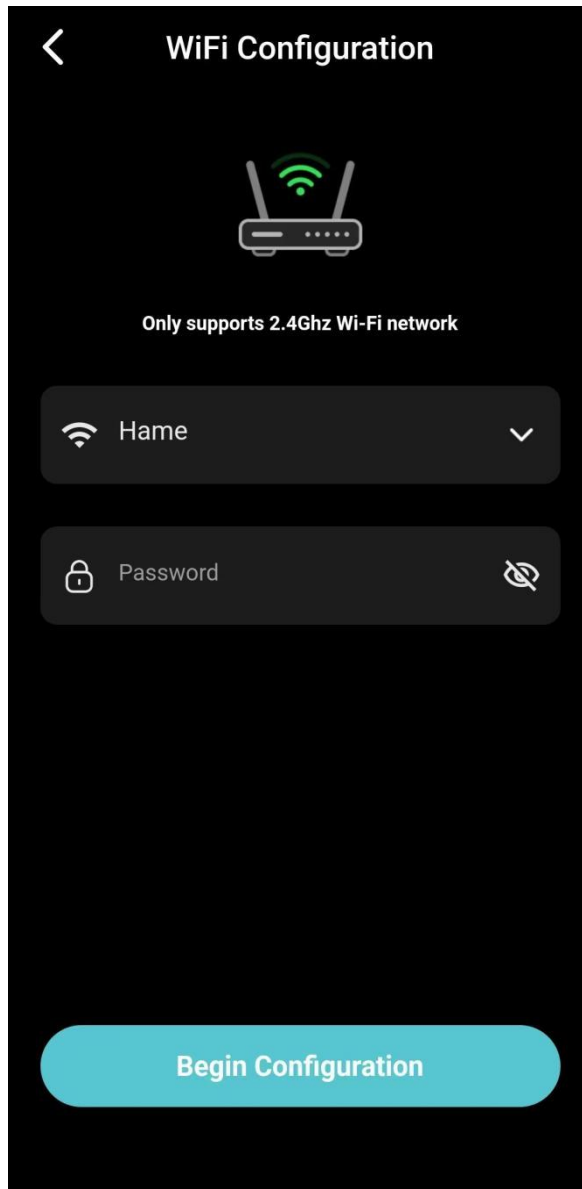
- Tap **Cumulative Discharge** to view historical data.
- Includes charge/discharge power and energy by **day, month, or year**.



VI. Settings

1. Wi-Fi

Configure the device network (requires active Bluetooth connection).

A screenshot of a mobile application's 'WiFi Configuration' screen. The screen has a black background. At the top left is a white back arrow icon. To its right is the title 'WiFi Configuration' in white. Below the title is a white icon of a Wi-Fi router with a green signal. Underneath the icon, the text 'Only supports 2.4Ghz Wi-Fi network' is displayed in white. There are two input fields: the first is labeled 'Name' with a Wi-Fi icon on the left and a dropdown arrow on the right; the second is labeled 'Password' with a lock icon on the left and an eye icon on the right. At the bottom of the screen is a large, rounded, teal button with the text 'Begin Configuration' in white.

< WiFi Configuration

Only supports 2.4Ghz Wi-Fi network

WiFi Name

Lock Password

Begin Configuration

2. Electricity Pricing

Set currency unit and charge/discharge price. Profits in Manual or Automatic Mode will be calculated based on this price.

< Set Fixed Electricity Price

Currency
EUR >

Charging price(EUR/kWh)
9.700

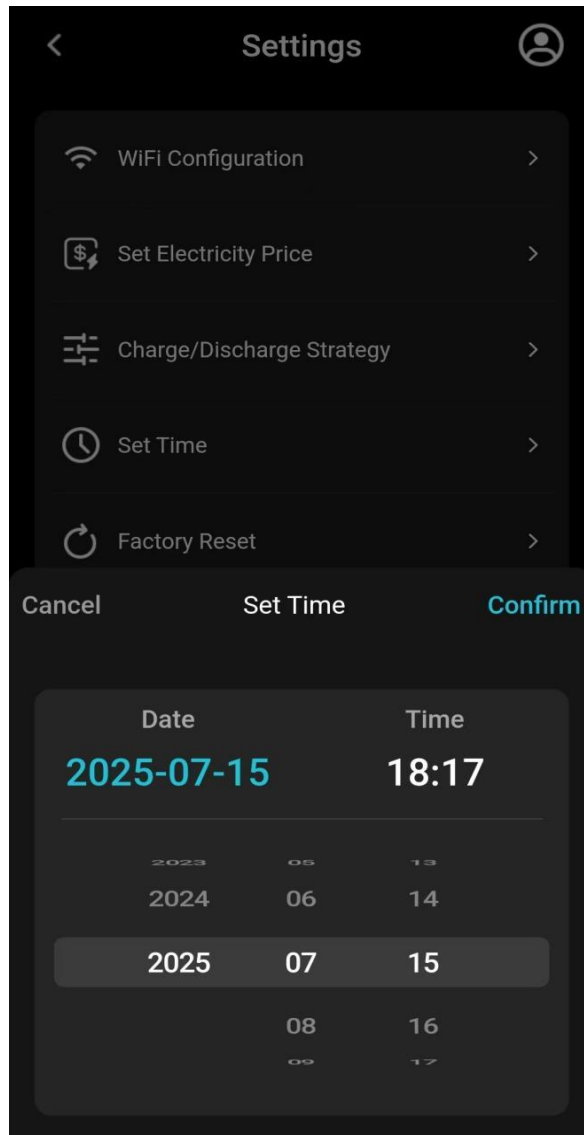
Discharging price(EUR/kWh)
9.100

The current set price is only used as a reference for the statistical gain of the "Self-Consumption Mode" and "Manual Mode" in the "Charging and Discharging Strategy".

OK

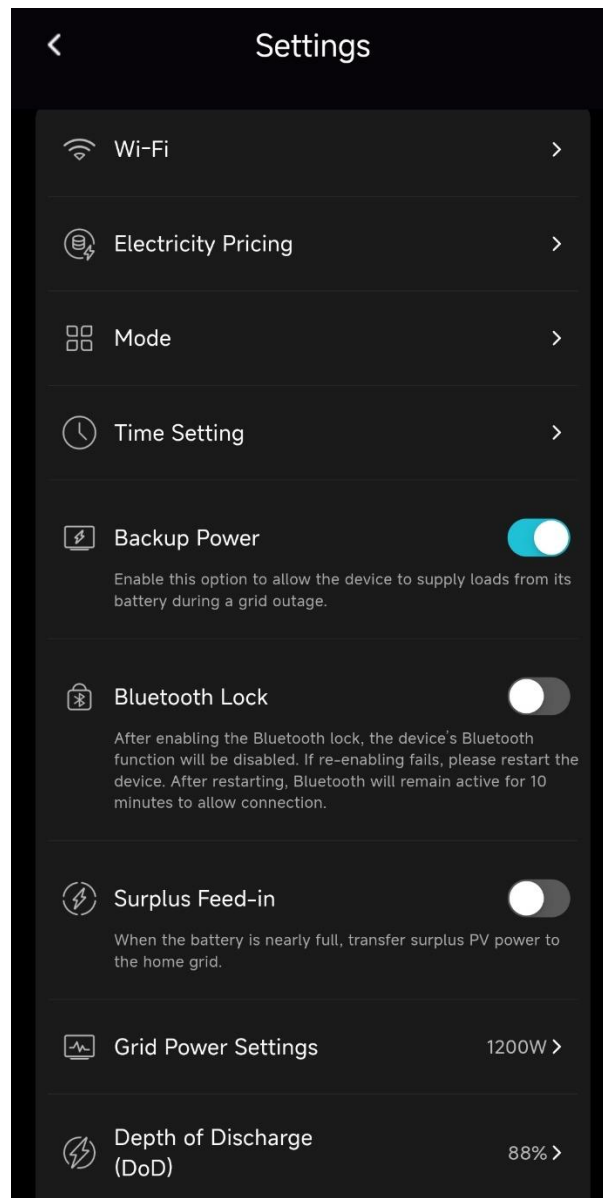
3. Time Setting

Set time for the device. When your device is connected to the Internet, the time will be set automatically.



4. Backup Power

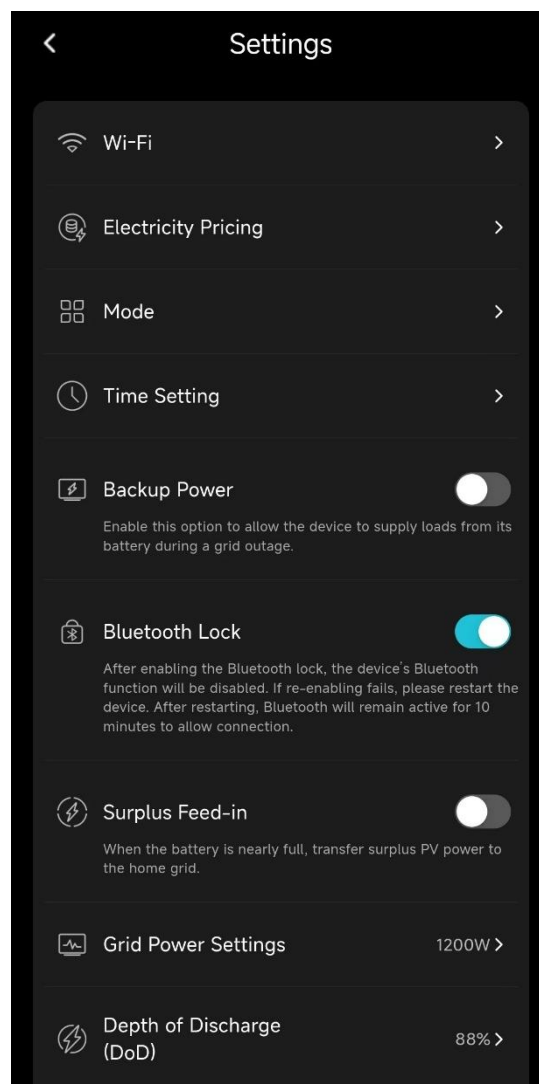
Turn on this switch to power your household loads without grid input.



5. Bluetooth Lock

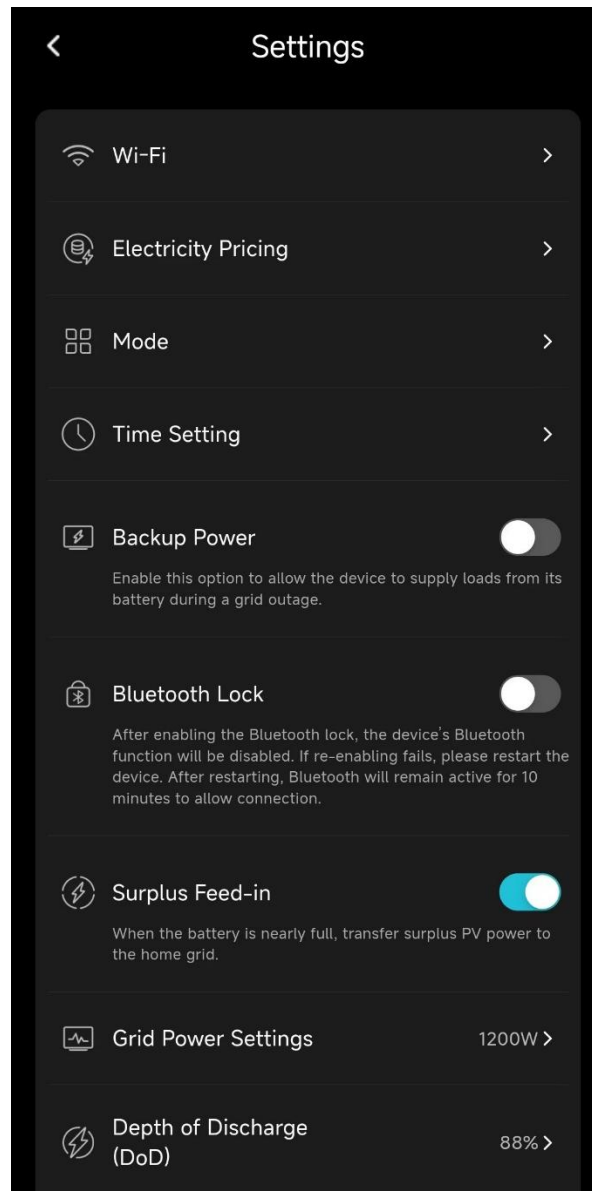
When enabled, the Bluetooth function of your device will be disabled.

Note: If re-enabling this feature fails, please restart the device. Within 10 minutes after restarting, you can connect to the device via Bluetooth.



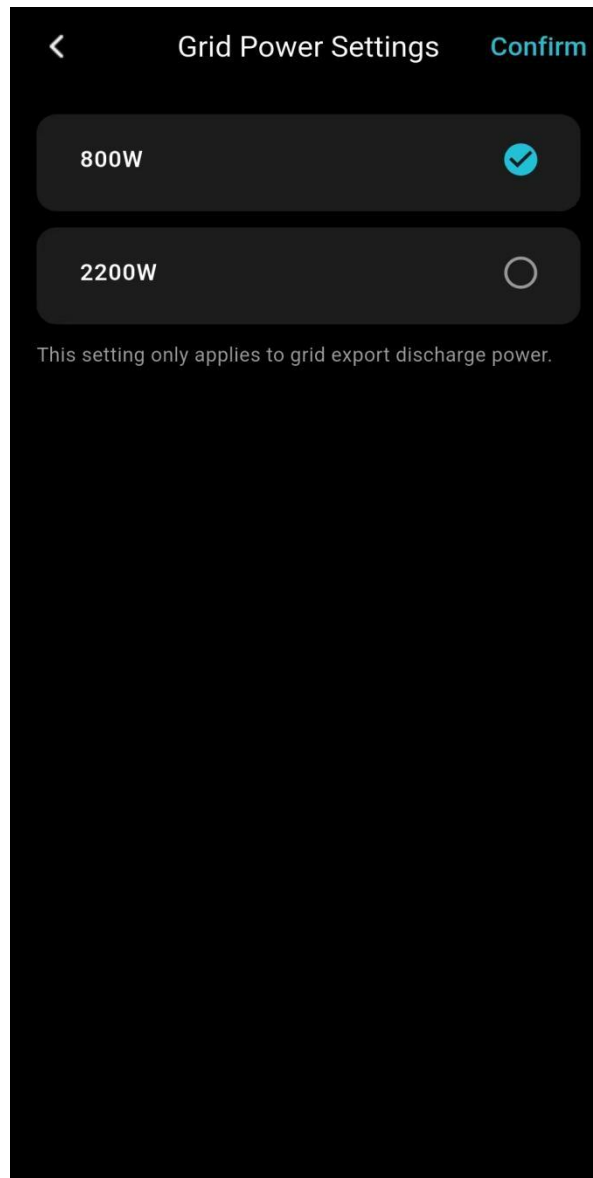
6. Surplus Feed-in

Turn on this switch to transfer surplus power generated by your PV to the power grid when the battery is fully charged.



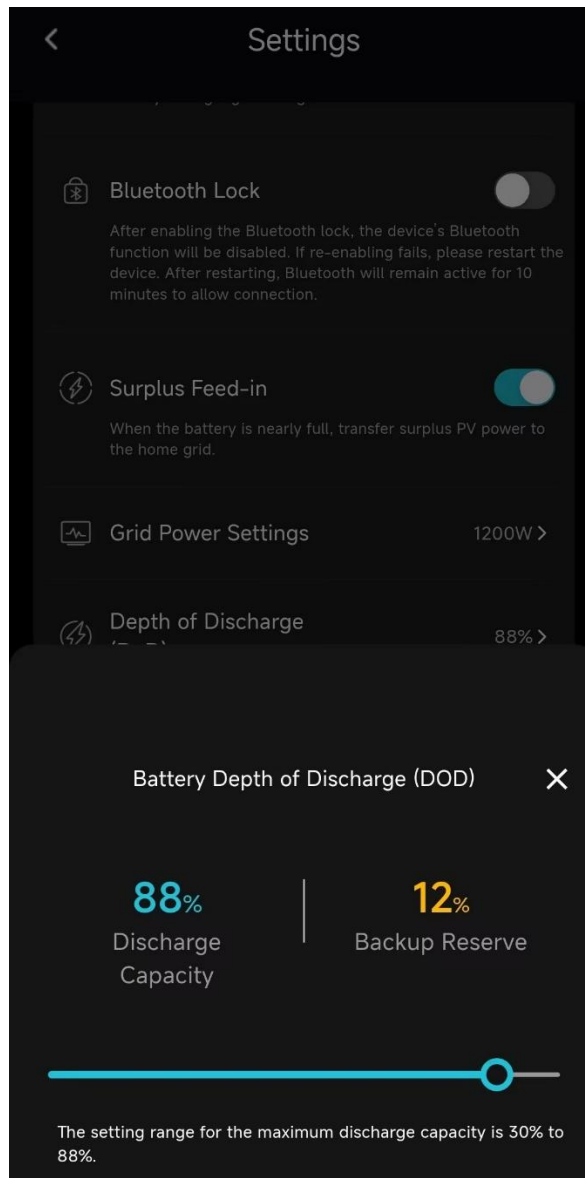
7. Grid Power Configuration

Two options available — **800W** or **2200W**. The selected value determines the maximum discharge power limit.



8. DoD (Depth of Discharge)

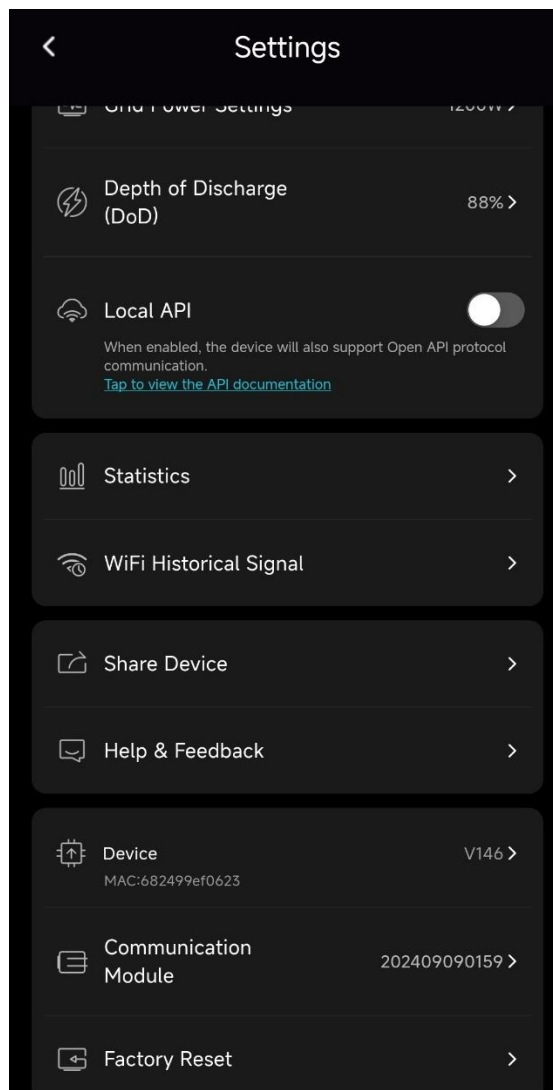
This feature allows you to adjust the device's maximum discharge capacity. The adjustable range is 30% to 88%.



9. Local API

After enabling this feature, the device will support communication through the Open API port.

Once enabled, you will need to configure the port settings. You can find the API documentation below.



10. Wi-Fi Signal History

This feature allows you to view the historical Wi-Fi signal strength of the device.

- Green: Strong signal
- Red: Medium signal
- Yellow: Weakest signal

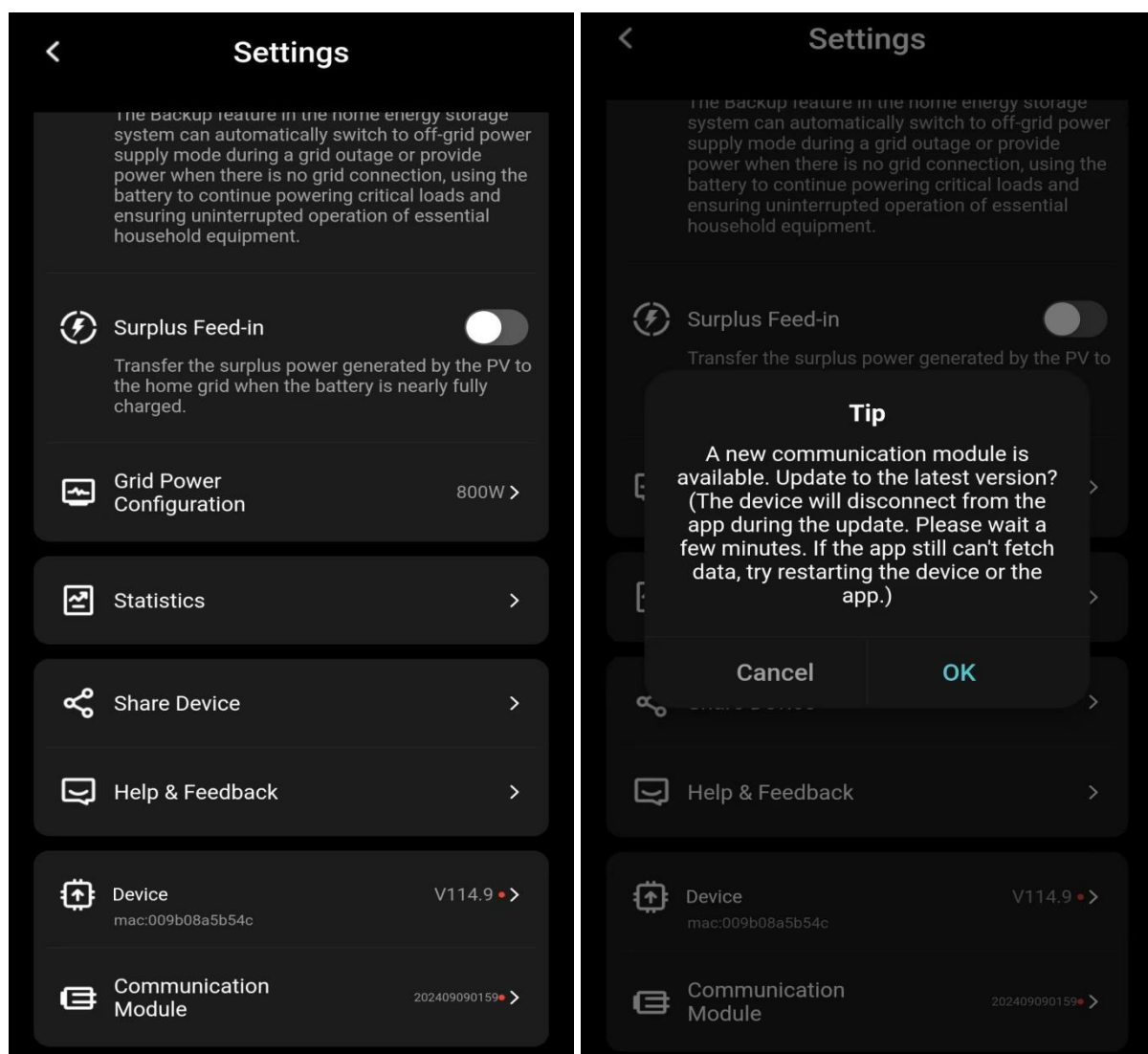


11. Firmware Upgrade & Communication Module

Upgrade

When a new version is available, a red dot prompt will appear. Tap Upgrade then wait for upgrade to complete


- **Firmware Upgrade:** Requires Bluetooth connection.
- **Communication Module Upgrade:** Can be performed via Bluetooth or Wi-Fi




12. Device Sharing


- **View Only:** Invited user can view device status only.
- **Controllable:** Invited user can view and control device operations.

Share Device




MST_VNSD_b54c
VNSD-0

 Please enter the sharer's email

 Read-Only

Read-Only

Controllable

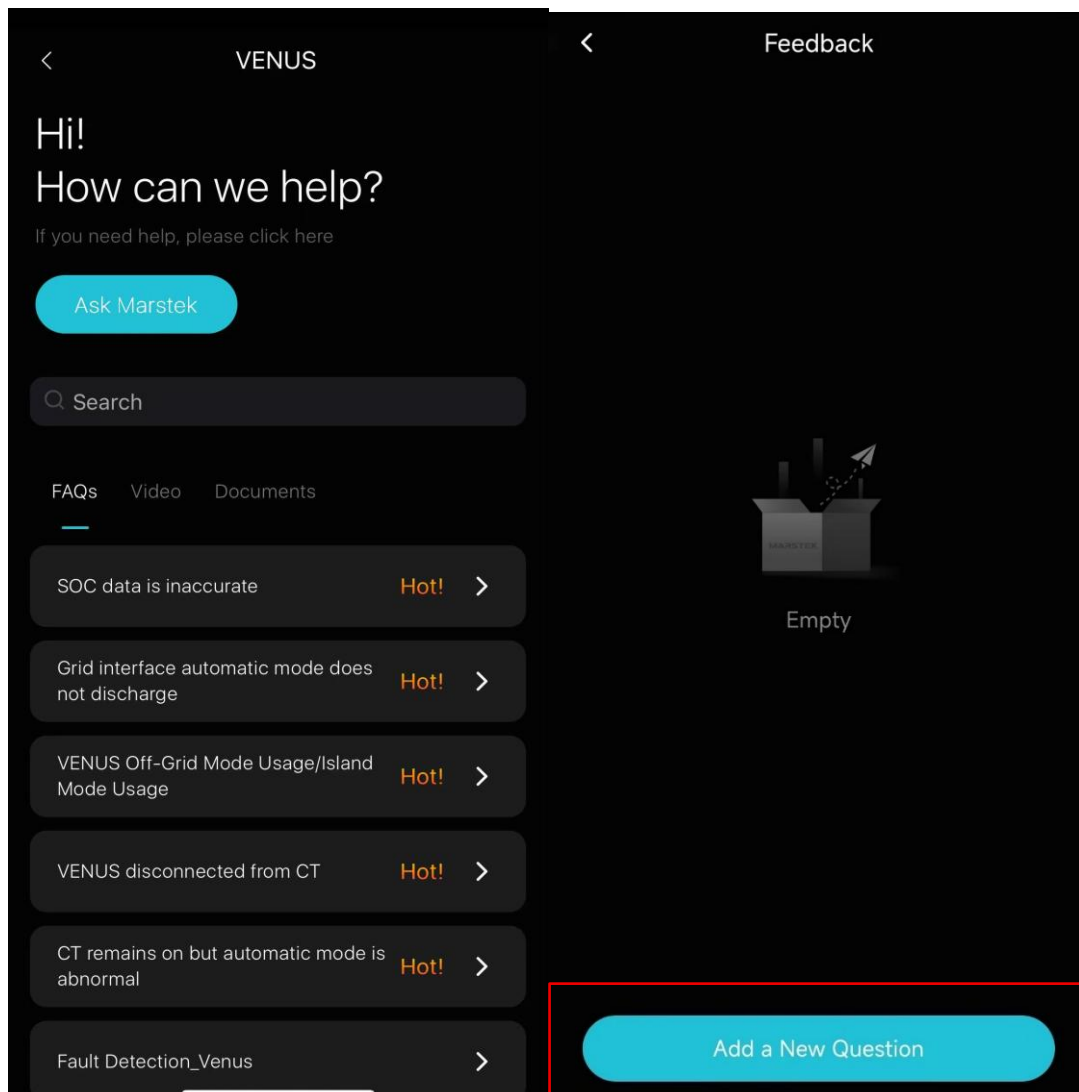


Share Now

13. Help & Feedback

Here you can access support videos, documents, and FAQs. You can also contact the support team by using the question submission feature.

- After clicking **Ask Marstek**, tap **Add your question**, choose the question type, enter a title and description, and optionally attach images or videos to help explain your issue. Click **Confirm** to submit.



< New Question

Select Question Type >

Question Title

Please describe the problem you are experiencing in detail

Add Attachments

+

Only supports png, jpg, and MP4 formats

Confirm

< Select Question Type

Need help with Product

Upgrade ☐

General Inquiries ☐

Troubleshooting or Serious Problem ☐

Return and Exchanges

Return Exchanges ☐

Pre-Sales Questions

Pre-Sales ☐

Suggestion or Feedback

Suggestion Feedback ☐

14. Factory Reset

- **Reset and Clear All Data:** Clears cumulative energy data.
- **Reset and Keep Data:** Retains cumulative energy data.

