EP2000

Energy Storage System

APP User Manual V1.0

BLUETTI

1. Getting Started

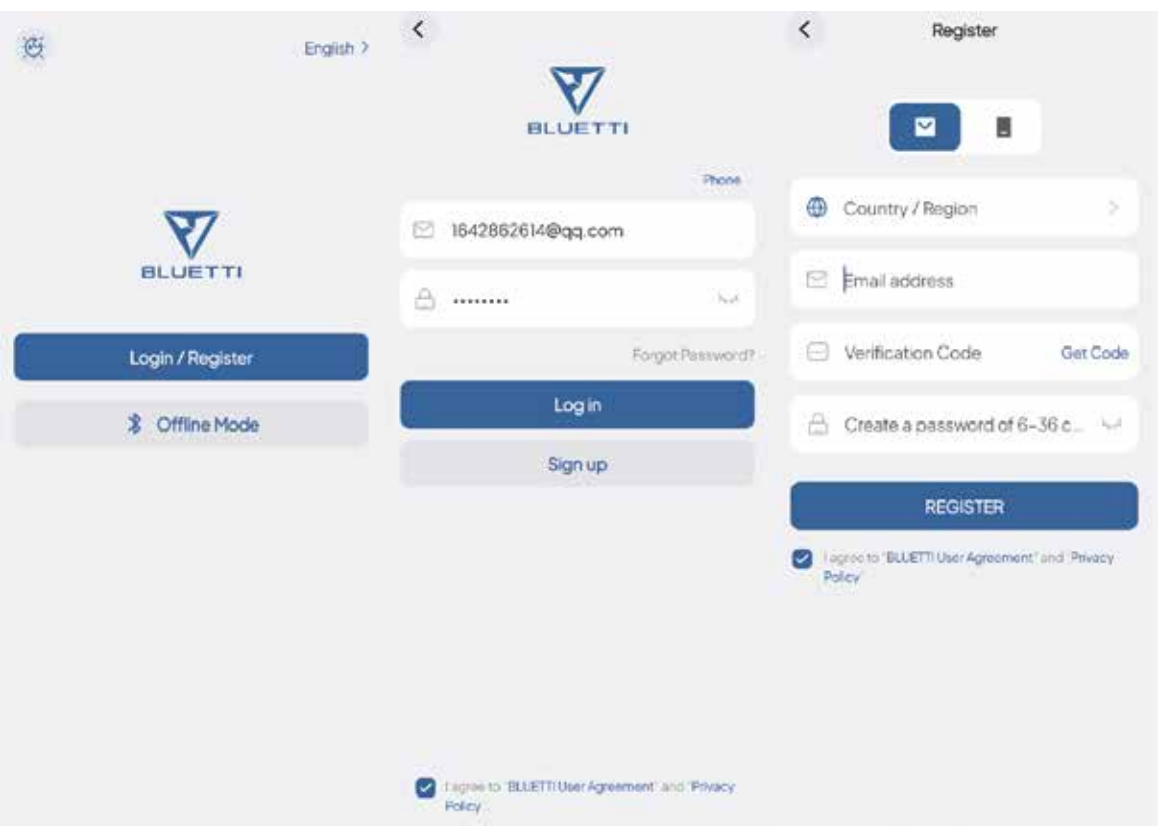
1.1. Download the App

Scan the QR code below to download the BLUETTI App, or search for "BLUETTI" in the App Store or Google Play.

Supported operating systems: iOS 11.0 or above, Android 8.0 or above.

1.2. Sign up

1. Open the App and tap **Login/Register**.
2. Tap **Sign up** and enter your email address.
3. Enter the verification code and tick the checkbox.
4. Tap **Register** to create your BLUETTI account.



Note: If you don't receive the email with verification code, check your Junk or Spam folder. If you still can't find the email, try "Get Code" again as there may be a delay. If the code is still unavailable, please contact BLUETTI Customer Service for assistance.

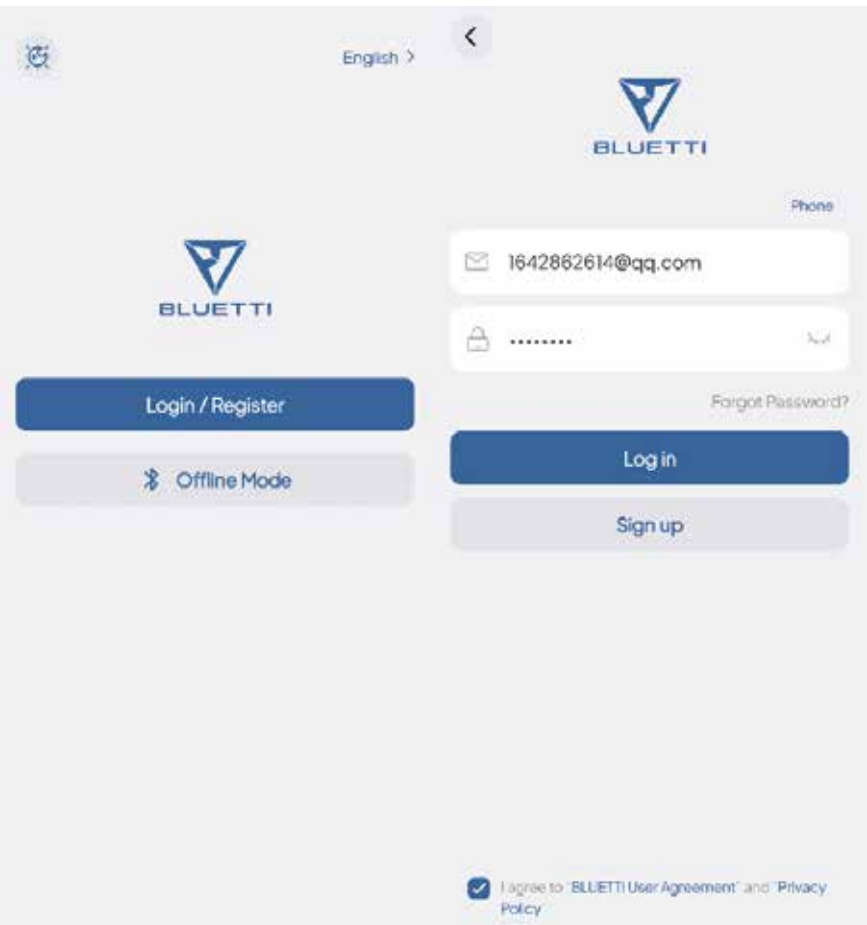
1.3.Log in

1.Open the App and tap **Login/Register.**

2.Enter your account details.

3.Tick the checkbox and **Log in.**

Note: If you forget your password, tap **Forgot Password?** to reset it.

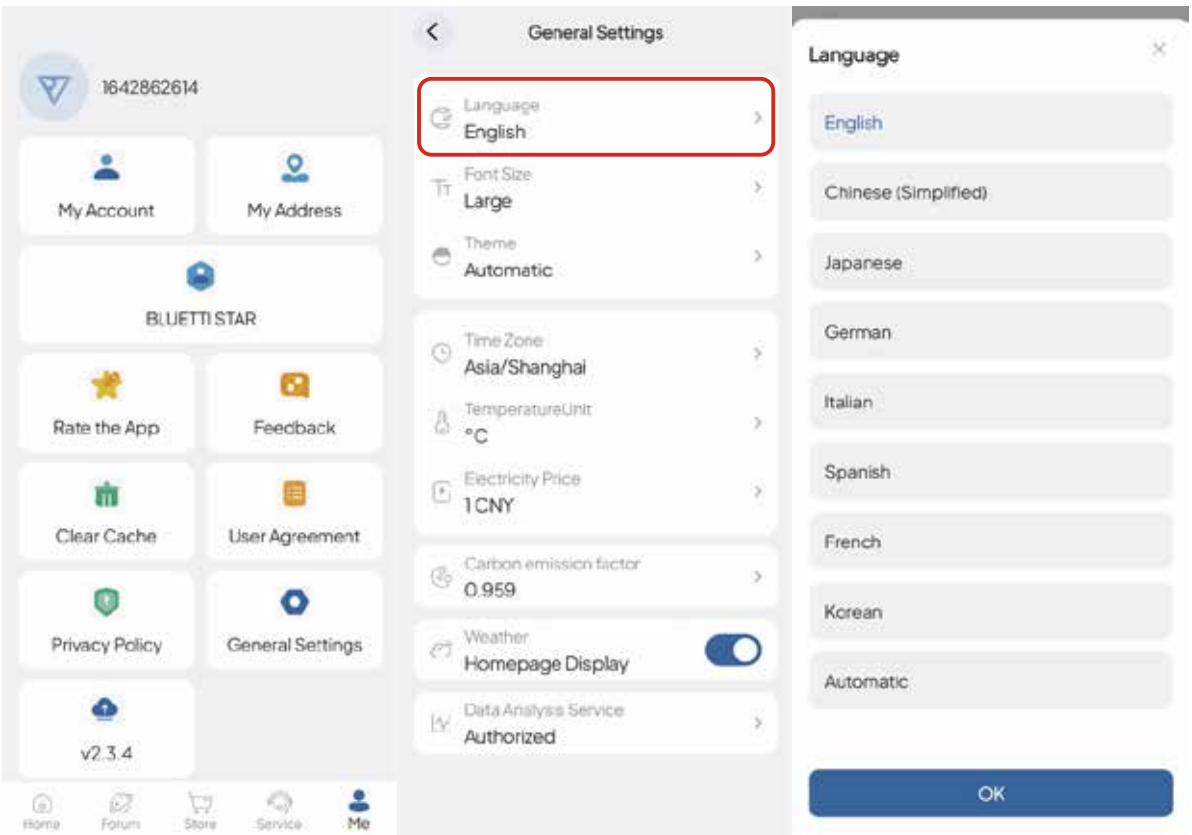


1.4. App Languages

1.Go to the **Me** page and tap **General Settings.**

2.Go to **General Settings,** choose your desired language, and tap **OK** to save the changes.

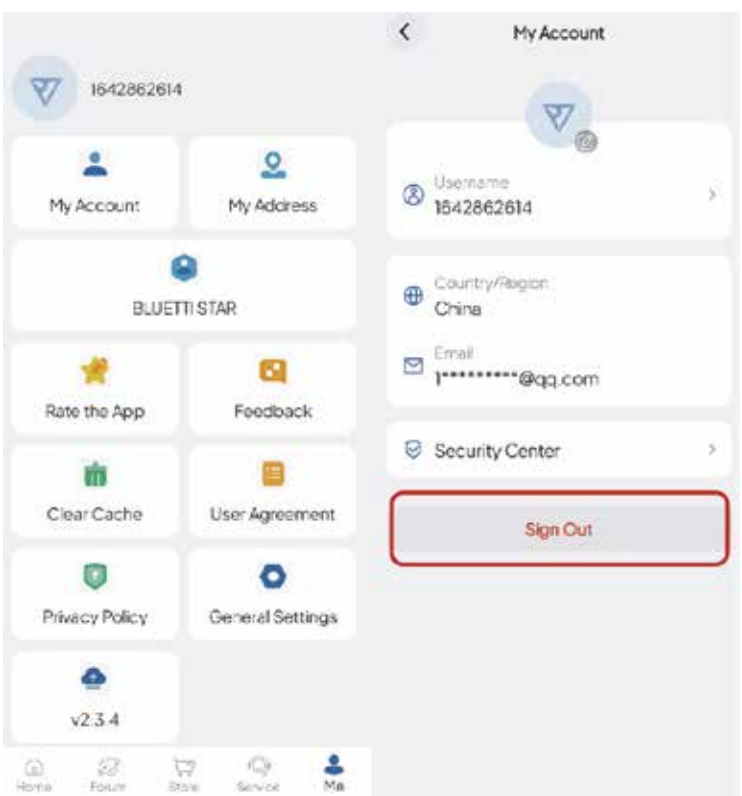
Note: By default, the App adapts to the language settings of your mobile device's operating system.



1.5. Exit

1.Go to the **Me** page, and tap on your avatar or **My Account.**

2.Tap **Sign Out** on the **Account** page.

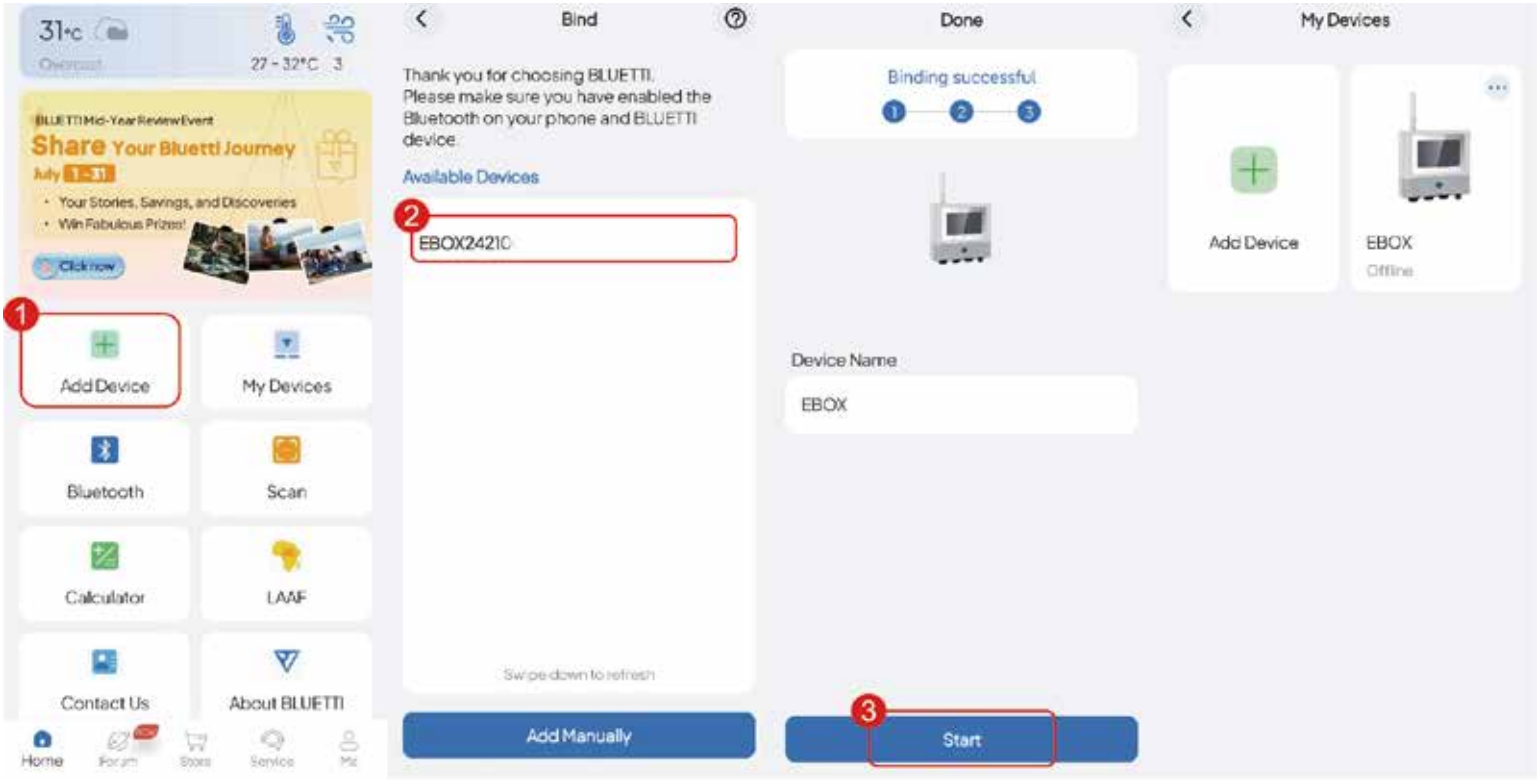


1. Binding

1.1. Bluetooth

1. Tap Add Device on the Home page.
2. On the Bind page, select your device from the Available Devices list, and tap Start to complete the binding.
3. You can view the bound devices on the My Devices page.

Note: Make sure you've enabled Bluetooth and location service (e.g. GPS) on your phone. If you can't find your device, get closer and Swipe down to refresh the list (recommended range: 5m).

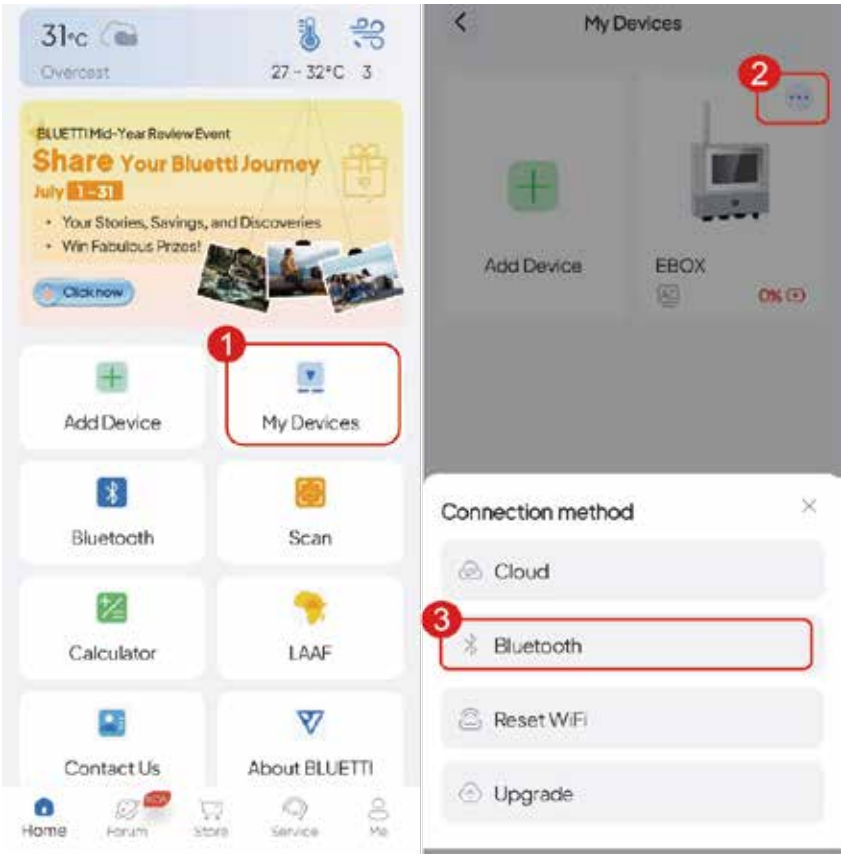


2. Connection

2.1. Connect to the device

Note: Make sure your device is powered on with Bluetooth enabled, and you've enabled Bluetooth and location service (e.g. GPS) on your phone. For a stable connection, keep your phone and device close together (recommended range: 5m). If you can't find your device, get closer and Swipe down to refresh the list.

1. Tap My Devices on the Home page.
2. Tap ••• in the upper right corner of the device you want to connect.
3. Tap Bluetooth to connect.
4. You'll be directed to the operation status page upon successful connection.



2.2. Cloud Connection

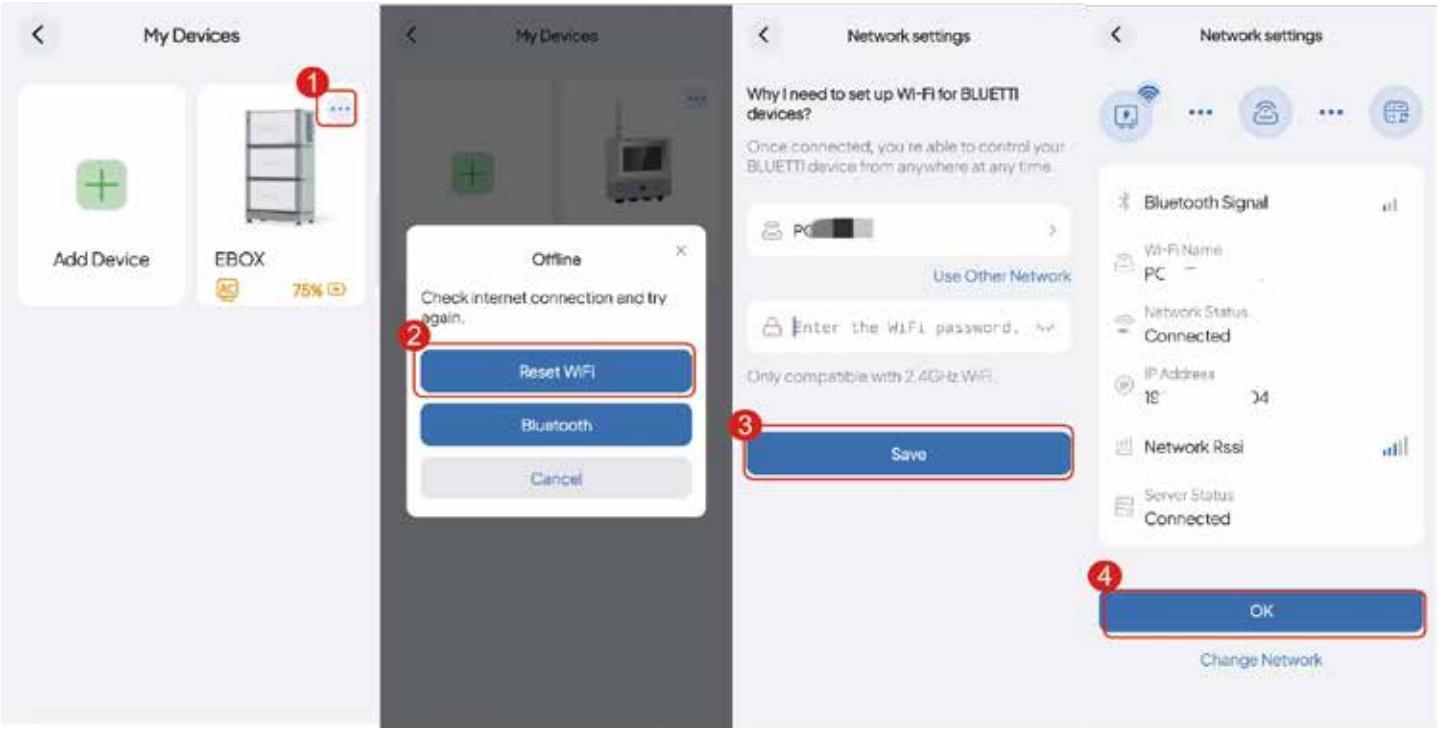
To get started, you need to configure the network first.

Note:

- Place your device within the range of an available WiFi network. Also, double-check that your mobile device has a strong and stable network signal.
- The BLUETTI products support 2.4GHz WiFi only.

If you need to change to another WiFi network,please follow the steps below:

1. Go to the My Devices page and tap ••• in the upper right corner of the device you want to connect.
2. Tap Reconfigure WiFi .
3. Fill in the related network information and SAVE it.

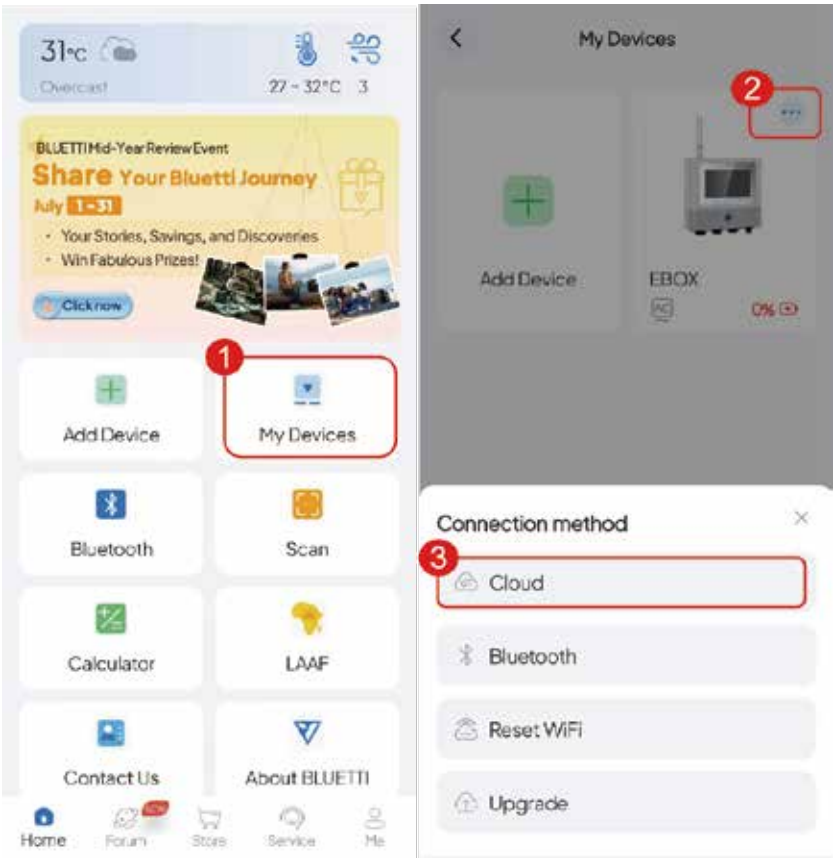


2.3. Connect to the device

Once the app is connected to the device via WiFi, you can manage your device from anywhere at any time, as long as your mobile phone has internet access and your device maintains a stable WiFi connection.

1. Go to the My Devices page, and tap ••• in the upper right corner of the device you want to connect.
2. Tap Cloud to connect.
3. The app will jump to the operation status page when the connection is successful.

Note: If you've set the default connection mode as Cloud, you can also establish a WiFi connection by directly tapping on the device image.

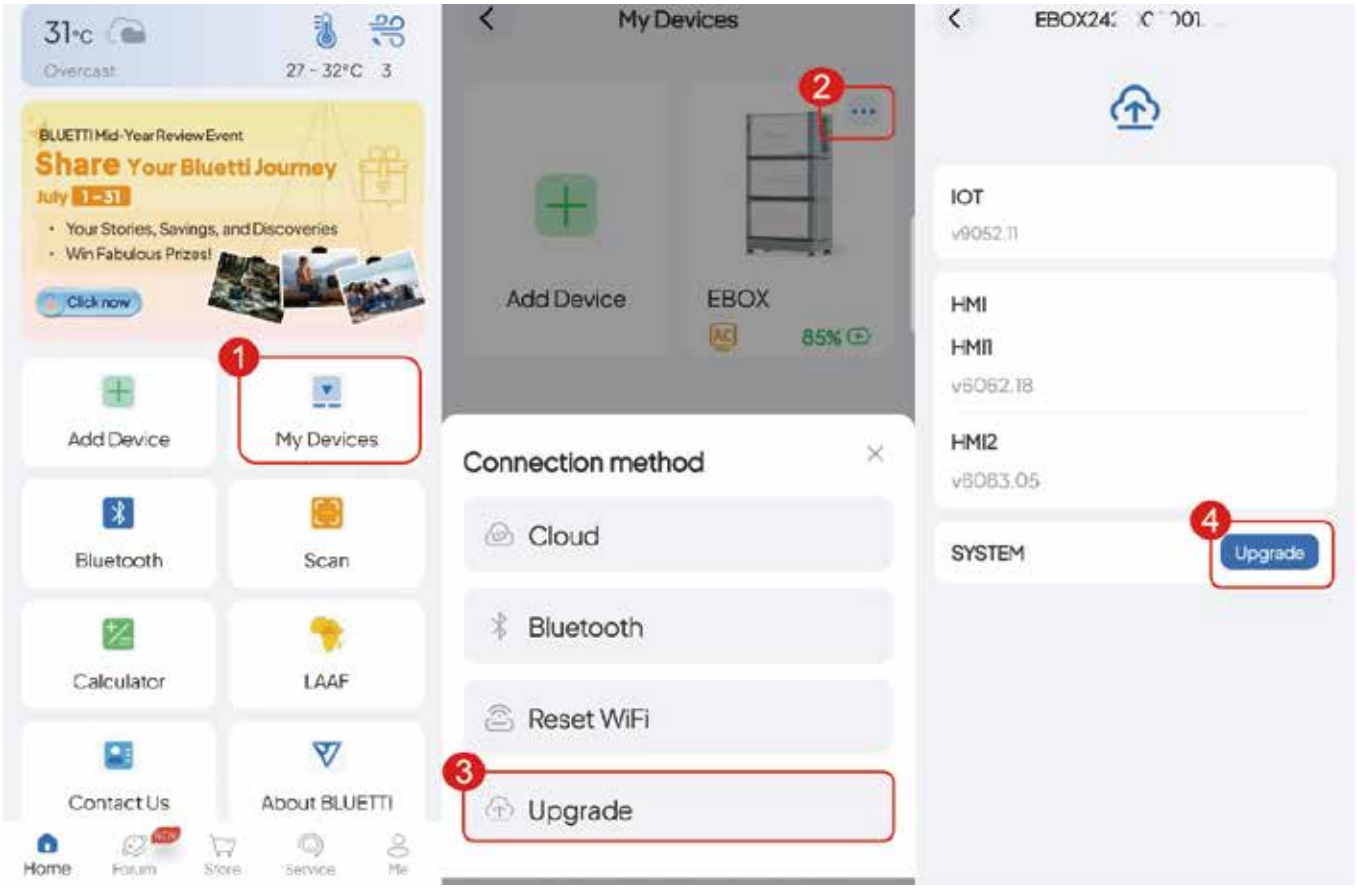


2.4. Firmware Upgrade

Note:

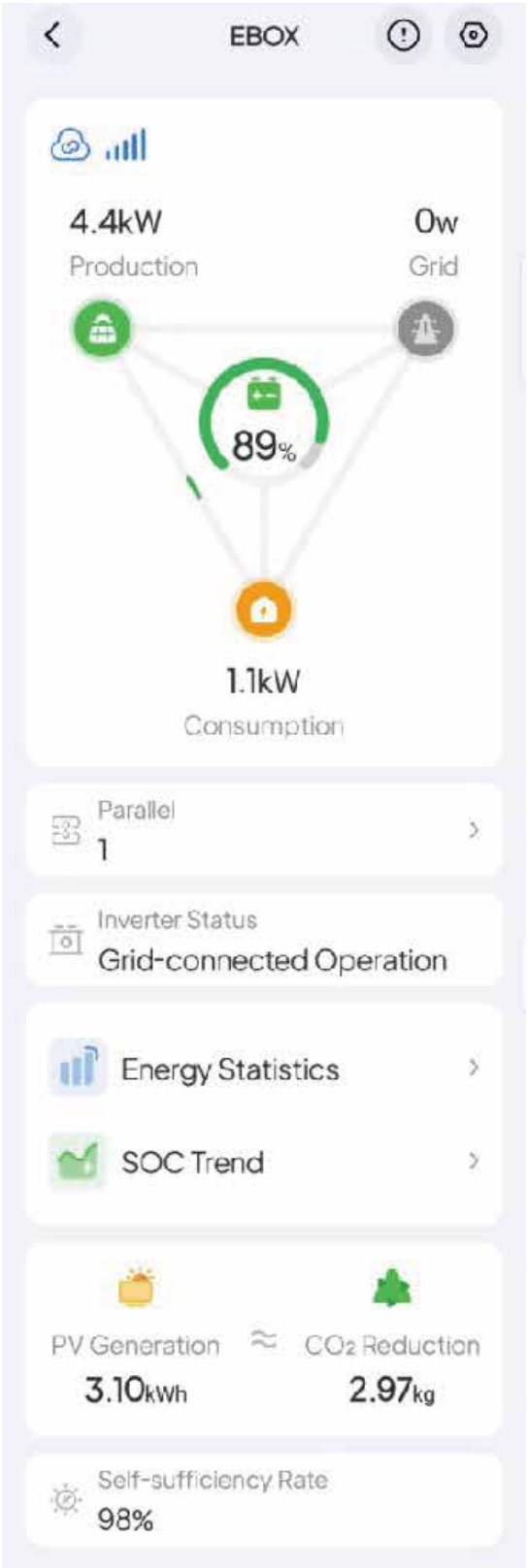
- ☒ Only available when you connect to the EP2000 ESS via Bluetooth.
- ☒ For a stable connection, keep your phone and EP2000 ESS close together (recommended range: 5m).
- ☒ During the upgrade, you cannot perform charging, discharging, or any other operations.

1. Tap My Devices on the app's Home page.
2. Tap ••• in the upper right corner of the device you want to upgrade on the My Devices page.
3. Tap Upgrade .
4. The App will jump to the Firmware Upgrade page.
5. Select the upgrade option.



3. Real-time Monitoring

3.1. Operation Status



① 

Tap to check the current alarm(s) and alarm history.

② 

Tap to check and change system settings, like System Switch, Working Modes, Device Sharing, Advanced Settings, etc.

③  / 

Bluetooth / WiFi connection successful.

④ Energy Flow Status

Please refer to Energy Flow Status for details.

⑤ Energy Statistics

Tap to view the energy data by day, month, year, or up to the current date.ls.

⑦ PV Generation & CO_2 Reduction

Check out the total solar energy generated and carbon emissions saved by the EP2000 ESS over time.

⑧ Self-sufficiency Rate

A measurement that assesses the EP2000 ESS's ability to meet energy needs without relying on the grid.

3.2. Energy Flow Status

The animation gives you a simple way to understand how energy is flowing.

53% SoC (State of Charge). It indicates the remaining battery level.

PV generation. It shows how much power the EP2000 ESS is drawing from your rooftop solar or solar panel(s). Tap to view more details.

Grid charging or feeding. It shows how much power the EP2000 ESS is drawing from or feeding back into the grid. Tap to view more details.

Load consumption. It shows how much power is supplying to your household appliance.Tap to view more details.

3.3. Energy Statistics

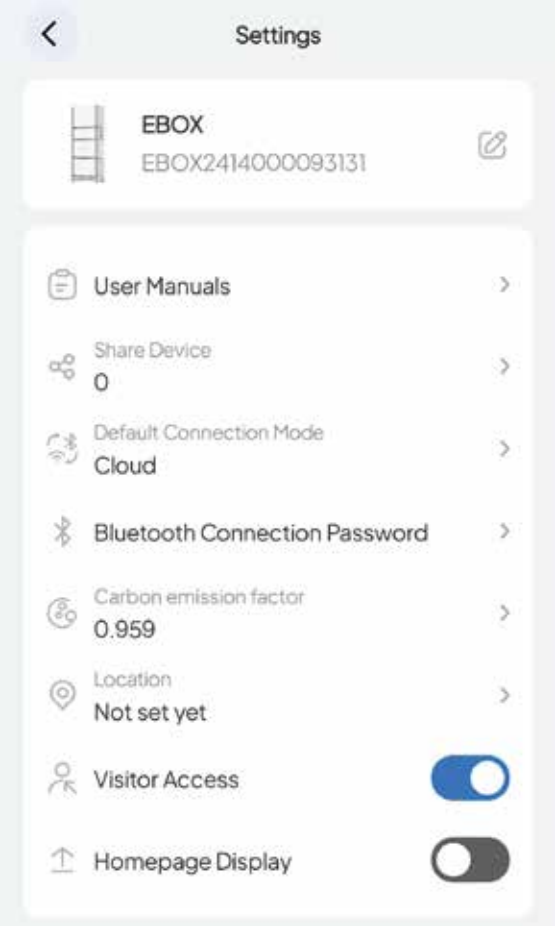
It allows you to view the PV Generation, Grid Consumption, Feed to Grid, and Load Consumption by day, month, year, or up to now.

1. Tap to view data by Day, Month, Year, and To date.
2. Tap or to go back or forth between time periods. If you want to view data for a specific time, click on the calendar icon and select your desired date.
3. Tap to zoom in on the chart to view it full screen.
4. Tap on the chart to view detailed data for a specific time.
5. Swipe left or right on the chart to view the data for a specific timestamp.
6. Tap to download data.

4. Device Management

4.1. Basic Settings

After connecting the device, on the operation status page, tap to access the Setting page.



- Device Name: Tap to modify.
- User Manuals: Product related information
- Share Device: Tap to share your EP2000 ESS.
- Default Connection Mode: To modify the device's default connection mode. Once saved, whenever you tap on the device image on the My Devices page, it'll automatically connect using the chosen mode.
- Bluetooth Connection Password: Set a 6-digit password for Bluetooth connections with other mobile devices.

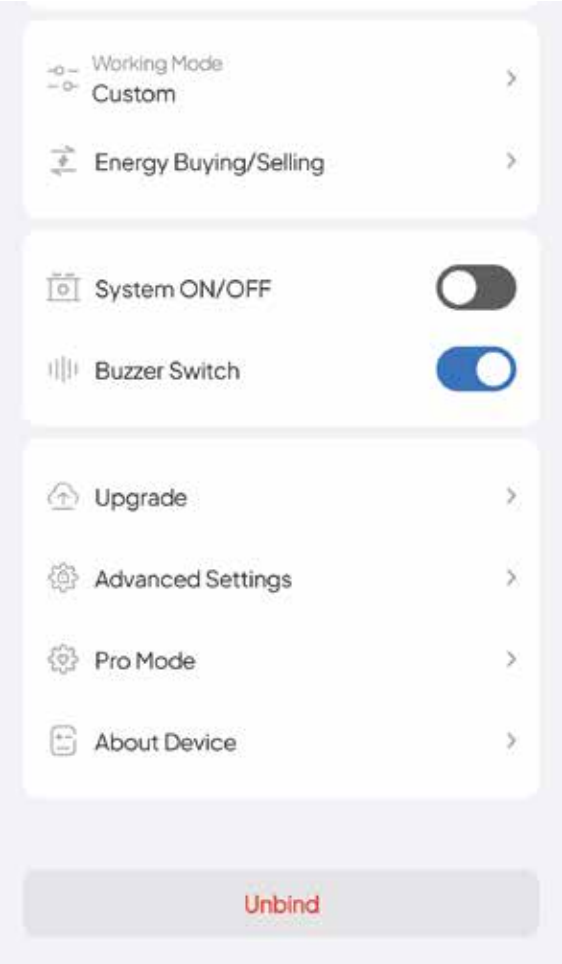
☒ Carbon emission factor: To calculate your reduced carbon emission.

Note: Reduced carbon emission (kg) = Solar power generation (kWh) × Carbon emission factor.

☒ Location :Product Positioning

☒ Visitor Access: Limit the scope of Bluetooth direct connection. Permissions

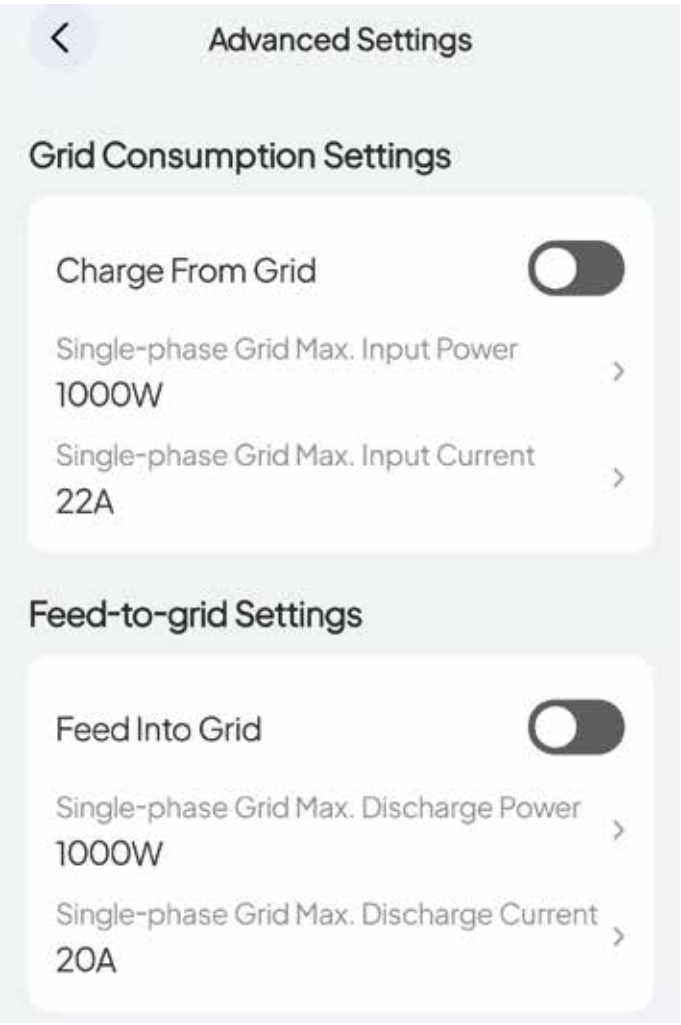
☒ Homepage Display: Once enabled, the device will show up on the App's Home page. Tap the device image to connect seamlessly and quickly.



- Working Mode: Tap to set the working modes.
- **Energy Buying/Selling:**Set the parameters for buying and selling electricity
- System **ON/OFF**: The main switch of the EP2000 ESS.
- Buzzer Switch: Enable to sound an alarm when the device encounters hardware faults.
- Upgrade: Tap to check the firmware versions or perform upgrades.
  Note : If you're connected via WiFi, you can only view firmware version details. To upgrade, please connect via Bluetooth instead.
- Advanced Settings: To check and change more settings.
- Pro Mode :More settings can be unlocked in expert mode, and you need to apply for this permission from BLUETTI.
- About Device: The information about EP2000 ESS and other related devices.
- Unbind: Tap to unbind your BLUETTI account with the EP2000 ESS.

4.2. Advanced Settings

Energy Buying/Selling



☒ Charge From Grid: To enable the EP2000 ESS to charge from the grid.

☒ Single-phase Grid Max. Input Power: Limits the maximum power that each phase of the EP2000 ESS can draw from the grid or a generator.

Note: The EP2000 ESS can draw up to three times the specified power from the grid or a generator.

☒ Single-phase Grid Max. Input Current: Limits the maximum current that the EP2000 ESS can draw from the grid or a generator.

Feed-to-grid Settings

☒ Feed Into Grid: To enable the EP2000 ESS to feed into the grid.

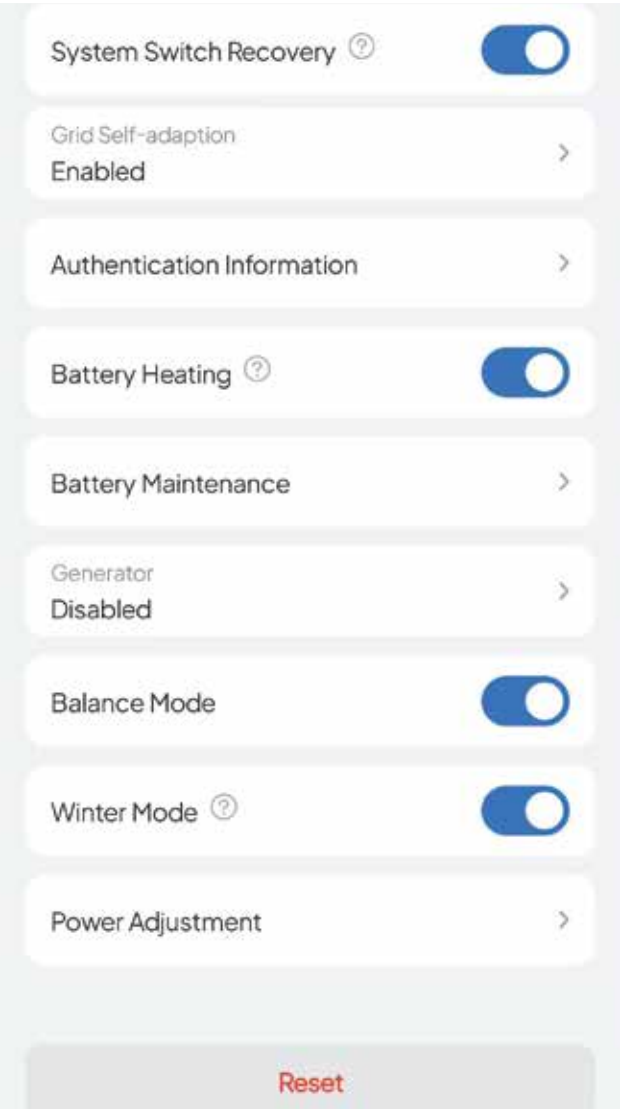
☒ Single-phase Grid Max. Discharge Power: Limits the maximum power that each phase of the EP2000 ESS can feed into the grid. The EP2000 ESS can feed up to three times the specified power into the grid.

Note: Certified installers and advanced users can modify, while others only have view access.

☒ Single-phase Grid Max. Discharge Current: Limits the maximum current that the EP2000 ESS can feed into the grid.

Note: Certified installers and advanced users can modify, while others only have

view access.



- Working Mode: To configure four operating modes. Here you can enable custom mode
- System Switch Recovery: To save the system switch status and restore it on restart.
- Grid Self-adaption: Enable it when the EP2000 ESS connects to an unstable grid with voltage fluctuations, low voltage, high voltage, etc. When enabled, the charging power will gradually increase when charging from the grid to minimize the impact on the grid.
- Battery Heating : If the temperature falls below 3° C (37.4° F) during charging, turn on this switch. When enabled, it will draw power from the grid.
- Battery Maintenance: Perform at least every 6 months for optimal performance and longer lifespan.
- Generator: Switch on for generator charging.
- Balance Mode: Enable the switch. When the machine is running, if the total load of the machine or the AC coupling exceeds the maximum power of a single phase, the three-phase average output power or absorbed power can be used.
- Winter Mode

1. This mode helps prevent deep battery discharge in low-sunlight winters.

2. When enabled, the unit monitors battery level off-grid. If the battery falls below the SOC low value (20%), it will stop powering the load.

3. Adjust the SOC low value in the Working Modes section.

☒ Power Adjustment: When matching the load, adjust the output power more accurately and try to avoid feeding or taking power from the grid.

4.3. Working Modes

The EP2000 ESS offers four operating modes to accommodate various energy plans. You can choose the one that best suits your home power supply configuration.

Backup

The EP2000 ESS acts as a backup power source, ideal for areas with unreliable grids. It prioritizes battery charging from solar and grid power, and when fully charged, allows the grid to power loads directly. In the event of a grid failure, the EP2000 ESS seamlessly takes over, ensuring continuous operation. Notably, in this mode, power cannot be fed back to the grid.

Self-consumption

This mode is ideal for regions with abundant solar resources and a stable power grid. The EP2000 ESS prioritizes solar energy to power your home and stores any excess in the battery. During the day, solar energy powers your home and charges the battery. At night, the stored energy is used to supply power. If the battery's SOC drops below 20%, the system switches to grid power while recharging the battery to 20% using solar energy. Notably, in this mode, power cannot be fed back to the grid.

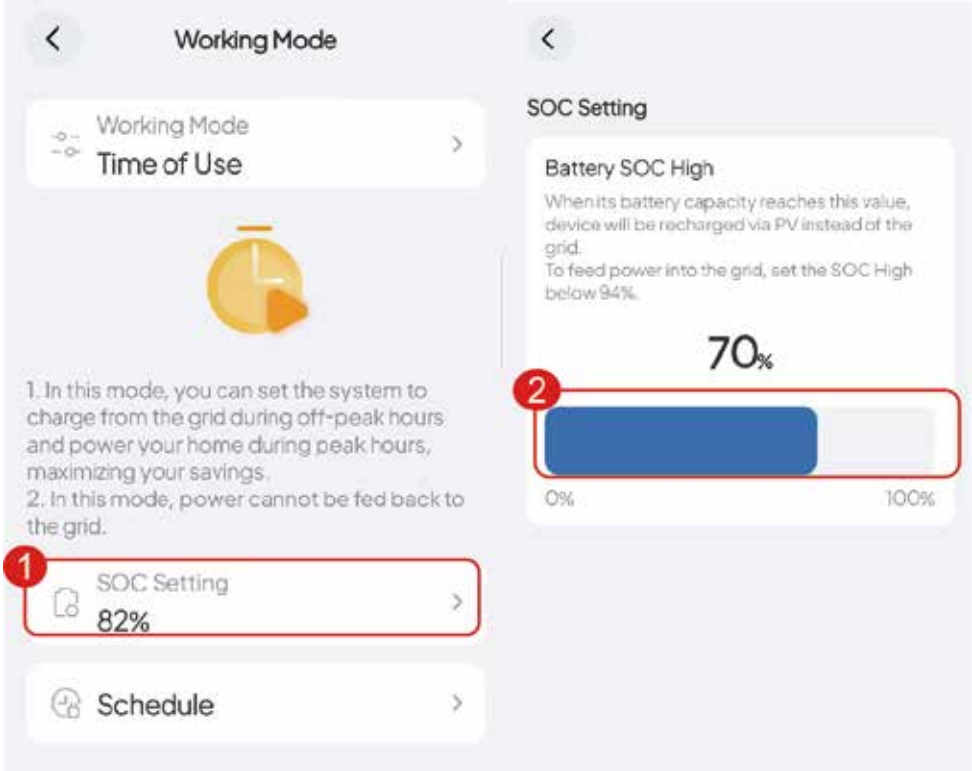
Time of Use

During peak electricity pricing, the EP2000 ESS provides power to household appliances, while during off-peak times when electricity rates are lowest, it draws power from the grid to charge the battery.

In this mode, you can set SoC High value and specific charge/discharge schedule to optimize cost savings.

1. SoC Setting

The EP2000 ESS will stop charging from the grid when the battery level reaches the configured SoC and seamlessly switch to solar charging for the remaining capacity.



2. Schedule

a. Tap Schedule .

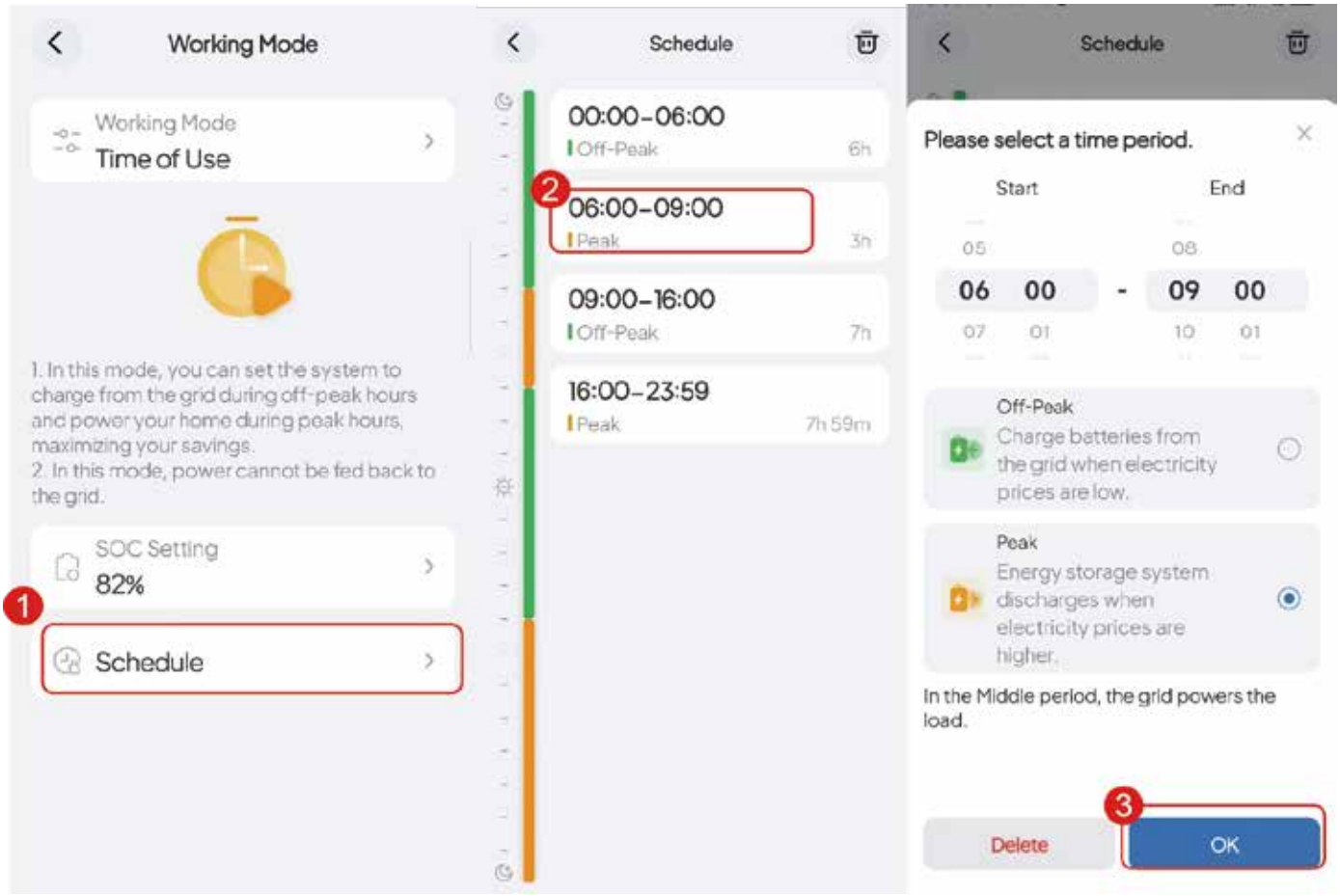
b. Tap OK in theAttention pop-up.

c. Specify a period, and set it as anOff-peak or Peak period.

Off-Peak: Schedule the EP2000 ESS to charge during off-peak hours when electricity costs are lower.

Peak: Schedule the EP2000 ESS to discharge during peak hours when electricity costs are higher.

Middle: In the Middle period, the grid powers the load.



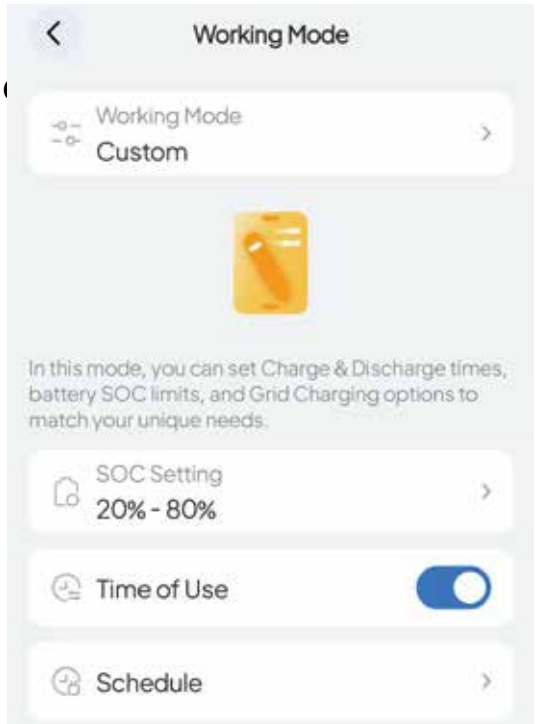
Custom

In this mode, you can customize settings to suit your needs.

Note:

In the Setting > Advanced Settings > Working Mod menu, you can select Custom modes.

In this mode, you can set battery SoC limits, and enable charge/discharge schedules, as well as grid charging and feeding.



SoC Setting

Tap SoC Setting, then slide the bars to set your desired SoC values.

SoC Low : The EP2000 ESS will stop supplying power from the battery to your appliances once the battery level drops below this value.

SoC High : The system will stop charging from the grid when the battery level reaches the value, and seamlessly switch to solar charging for the remaining capacity.

Time of Use

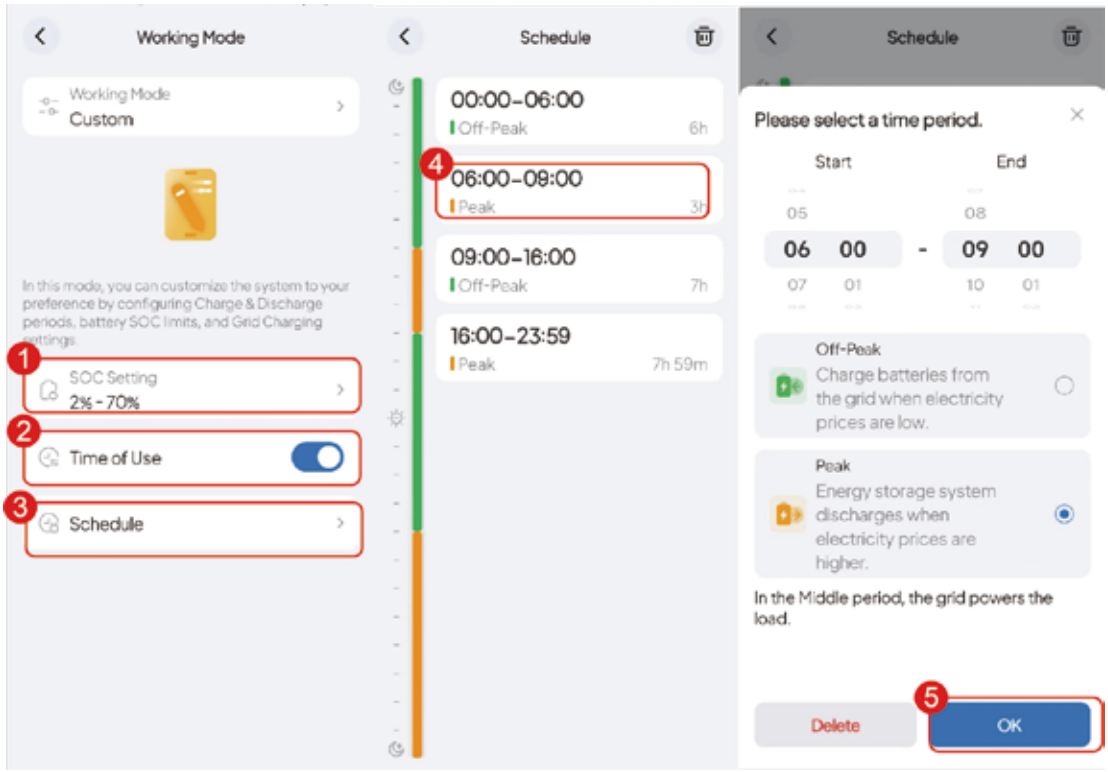
Enable the Manage Charge/Discharge Time function. Please enable it before setting a charge/discharge schedule.

With this switch turned off, the EP2000 ESS follows the charging/discharging strategy defined for the Middle period.

Schedule

You can set up to 6 time periods in order, with the earliest as the first and the latest as the last.

1. Turn on theTime of Use switch.
2. Tap Schedule .
3. Tap OK in theAttention pop-up.
4. Specify a period, and set it as anOff-peak or Peak period.



Charging/Discharging Strategy Based on Time Period

Period	Charging/Discharging Strategy
Off-peak	The EP2000 ESS charges its batteries from both the grid and solar, giving priority to solar energy. Note: ☒ With the Charge From Grid switch turned off, the batteries get charged exclusively from solar energy. ☒ Any surplus solar energy is used to fully charge the batteries. ☒ In DC-coupling mode, solar energy is used to charge the batteries first.
Peak	☒ When the Feed Into Grid switch is off, the EP2000 ESS powers the load with solar and battery energy, with priority given to solar. Any surplus solar energy is used to fully charge the batteries. ☒ When the Feed into Grid switch is on, the EP2000 ESS powers the loads with solar and battery energy, giving priority to solar. It can deliver its maximum AC power output to meet load requirements, and any surplus energy generated within this system is fed back to the grid. ☒ Solar energy priority: Load > Grid > Battery.

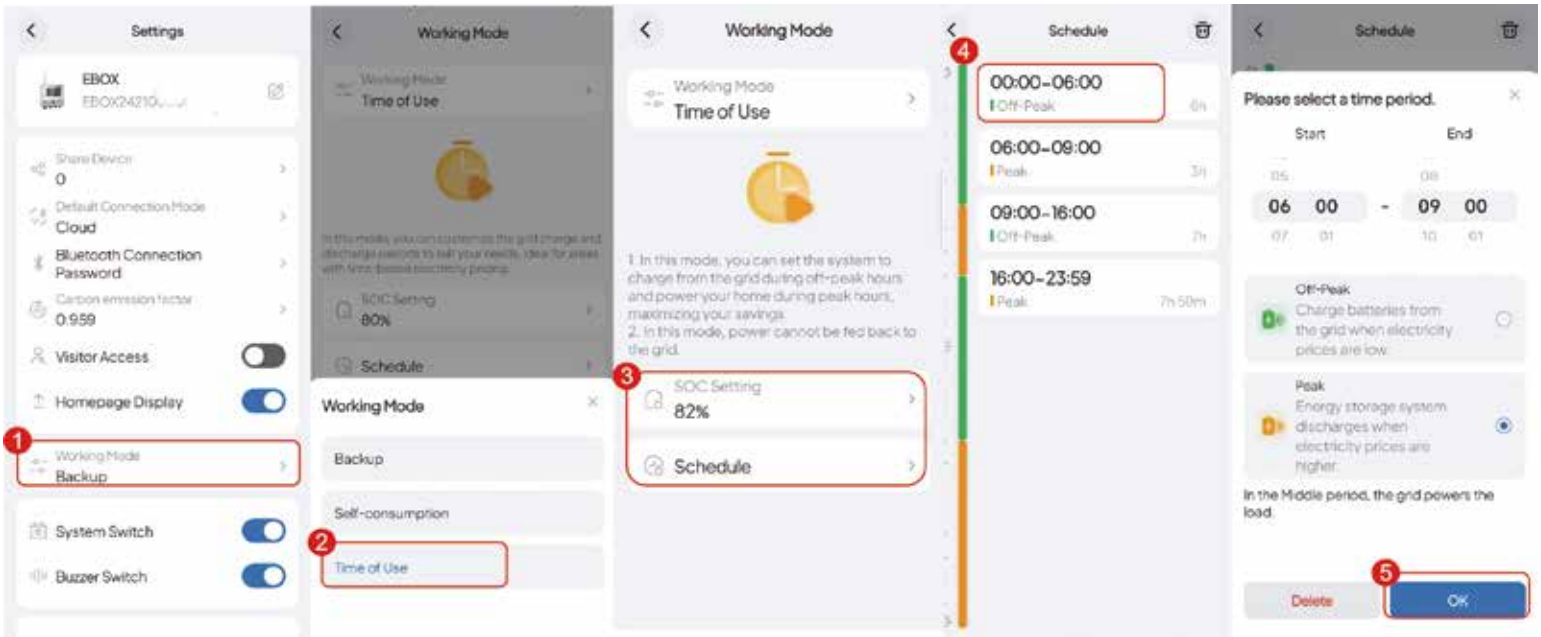
Middle	Note: With the Time of Use switch turned off, the EP2000 ESS follows the charging/discharging strategies below. The EP2000 ESS powers the load with solar and battery energy, with priority given to solar. Solar energy priority is as follows: Feed Into Grid Switch On: Load > Battery > Grid Feed Into Grid Switch Off: Load > Battery

5. Practices

Note: Disable the System Switch before setting working modes.

5.1. Charge via Grid

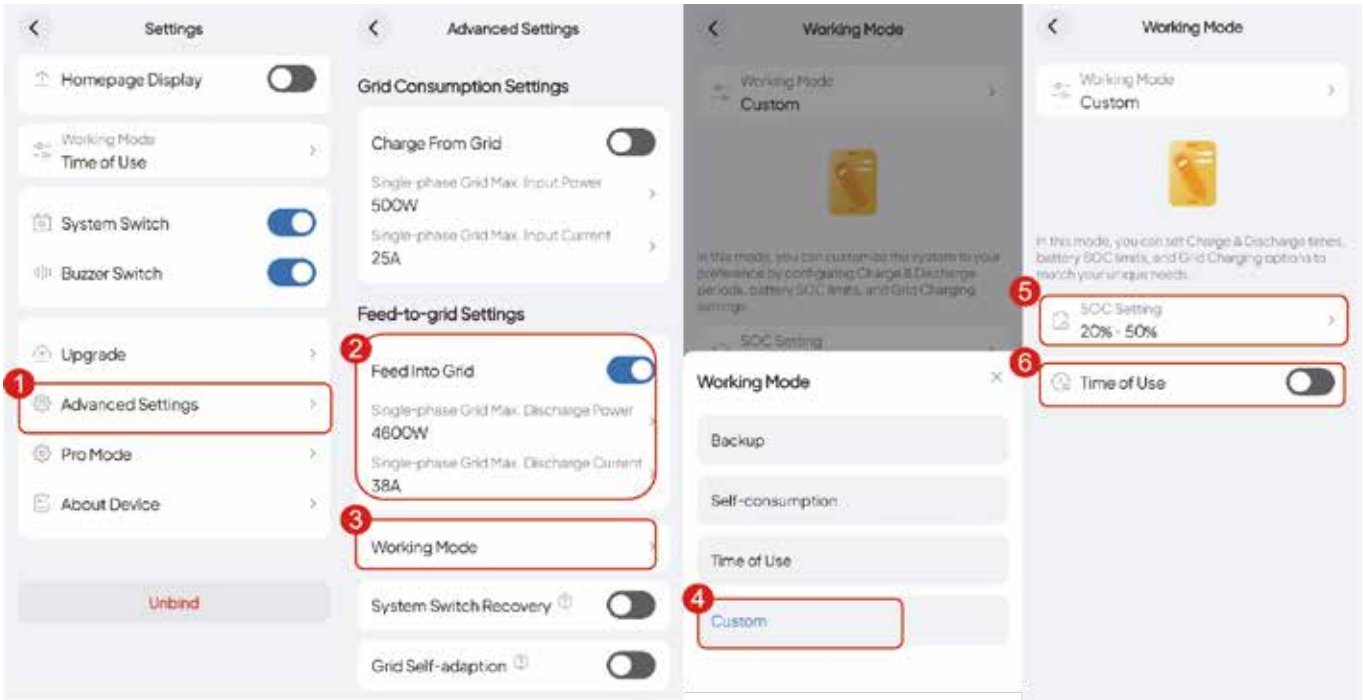
1. Tap Working Mode on the Setting page.
2. Select Time of Use , and tap OK .
3. Set SOC
4. Tap Schedule .Specify a period, and set it as an Off-Peak period.



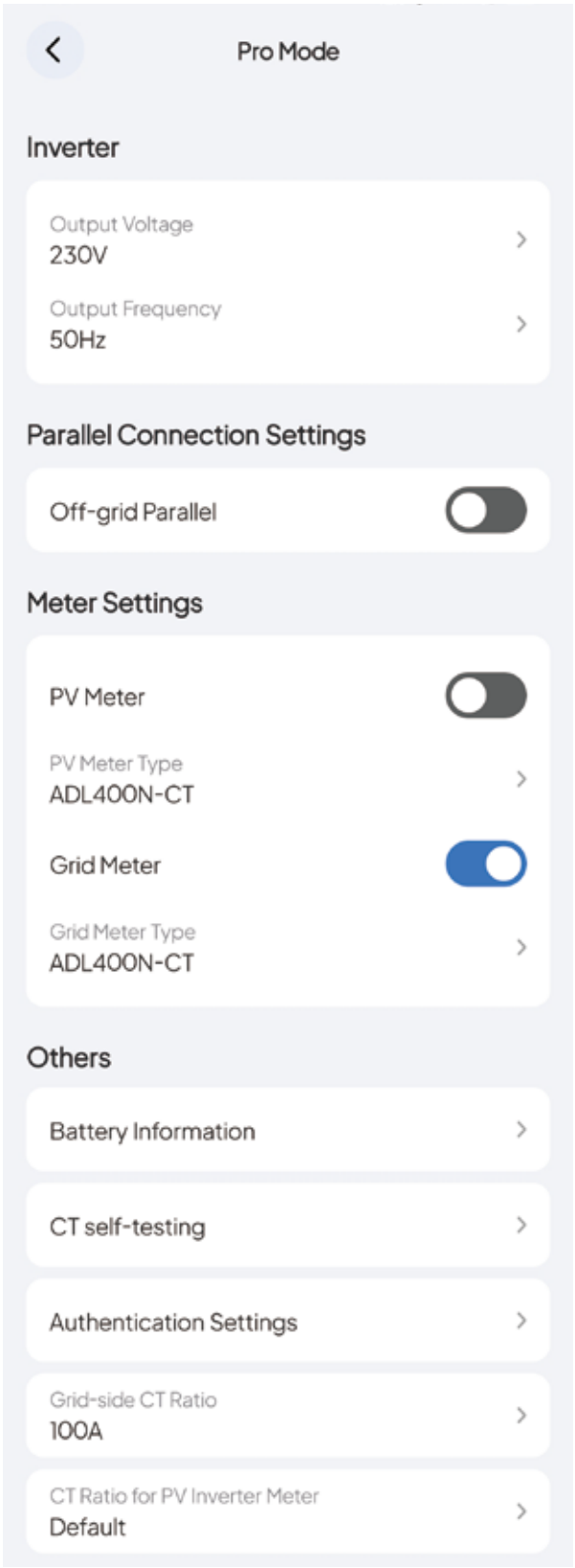
5.2. Feed The Excess Solar To The Grid

1. Go to the Advanced Settings page,
2. Turn on the Feed Into Grid switch.
3. Setting Single-phase Grid Max. Discharge Power/Current :
4. Tap Working Mode.
5. Select Custom, and tap OK.
6. Setting battery SoC limits.

   Note:SoC High must be less than 95%.
7. Turn off the Time of Use switch.



6. Pro Mode



Note: Only advanced users and authorizedinstallers have permissionto view and adjust parameters in this mode.

Item	Description
Energy Storage System Settings	☒ Output Voltage: The output voltage of the EP2000 ESS. ☒ Output Frequency: The output frequency of the EP2000 ESS (50Hz or 60Hz).
Parallel Connection Settings	☒ Off-grid Parallel: Activate to operate in off-grid parallel mode.
Meter Settings	☒ Meter Switch: Enable to record microinverter parameters, including current, voltage, and power. ☒ Meter Type: Select electric meter type based on the connected model.
Battery Information	Tap to view battery information.
CT self-testing	Note: ☒ Do not conduct the test under load, as it may affect the test results. ☒ Conduct the test in grid-connected conditions. ☒ Perform the test during the initial installation of the EP2000 ESS; refer to the EP2000 ESS Installation Manual for guidance. With this feature on, the system can detect and automatically adjust or prompt for any abnormal CT wiring.
Authentication Settings	Configure parameters like over/under voltage, over/under frequency, and grid reconnection according to local regulations.

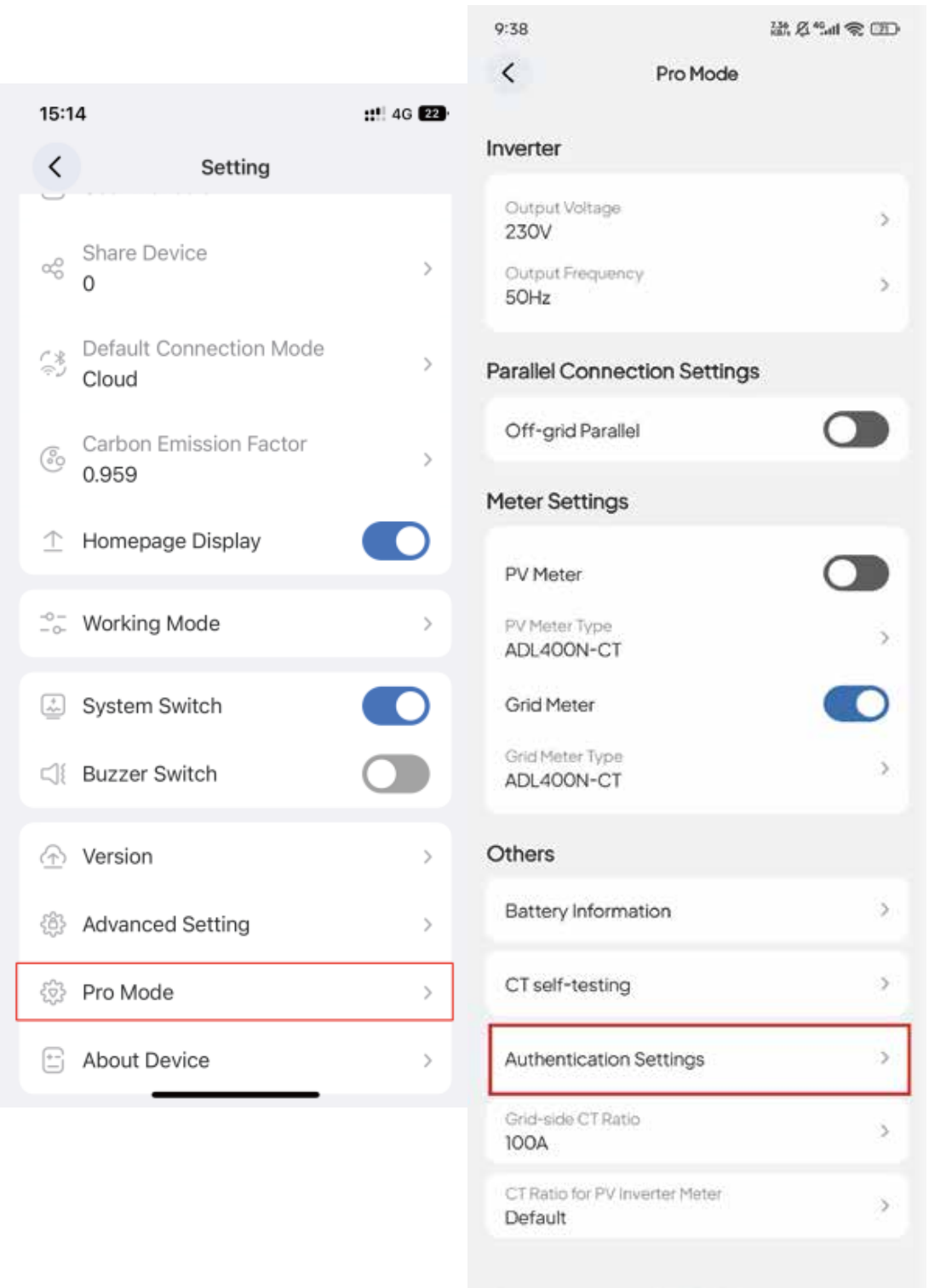
7. Advanced User Application

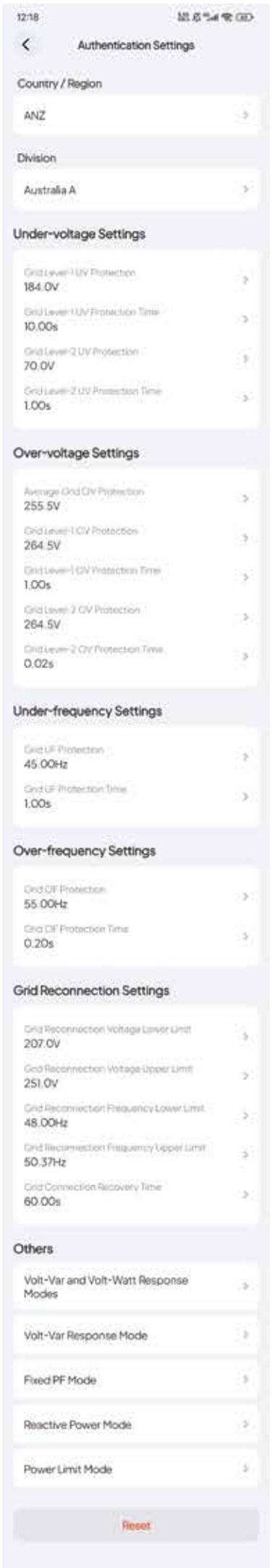
1. Register an Account:Before using the app’s advanced features, you must first register an account.

2. Apply for Advanced User Status:After registering, apply to become an advanced user by following this link: https://h5.bluettipower.com/app/apply-vip/index.html

Note :This link is solely for applying and approving advanced user permissions.For corporate installers, please follow the BLUETTI STAR process. This involves submitting the required qualifications. Upon review and approval, you will automatically receive installer role permissions.

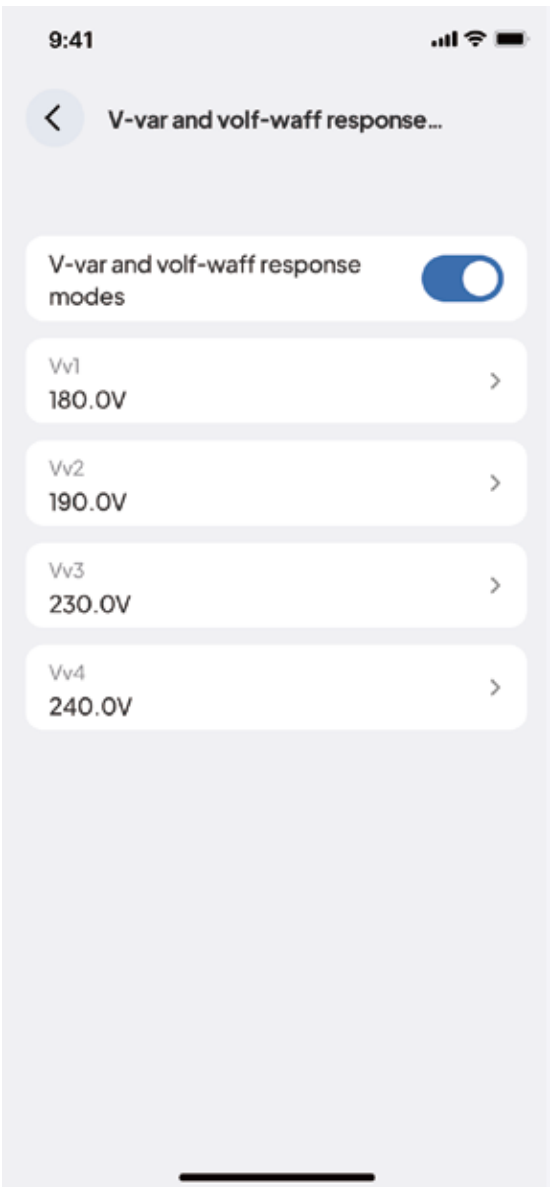
Tap to enter Settings page. Then go to Pro Mode and select Authentication Setting to configure region code, grid protection, and power quality response modes.



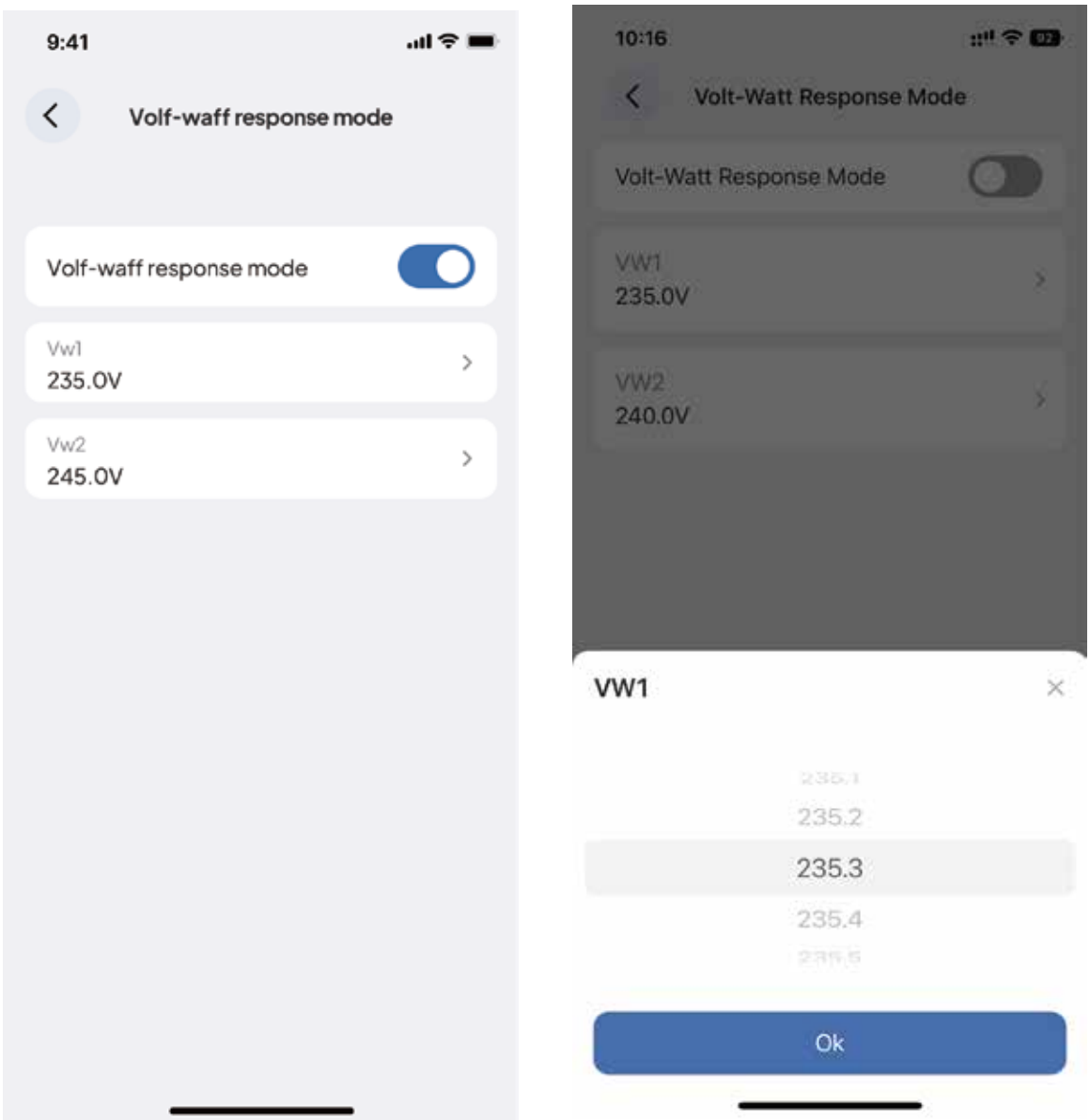

12:18
Authentication Settings
Country / Region
ANZ
Division
Australia A
Under-voltage Settings
Grid Level-1 UV Protection
184.0V
Grid Level-1 UV Protection Time
10.00s
Grid Level-2 UV Protection
70.0V
Grid Level-2 UV Protection Time
1.00s
Over-voltage Settings
Average Grid OV Protection
255.5V
Grid Level-1 OV Protection
264.5V
Grid Level-1 OV Protection Time
1.00s
Grid Level-2 OV Protection
264.5V
Grid Level-2 OV Protection Time
0.02s
Under-frequency Settings
Grid UF Protection
45.00Hz
Grid UF Protection Time
1.00s
Over-frequency Settings
Grid OF Protection
55.00Hz
Grid OF Protection Time
0.20s
Grid Reconnection Settings
Grid Reconnection Voltage Lower Limit
207.0V
Grid Reconnection Voltage Upper Limit
251.0V
Grid Reconnection Frequency Lower Limit
48.00Hz
Grid Reconnection Frequency Upper Limit
50.37Hz
Grid Connection Recovery Time
60.00s
Others
Volt-Var and Volt-Watt Response Modes
Volt-Var Response Mode
Fixed PF Mode
Reactive Power Mode
Power Limit Mode
Reset

Tap **Region**, choose **Australia**, and select a division (Australia A, Australia B, or Australia C).

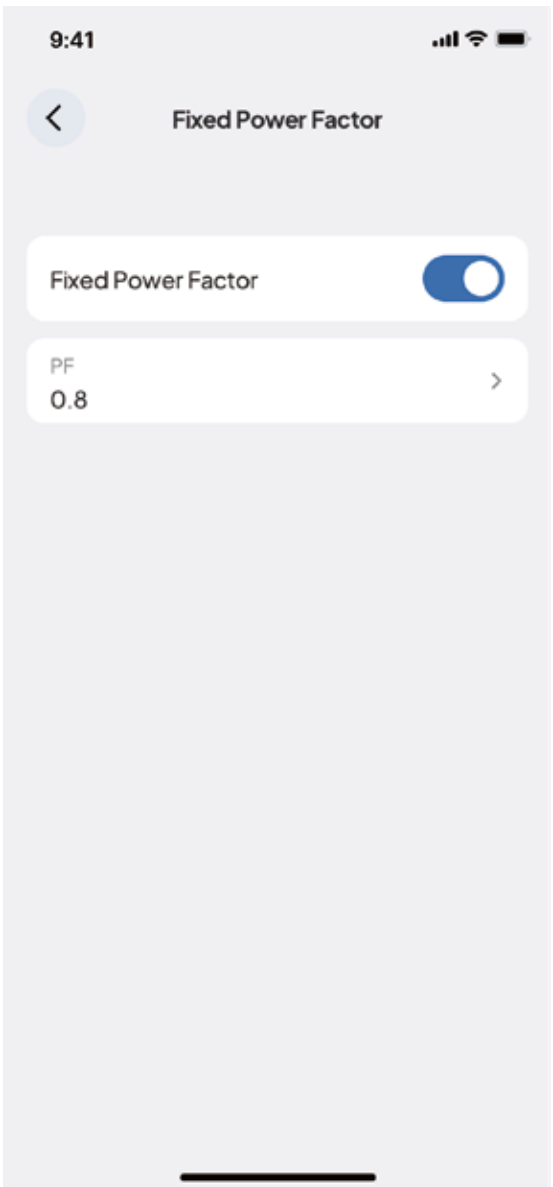
Tap **Volt-Var and Volt-Watt Response Modes** to configure the appropriate



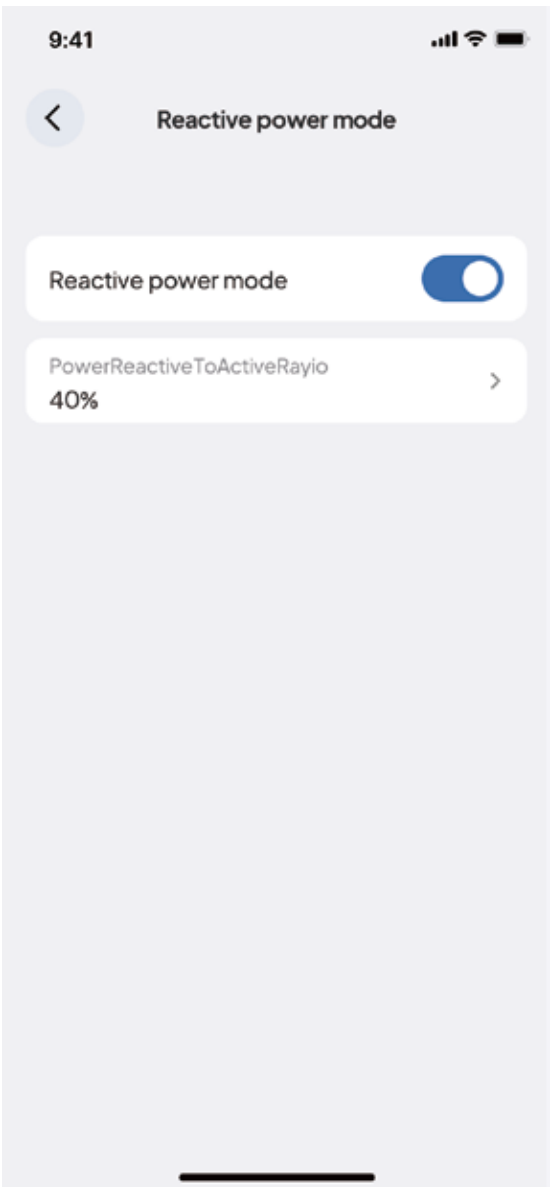
Tap **Volt-Watt Response Mode** and configure the appropriate parameters.

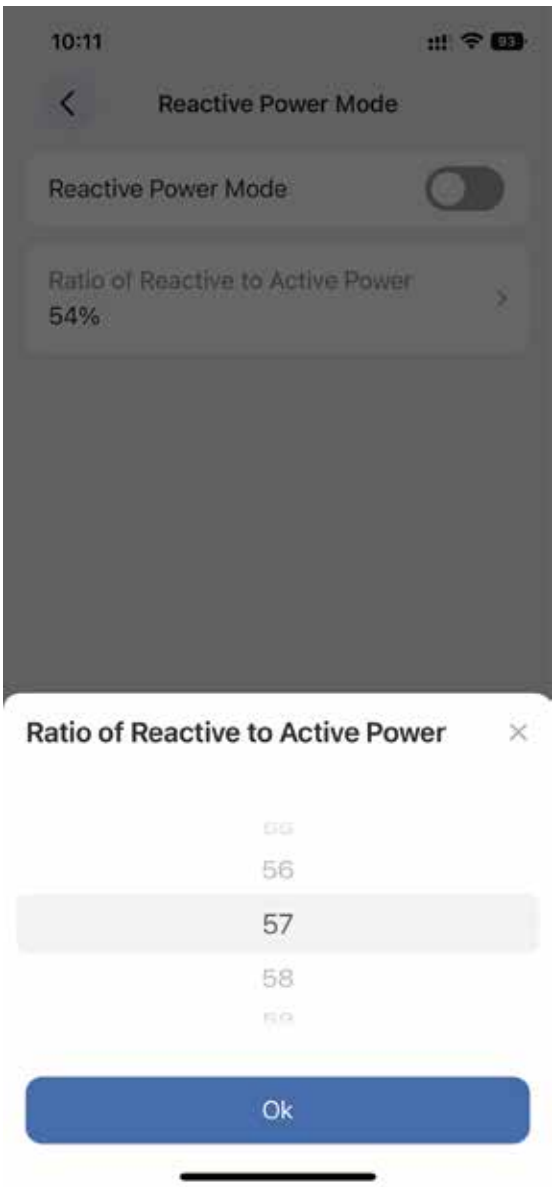


Tap **Fixed PF Mode** and configure the PF (Power Factor).

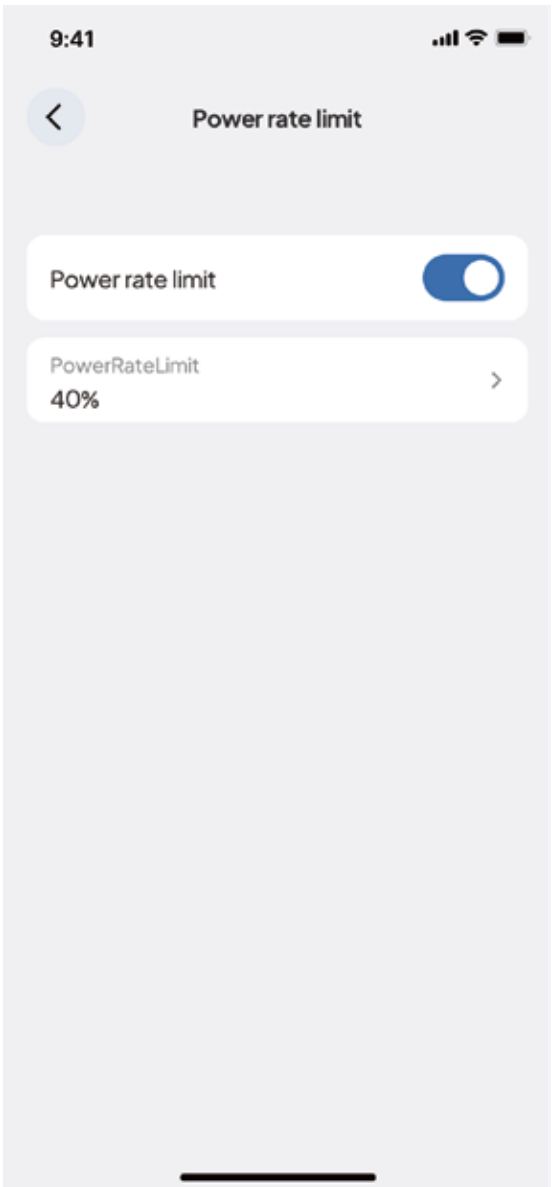


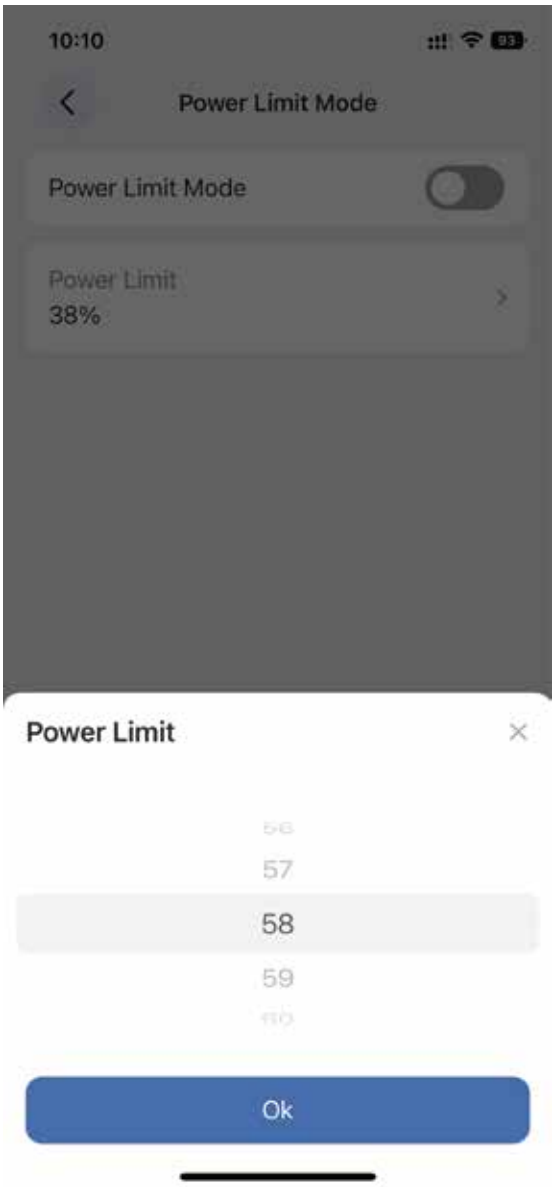
Tap **Reactive Power Mode** and set the parameters accordingly.





Tap **Power Limit Mode** and configure the appropriate parameters.





Note: Only authorized personnel can perform the above operations. After logging out, you can only view these modes as a regular user.