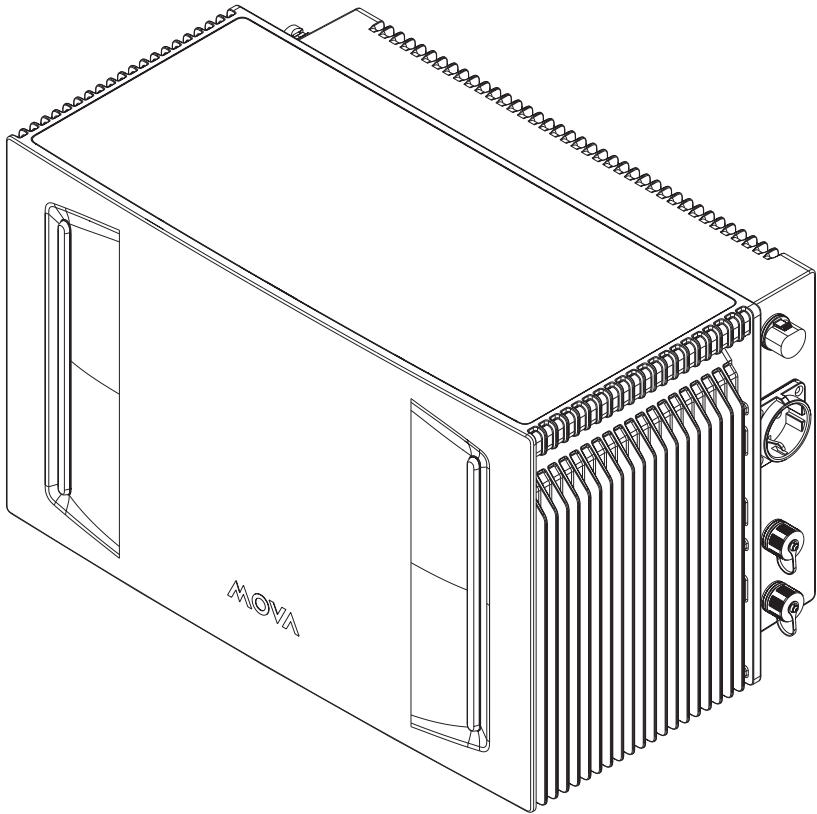


MOVA



LumeGret A4000 APP Instruction Manual

The MOVHome App allows you to monitor and manage your LumeGret system easily. Please note that the user interface images displayed are for illustration purposes and may differ from your actual view based on the software version.

Download the MOVHome App

Scan the QR code or search for the MOVHome app in your app store to download it. Then, register an account and log in.



Scan to download
the MOVHome APP



Download on the
App Store



GET IT ON
Google Play

Search for the MOVHome App
in your App store to download it.

Sign Up/Sign In

Sign in or create an account. Please note that the country or region MUST match where you live. An incorrect country or region may cause the device connection to fail.

System Setup Overview:

1

Set Up the A4000

2

Set Up the Smart Meter

3

Create an Energy System

4

Setting up the Energy System

5

Start Saving on Energy Costs

1. Set Up the A4000

■ Connect LumeGret A4000 to Network

⚠ Note:

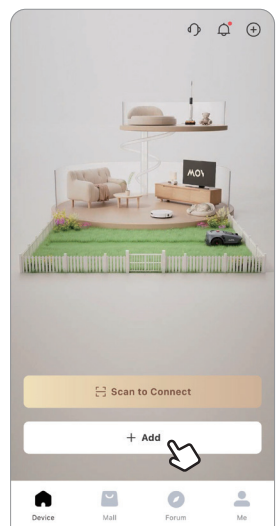
- Please ensure that all devices added to the energy system are connected to the same Wi-Fi network.
- MOVA Energy Storage System and Smart Meter communicate using the UDP protocol. Please do not disable UDP-related communication settings on your router.

LumeGret A4000 enters networking mode automatically when powered on or by pressing the power button three times in a row.

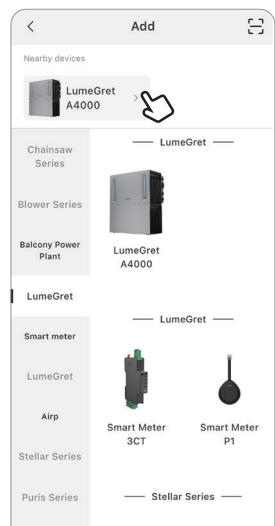
Scan the QR code or tap Add to bind new devices and complete the network connection.

If you encounter connection issues, try the following:

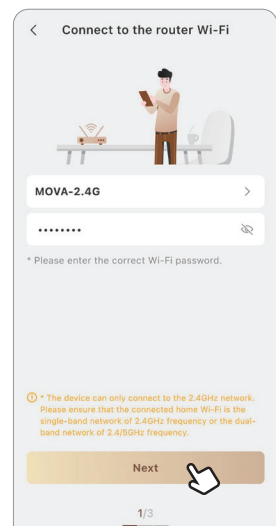
- Confirm that your Wi-Fi router is working normally.
- Confirm the Wi-Fi network is operating on the 2.4GHz band.
- Move your router closer to the device.
- Verify that the Wi-Fi password is correct.



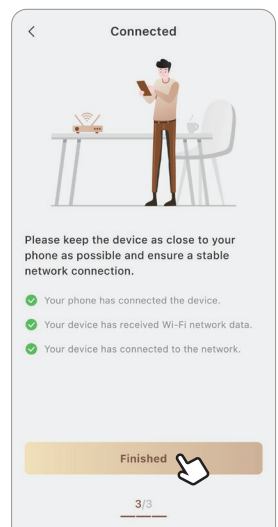
Step 1



Step 2



Step 3



Step 4



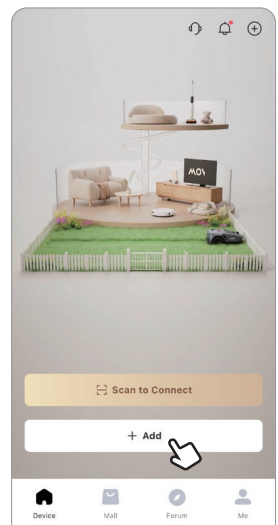
Step 5

2. Set Up the Smart Meter

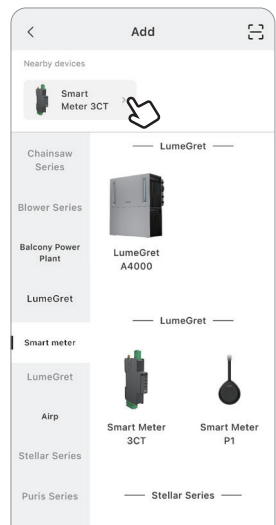
Add Smart Meter 3CT

LumeGret Smart Meter enters networking mode automatically when powered on or when you press and hold the button for 3 seconds.

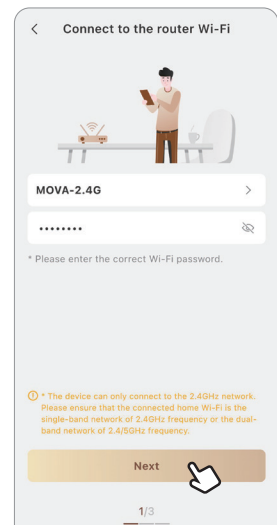
Scan the QR code or tap Add to bind new devices and complete the network connection.



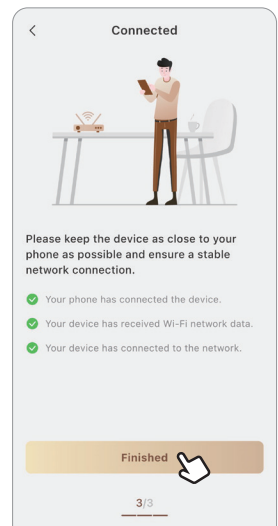
Step 1



Step 2



Step 3



Step 4

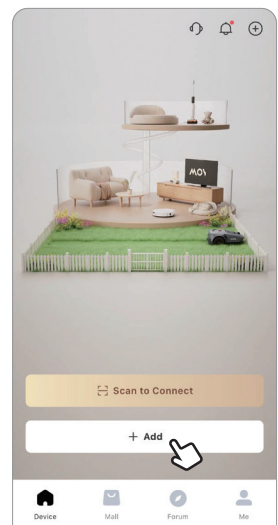


Step 5

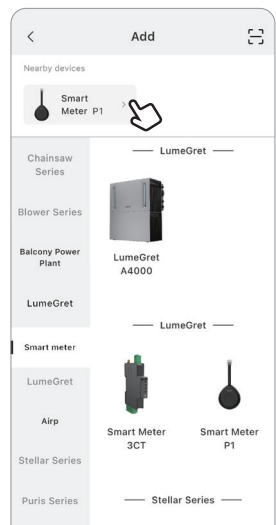
Add P1 Meter

The P1 meter enters networking mode automatically when powered on or when you press and hold the button for 3 seconds.

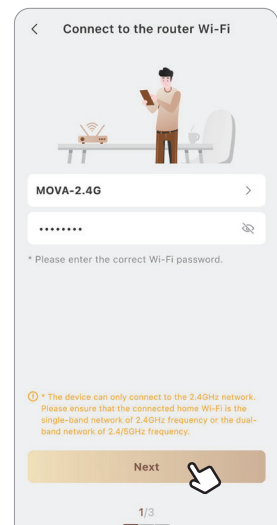
Scan the QR code or tap Add to bind new devices and complete the network connection.



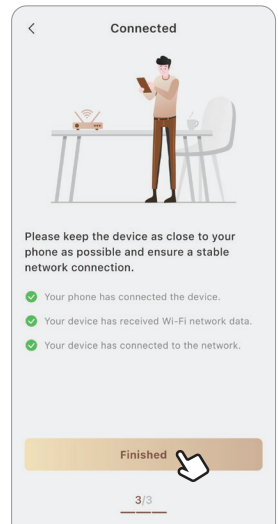
Step 1



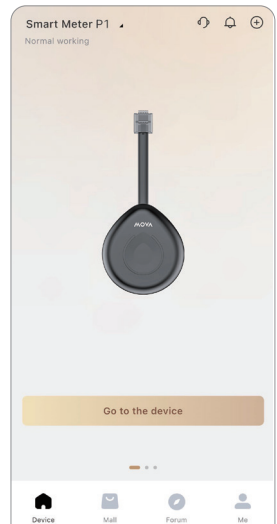
Step 2



Step 3



Step 4



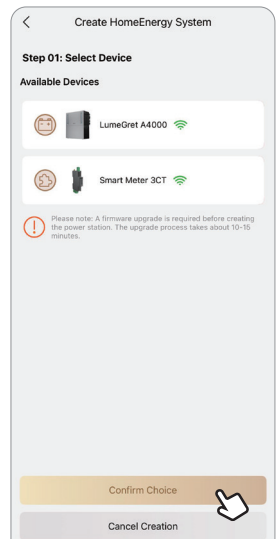
Step 5

3. Create an Energy System

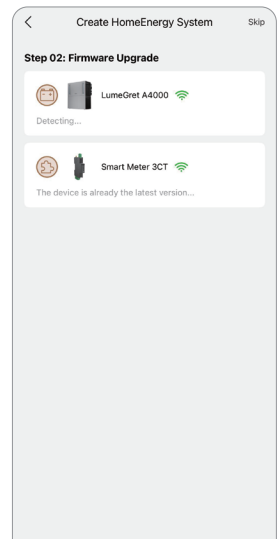
3.1 Create System



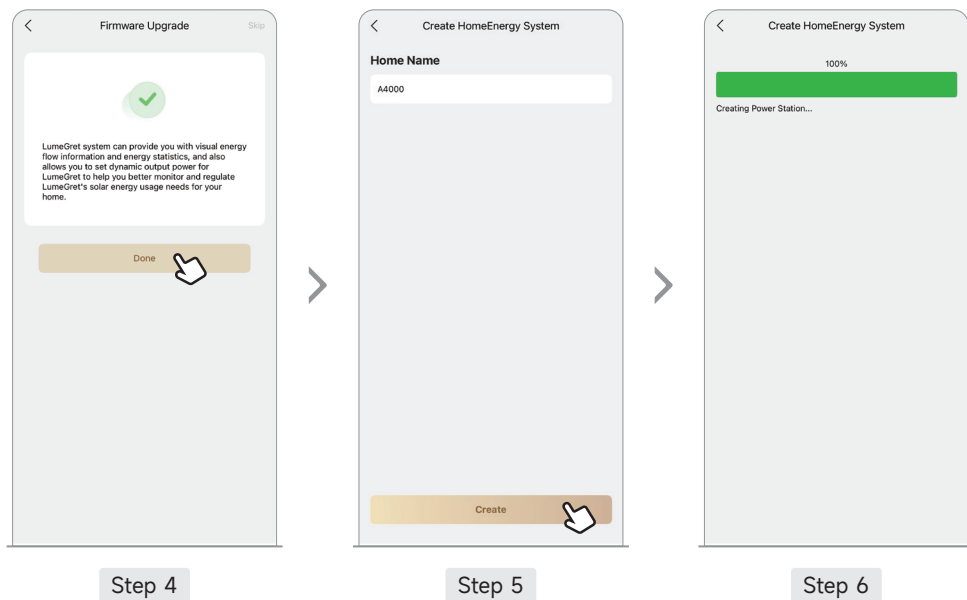
Step 1



Step 2



Step 3



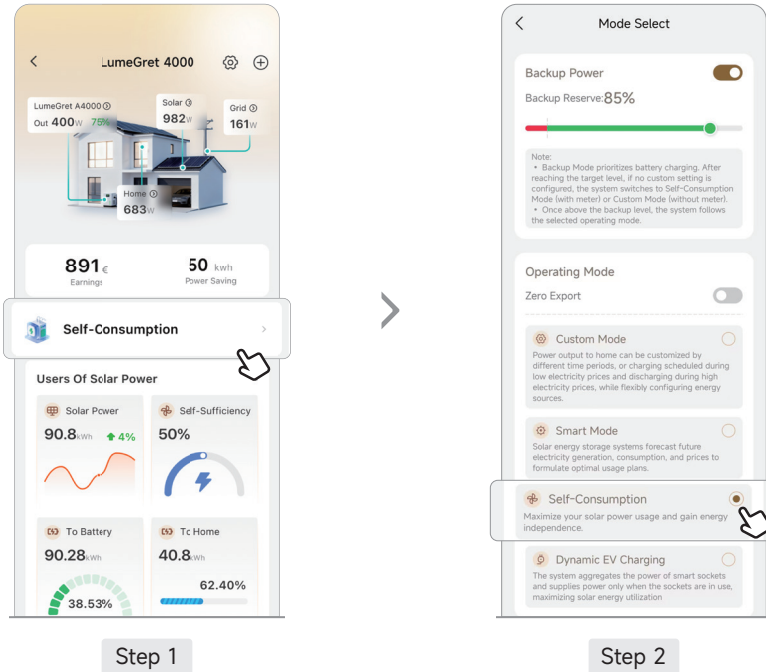
⚠ Note: Regularly upgrade the firmware to enjoy optimal performance.

- Before upgrading, ensure all devices are connected to a stable Wi-Fi network.
- The upgrade process may take a few minutes. Please be patient.
- If the upgrade fails, check if the devices are turned on and connected to Wi-Fi.
- On the device list page, swipe left to remove a device.
- At least one energy storage unit is required to create a power station system.

3.2 Access Mode Selection

Self-Consumption Mode

Self-consumption mode maximizes your use of solar power and minimizes reliance on the grid. In this mode, the Smart Meter will continuously monitor power demand, and the LumeGret A4000 will dynamically adjust the power output or storage.



⚠ Note:

- Self-consumption mode requires a Smart Meter.
- If the Smart Meter goes offline or malfunctions:
 - * Zero Export is turned on. The output power supplied to the household will automatically be reduced to 0 W to prevent any power from being fed back into the grid.
 - * Zero Export is turned off. The LumeGret system will automatically switch to custom mode, outputting 100W power by default, until the Smart Meter resumes normal operation.

Custom Mode

Customize power output based on your specific needs throughout the day. In this mode, you can set a 24/7 schedule for photovoltaic consumption and storage for the LumeGret system. The system will power your home loads according to the schedule you set.

How to Set Up:

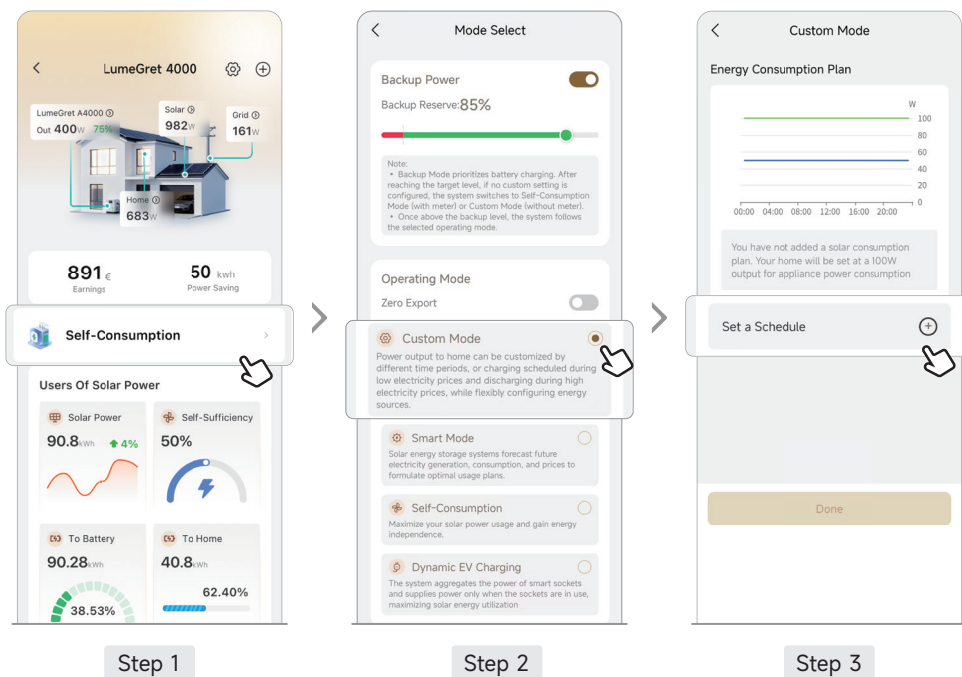
- Select custom mode
- Add a power plan
- Set the operating time period
- Set the charging or discharging behavior
- Set the output power
- Save and enable this plan
- Confirm all schedules

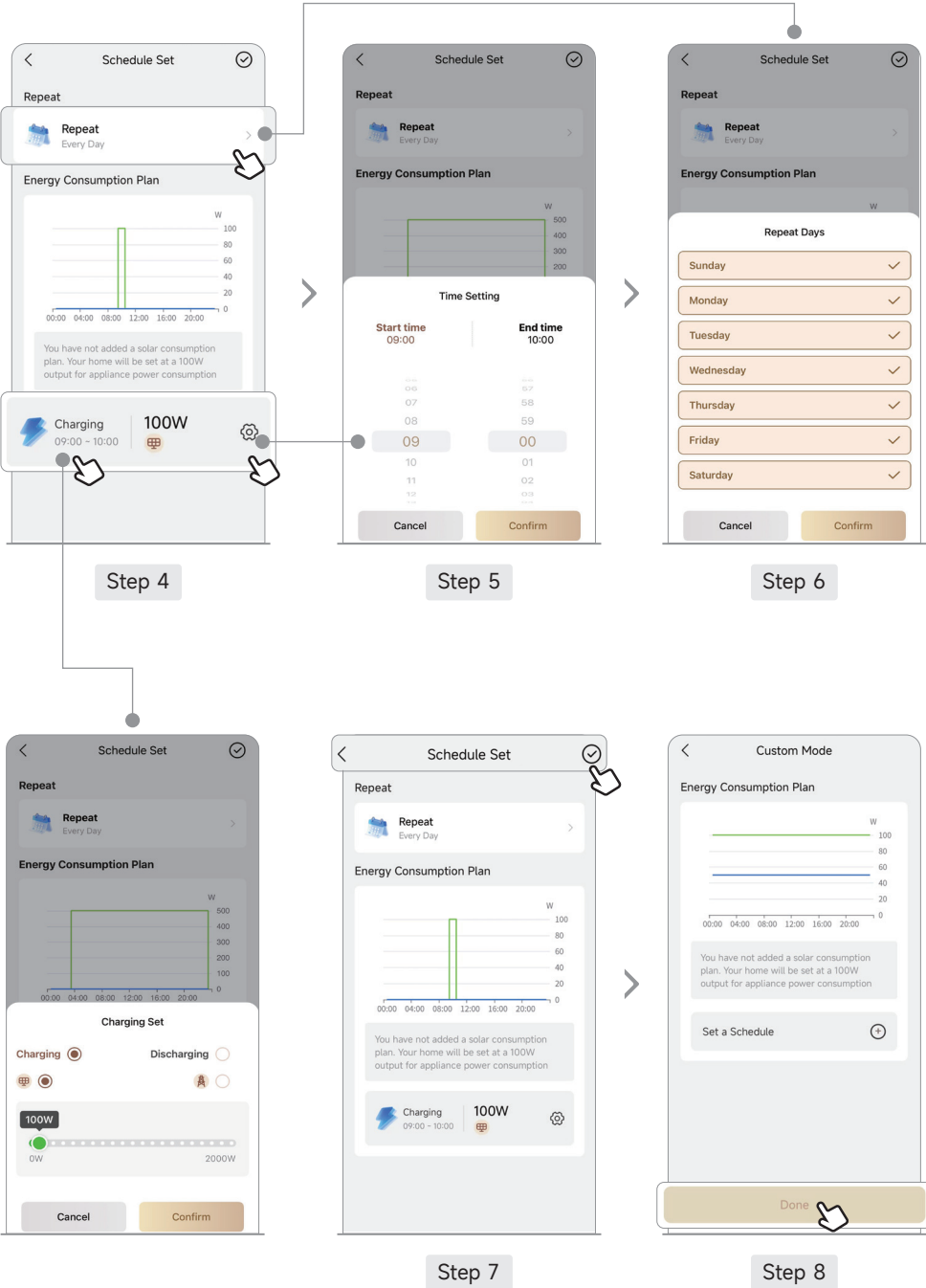
Available Settings:

- AC output power: 0–800 W
- AC charging power: 0–2000 W
- Up to 6 time periods can be set per day
- Time periods cannot overlap
- Daily repeating schedules are supported

Note:

- The default AC output power is 100 W.
- When Zero-Export mode is enabled without a Smart Meter, AC output will be disabled.
- With a Smart Meter installed, the system can automatically adjust output power based on household consumption.



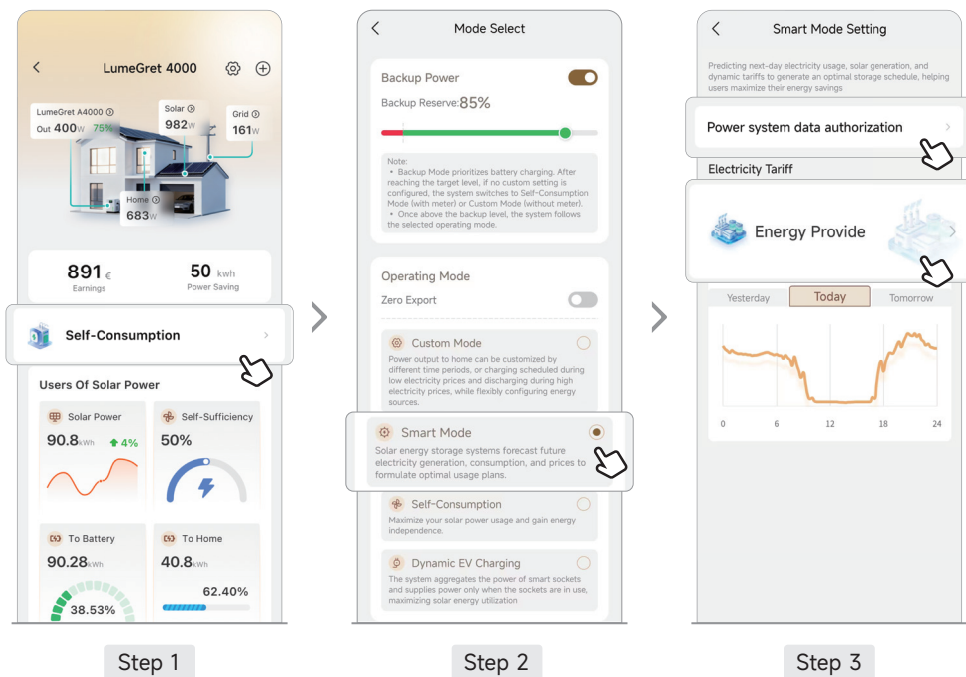


Smart Mode

Smart Mode automatically optimizes energy usage based on solar generation and electricity prices.

How to Set Up:

- Enable Backup Mode
- Authorize access to your power station information
- Fetch your current electricity price
- Set target electricity prices for different Smart Mode strategies
- Select the devices that will participate in Smart Scheduling
- Select the devices that can use surplus solar energy
- Confirm and activate Smart Mode



Backup Power

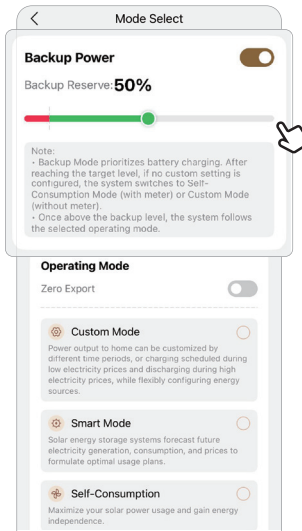
The energy storage system must remain online. You can enable the backup power settings and adjust your backup power reserve capacity.

How to Set Up:

- Enable Backup Mode.
- Set the Backup Reserve Level (5%–100%).

Note:

- The default backup reserve level is 50%.
- When the battery reaches the reserve level, normal discharging will stop.
- Reserved battery power will be used during a power outage.
- If backup power is enabled, the SOC can be set between the discharge lower limit and the charging upper limit.



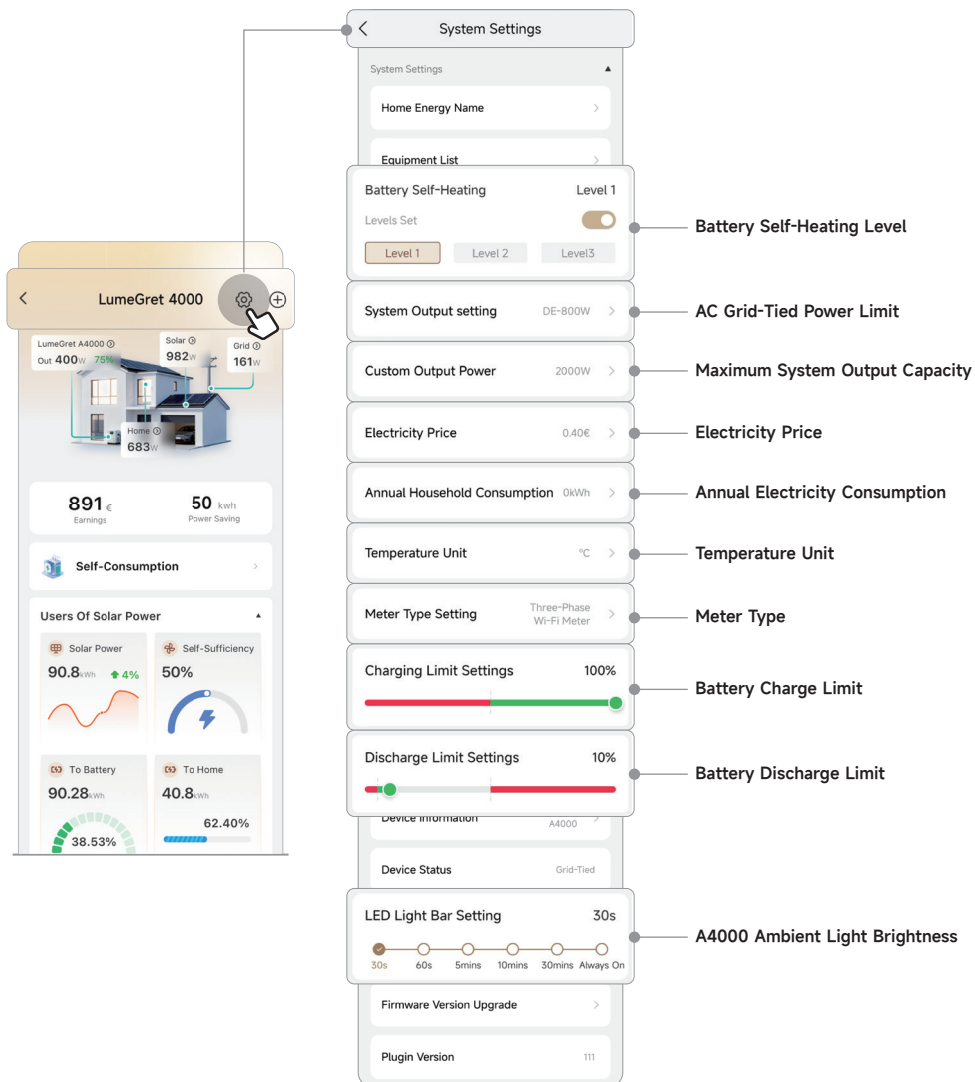
4. Setting up the Energy System

4.1 General Settings

- **Battery Self-Heating Level:** Adjusts the battery self-heating rate. Level 1 provides the slowest heating speed.
- **AC Grid-Tied Power Limit:** Set the maximum AC export power to the grid.
- **Maximum System Output Capacity:** Customize the maximum output power of the system.
- **Electricity Price:** Set your current household electricity rate.
- **Annual Electricity Consumption:** Set your household's annual electricity consumption.
- **Temperature Unit:** Set the temperature unit for the power station system.
- **Meter Type:** Select the meter type.
- **Battery Charge Limit:** Set the upper charging SOC limit.
- **Battery Discharge Limit:** Set the lower discharging SOC limit.
- **A4000 Ambient Light Brightness:** Adjust the brightness of the A4000 ambient light.

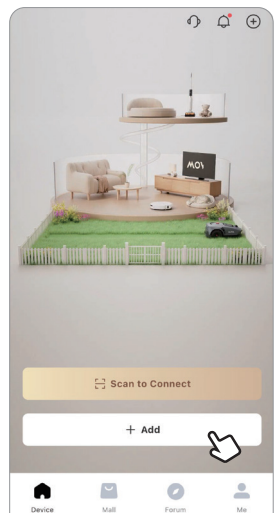
Note:

- Maximum System Output Capacity should be configured according to local regulations and the installation scenario. For plug-and-play installations, it is recommended not to exceed the permitted power limit.
- After changing the A4000 Ambient Light Brightness setting, press the power button once to wake up the device and apply the new setting.

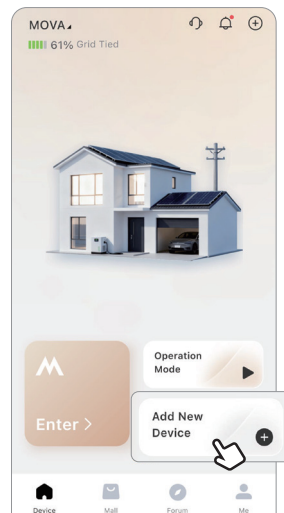


4.2 Add New Device to Power Station

- First, pair the device you want to add to the network.
- After pairing is complete, tap **Add** on the Power Station card to add the device to the system.



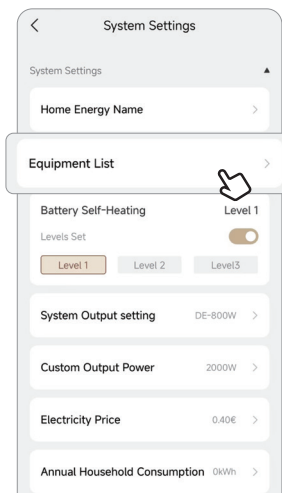
Step 1



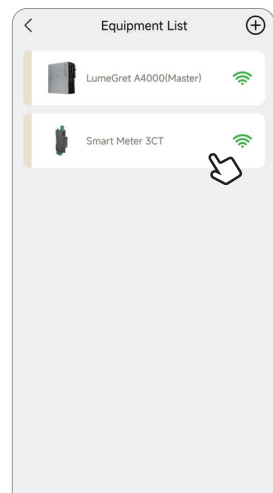
Step 2

4.3 Remove Device from Power Station

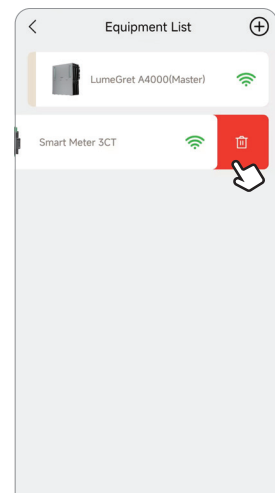
Open the Settings page. On the Device List page, swipe left on a device to remove it.



Step 1



Step 2



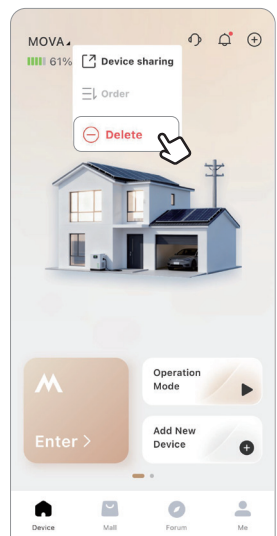
Step 3

⚠ Note:

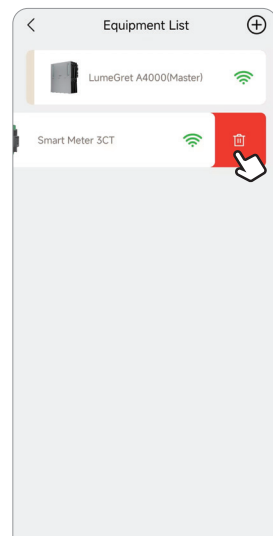
- A power station system must contain at least one energy storage unit. If all energy storage units are removed, the power station will be automatically dissolved and reverted to individual devices.
- When a device is removed from the Power Station device list, it will return to the individual device card page.

4.4 Delete Power System

- **Method 1:** Dissolve the power station from the Power Station card page. This will also remove all devices from the power station.
- **Method 2:** Remove all energy storage units from the Settings page. This only removes the devices from the power station system and does not delete their network configuration or pairing information.



Method 1



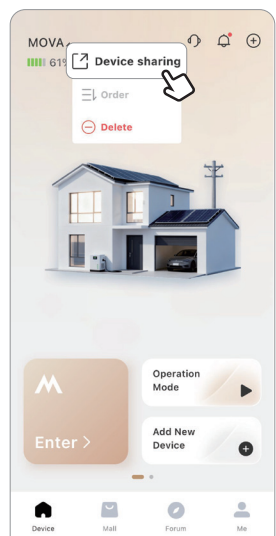
Method 2

4.5 Share Power Station

On the Power Station home page, you can share the power station with family members using their MOVA ID or registered email address.

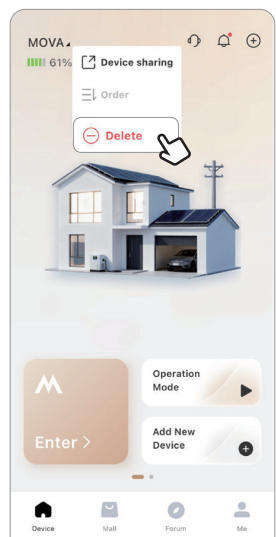
⚠ Note:

Shared users can view and control the power station but cannot perform firmware upgrades or add new devices to the power station.



4.6 Unbind Individual Device

Go to the corresponding device page and select remove device to unbind the device and clear its network pairing.

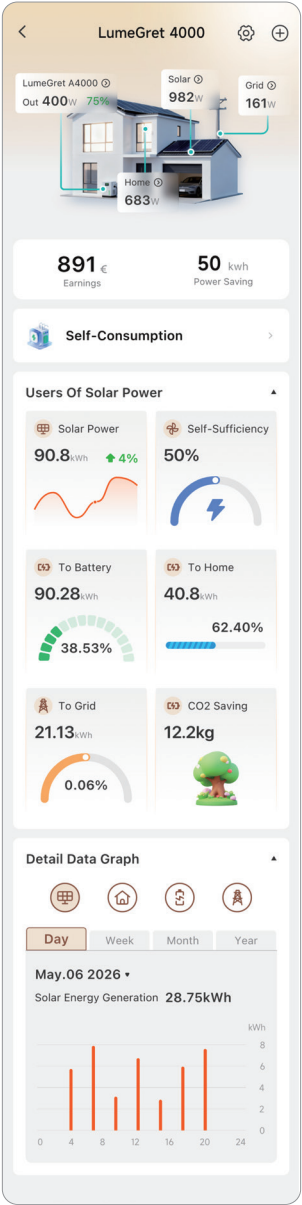


Note:

If you unbind all energy storage units in the power station system. The power station will be automatically dissolved.

5. Start Saving on Energy Costs

Welcome to the LumeGret A4000 App. This guide will help you set up and use your energy storage system.



MOVA



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Monday - Sunday
9:00 - 18:00



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