

SEMS+ App

EzManager

User Manual

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Notice

The information in this user manual is subject to change due to product updates or other reasons. This guide cannot replace the product labels otherwise specified. All descriptions in the manual are for guidance only.

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1 About This Manual

1.1 Overview

This manual introduces commonly used operations in SEMS+ App.

1.2 Target Audience

Only for use by professionals who are familiar with local regulations and standards, electrical systems, and who have received professional training and are knowledgeable about this product.

1.3 Symbol Definition

DANGER
A situation with high potential danger, which will result in death or serious injury if not avoided.
WARNING
A situation with moderate potential danger, which may result in death or serious injury if not avoided.
CAUTION
A situation with low potential danger, which may result in moderate or minor injury to personnel if not avoided.
NOTICE
Highlighted information and supplements of the texts. Or some skills and methods to solve product-related problems to save time.

2 APP Introduction

SEMS+ App is a monitoring platform to manage power plants and devices, and check the operating data and alarming information of the power plant.

2.1 Complementary Products

Applicable to GoodWe EzManager Series Products.

2.2 Downloading and Installing the App

Make sure that the mobile phone meets the following requirements:

- Operating system: Android 6.0 or later, iOS 13.0 or later.
- The mobile phone supports a web browser and has Internet access.
- The mobile phone supports WLAN/Bluetooth functions.

Download Methods:

Method 1:

Search SEMS+ in Google Play (Android) or App Store (iOS) to download and install the App.

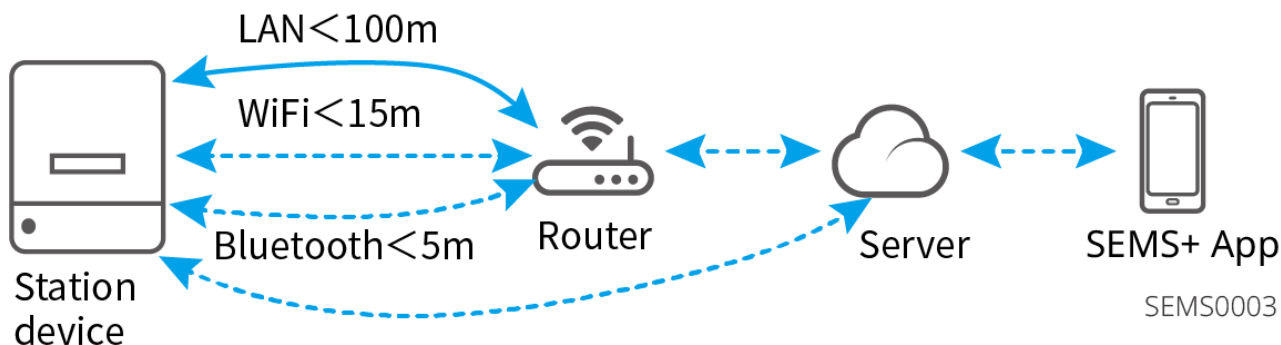


Method 2:

Scan the QR code below to download and install the App.



2.3 Connection Method



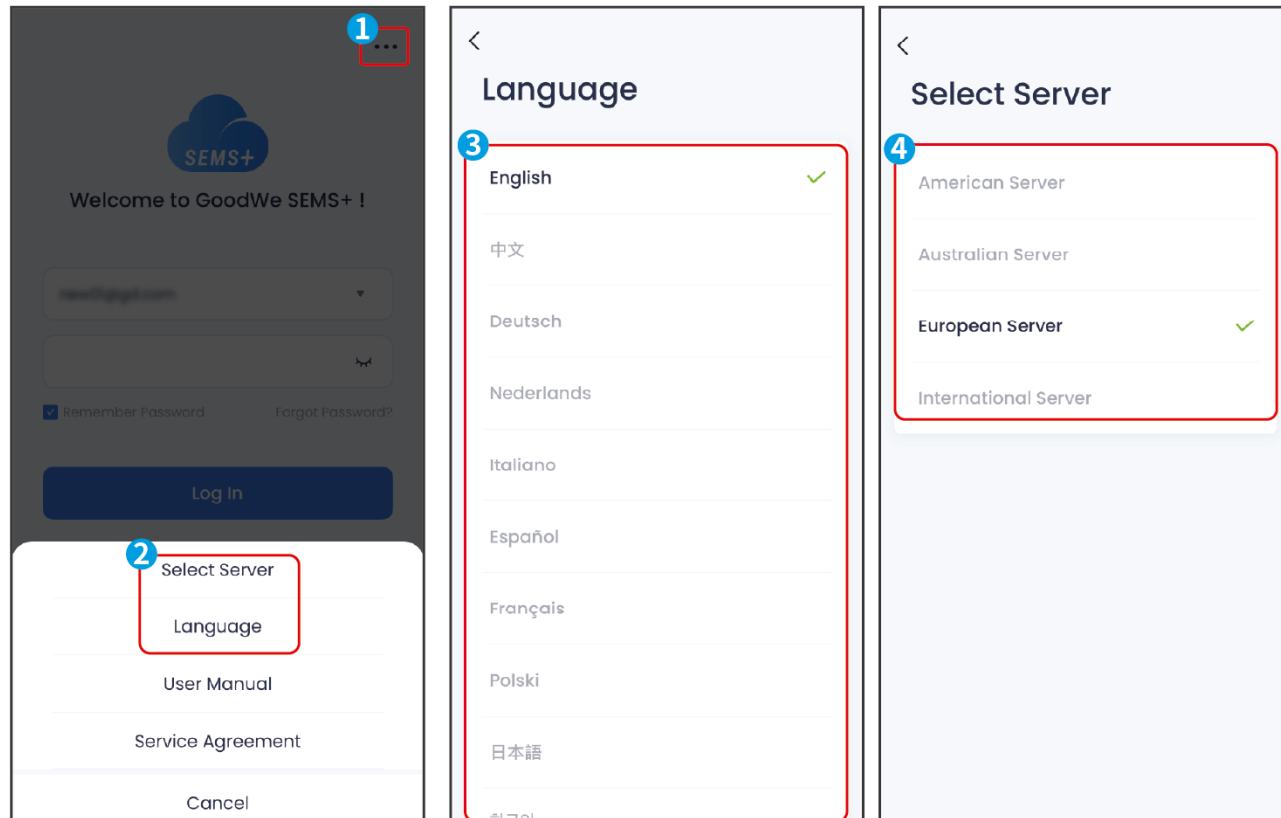
2.4 Setting Language and Server

NOTICE

Supports automatic server adaptation based on login account information. If you need to set it up yourself, when selecting the server, please confirm that the selected region matches the region associated with your account, otherwise you will not be able to log in.

Please select the app display language according to your actual needs, and select the corresponding server according to your actual location.

SEMS0004



2.5 Account Management

2.5.1 Account Registering

Step 1: Click Register on the app's home page to enter the account registration interface.

Step 2: Select the account type based on your actual needs, then click “Next”.

Step 3: Enter your account information according to the actual situation, and click Register to complete the registration.

SEMS0005

The figure shows three sequential screenshots of the SEMS+ app registration process:

- Screenshot 1 (Home Page):** Displays the SEMS+ logo and a welcome message. It includes input fields for account number and password, a "Log In" button, and a "Register" button (highlighted with a red circle and the number 1).
- Screenshot 2 (Account Type):** Titled "Account Type", it asks the user to select a server and identity. Under "01 Please select your server", the "International Server" option is selected (highlighted with a red circle and the number 2). Under "02 Please select your identity", the "Owner" option is selected (highlighted with a red circle and the number 3). A "Next" button is at the bottom (highlighted with a red circle and the number 4).
- Screenshot 3 (Account Details):** Titled "Account Details", it contains several input fields: "Country/Region" (highlighted with a red circle and the number 5), "User Name" (First Name and Last Name), "Email", "Verification Code" (with a "Send" button), "Password", and "Repeat Password". A "Register" button is at the bottom (highlighted with a red circle and the number 6).

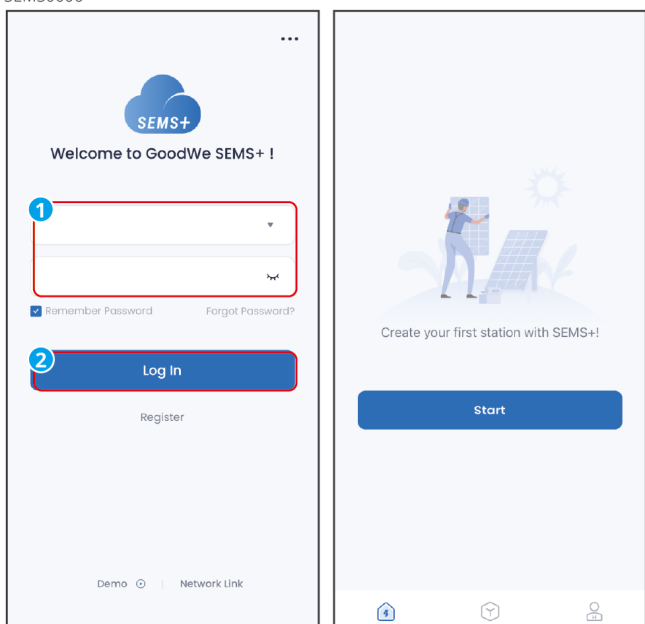
2.5.2 Account Login

NOTICE

- Register an account or obtain your account and password from your dealer before logging in.
- Check and manage power station after logging in. The actual interface takes precedence. The displayed information of a power station varies depending on factors such as account type, region, and power station type.

Step 1: Enter your account number and password, read and check the login agreement, and click “Log In”.

SEMS0006

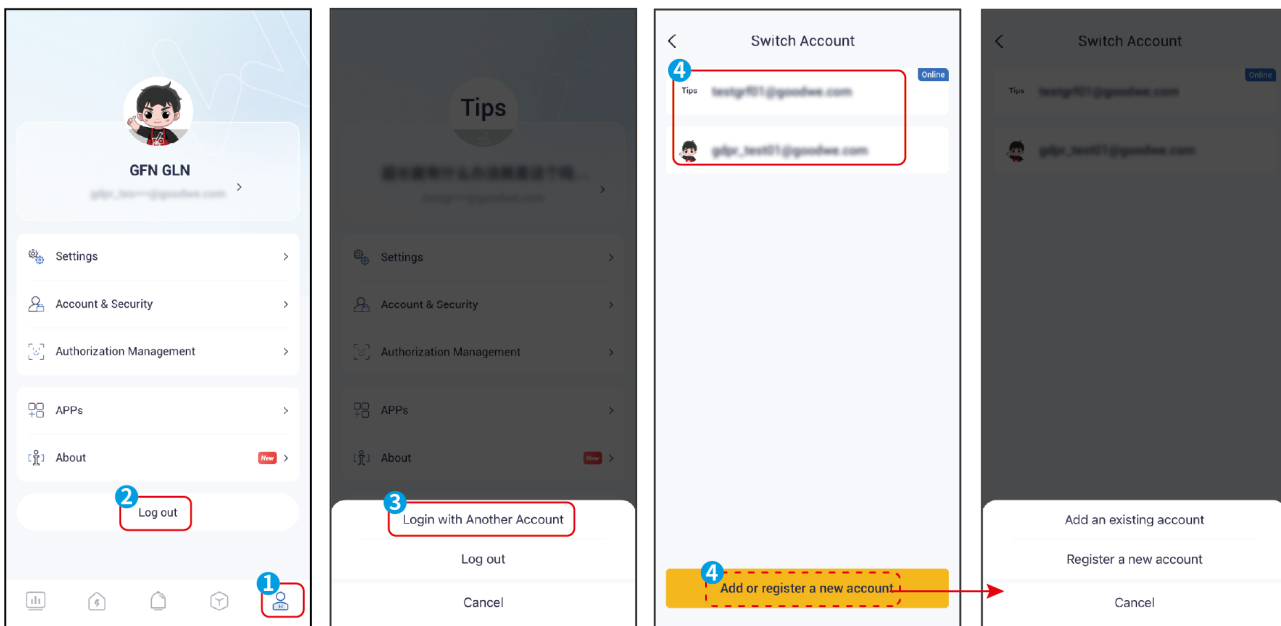


2.5.3 Account Switch

Step 1: On the "Me" interface, click "Log Out" > "Log In with Another Account".

Step 2: Select an existing account or add a new account based on your actual needs.

SEMS0007

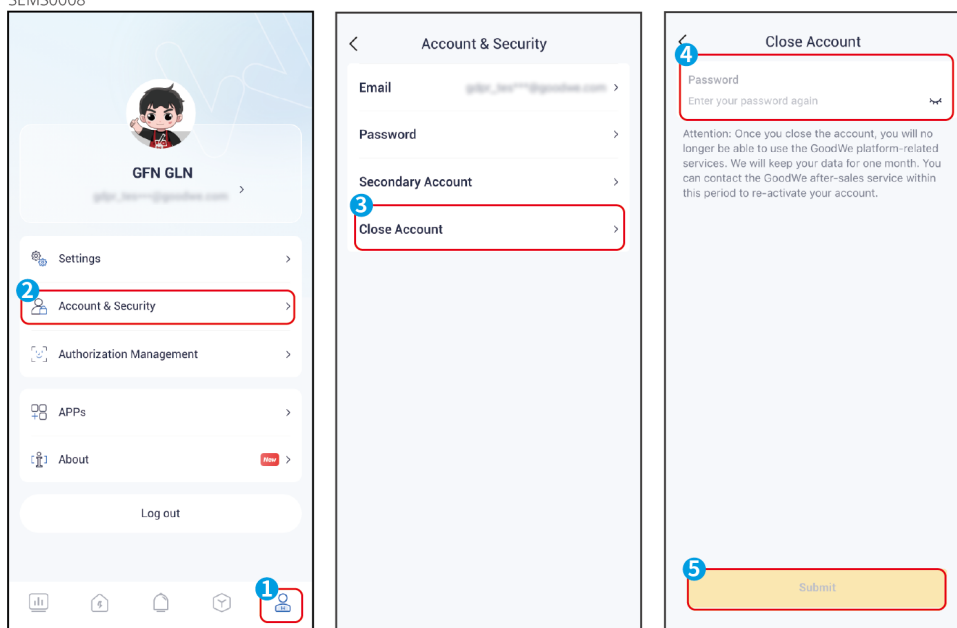


2.5.4 Account Canceling

Step 1: On the "Me" interface, click "Log Out" > "Log In with Another Account".

Step 2: Click "Close Account", enter your account password, and then click "Submit".

SEMS0008



2.5.5 Account Permissions

The SEMS+ app supports different account types with different permissions. The operating permissions for different account types vary. Please refer to the table below for details.

Top-level menu	Secondary menu	Third-level menu	Four-level menu	Five-level menu	Permissions
Longin & Registrat ion	-	-	-	-	Administrators, installers, marketing personnel, owners, visitors
Overvie w	Monitoring informatio n	-	-	-	Administrators, installers, marketing personnel, owners, visitors
	Power Plant Creation	-	-	-	Administrators, installers, owners, visitors

Top-level menu	Secondary menu	Third-level menu	Four-level menu	Five-level menu	Permissions
Power Plant	Power Plant List	-	-	-	Administrators, installers, marketing personnel, owners, visitors
		Power Plant Monitoring	-	-	Administrators, installers, marketing personnel, owners, visitors
	Power Plant Details	Name	Device Adding	-	Administrators, installers, and owners
			Device List	Device Editing	Administrators, installers, and owners
				Deleting Equipments	Administrators, installers, and owners
			Device Details	Device Monitoring Information	Administrators, installers, marketing personnel, owners, visitors
				Device Remote Control	Administrators, installers, and owners
				Device Remote Upgrading	Administrators and installers
		System Alarm	-	-	Administrators, installers, marketing personnel, owners, visitors

Top-level menu	Secondary menu	Third-level menu	Four-level menu	Five-level menu	Permissions
		Power Plant Configuration	Basic Information	-	Administrators, installers, and owners
			Deleting Power Plant	-	Administrators, installers, and owners
			Interface Style	-	Administrators, installers, and owners
			Managing Organizations or user information	-	Administrators, installers, and owners
			Electricity Price Setting	-	Administrators, installers, and owners
	Power Plant Creation	-	-	-	Administrators, installers, owners, visitors
System Alarm	-	-	-	-	Administrators, installers, marketing personnel
Server	Server	Quality Guarantee	-	-	Administrators, installers, marketing personnel, owners, visitors
		Reporting Center	-	-	Administrators, installers, marketing personnel, owners

Top-level menu	Secondary menu	Third-level menu	Four-level menu	Five-level menu	Permissions
		GoodWe News	-	-	Administrators, installers, marketing personnel, owners, visitors
		Announcement	-	-	Administrators, installers, marketing personnel, owners, visitors
		Community	-	-	Administrators, installers, marketing personnel, owners, visitors
	Tool	Power Plant Creation	-	-	Administrators, installers, owners, visitors
		Network Connection	-	-	Administrators, installers, marketing personnel, owners, visitors
		DNSP	-	-	Administrators, installers, marketing personnel, owners, visitors
	Assistance	-	-	-	Administrators, installers, marketing personnel, owners, visitors

Top-level menu	Secondary menu	Third-level menu	Four-level menu	Five-level menu	Permissions
Mine	User Data	-	-	-	Administrators, installers, marketing personnel, owners, visitors
	Managing Organizations or user information	-	-	-	Administrators, installers, marketing personnel, owners, visitors
	Settings	-	-	-	Administrators, installers, marketing personnel, owners, visitors
	Account Safety	Email	-	-	Administrators, installers, marketing personnel, owners, visitors
		Password	-	-	Administrators, installers, marketing personnel, owners, visitors
		Secondary Account	-	-	Administrators, installers, marketing personnel
		Close the account	-	-	Administrators, installers, marketing personnel, owners, visitors

Top-level menu	Secondary menu	Third-level menu	Four-level menu	Five-level menu	Permissions
	Authorization Management	Remote Control Authorization	-	-	Administrators, installers, marketing personnel, owners, visitors
		Monitoring Authorization	-	-	Owners
	Apps	-	-	-	Administrators, installers, marketing personnel, owners, visitors
	About	-	-	-	Administrators, installers, marketing personnel, owners, visitors
	Logout	Logout	-	-	Administrators, installers, marketing personnel, owners, visitors
		Login other account	-	-	Administrators, installers, marketing personnel, owners, visitors

3 Rapid System Configuration

3.1 Quick setting (EzManager)

NOTICE

- When devices in the network such as energy storage inverters, charging piles, and smart switches connect to the router via WiFi/LAN, they first need to be connected to the same router as EzManager through Bluetooth local configuration. Otherwise, EzManager will not be able to identify the aforementioned devices. Please refer to the following method to complete the configuration before quickly configuring the power station:
 - GoodWe products are configured via the SEMS+ App. For detailed operations, please refer to the [4.Setting Communication Parameters\(Page 30\)](#) chapter. For more details, refer to the [SolarGo App](#) User Manual.
 - For third-party devices, please refer to the device user manual for configuration.
- When logging in for the first time, use the initial password and change it as soon as possible. Please keep the password in mind. To ensure account security, it is recommended to change the password regularly.

Step 1: Log in to the SEMS+ App and tap "Get Started" on the homepage to start configuring the system.

Step 2: On the "Create Power Station" page, fill in the power station information according to the actual situation. Tap "Save and Continue" to enter the device addition page.

Step 3: Scan the device QR code, or manually enter the device SN (Serial Number), device name, and verification code to add device information. Tap "Completed" to start scanning for devices.

1 Home screen with 'Let's start' button.

2 'Create Stations' form with the following fields:

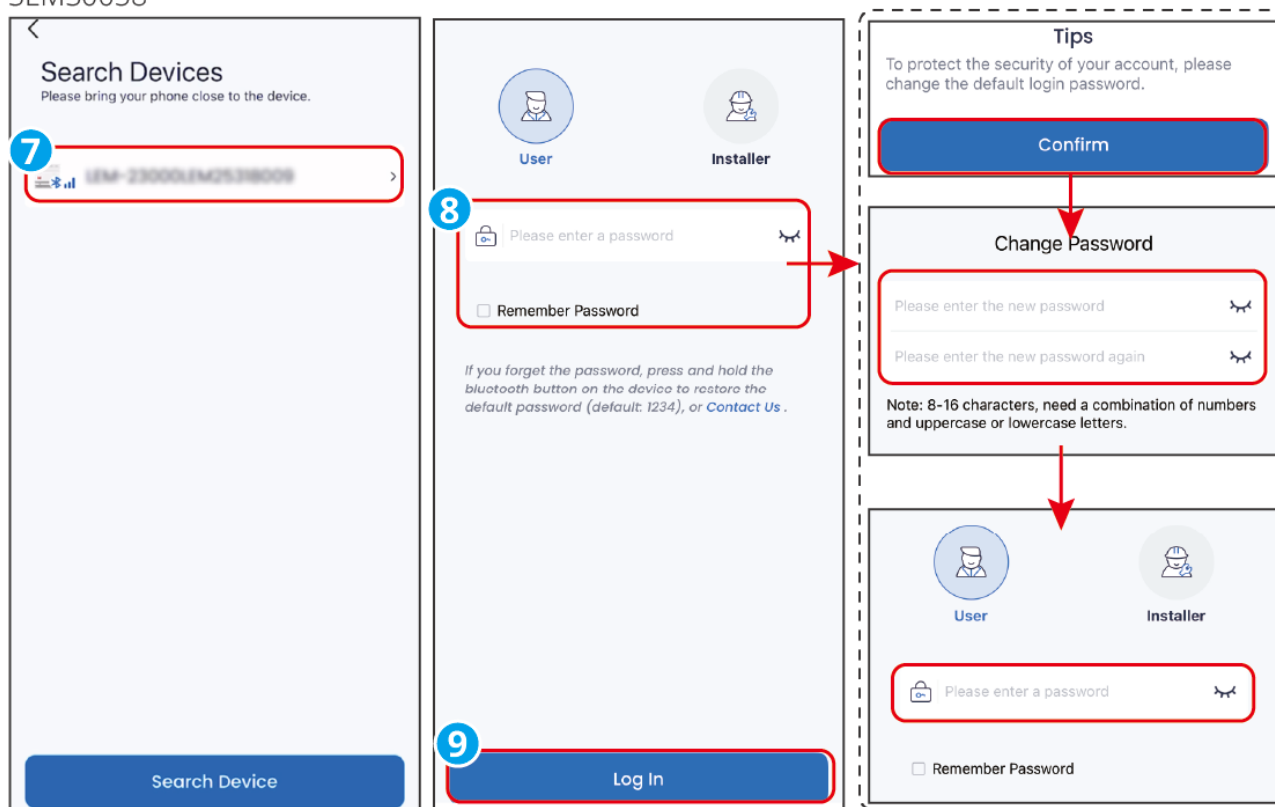
- Owner's Email Address: jiyue.ma@goodwe.com
- *Station Name: J_250729_000004
- *Station Address: Huguang, Suzhou, China
- *Station Time Zone: (UTC+08:00) Asia/Shanghai
- Detailed Station Address: Enter your detailed address.
- Organization Code
- Installer Code
- *Station Classification

3 'Device SN' and 'Device Name' fields with a QR code scanner.

4 'Save and Continue' button.

5 'Completed' button.

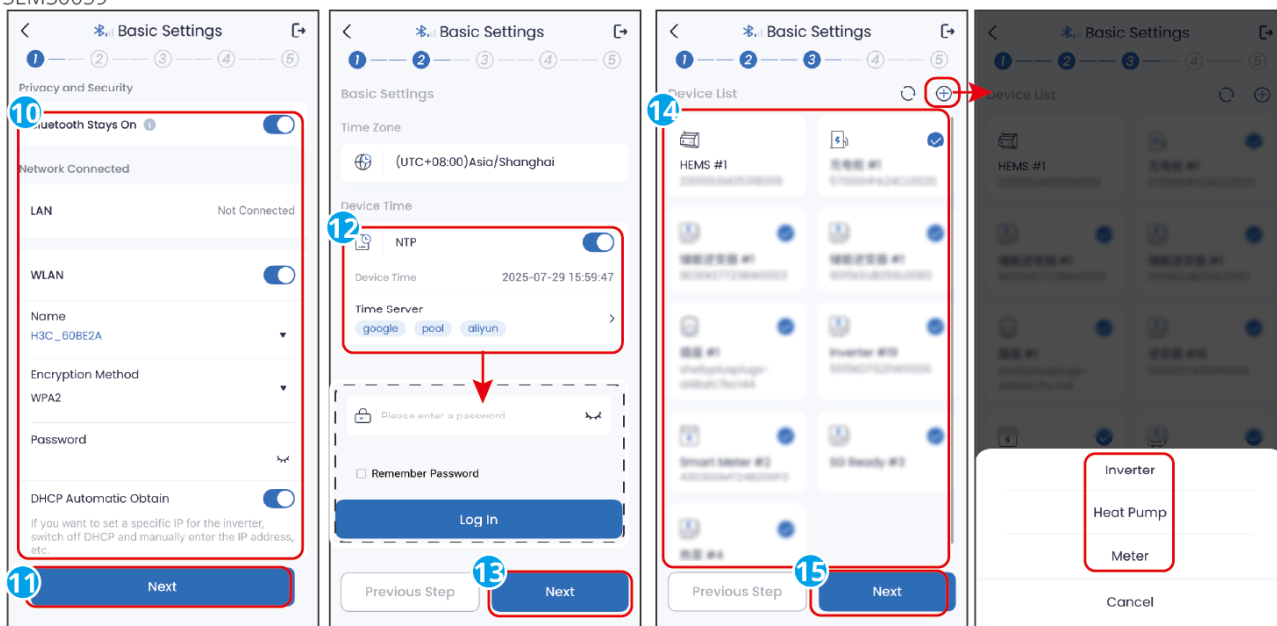
Step 4: On the "Search for Devices" page, select the SN of the scanned device. Fill in the login password as prompted on the interface. If it is your first login, please change your login password according to the prompts on the interface. Initial Login Password: 1234.



Step 5: According to the on-screen prompts and actual needs, set up the LAN/WLAN information, and confirm whether to enable the Bluetooth always-on function. When selecting a router, ensure that EzManager and other devices requiring network deployment are connected to the same router; otherwise, the system may fail to detect the devices. Tap "Next" to enter the Basic Settings page.

Step 6: Select the time zone based on the actual region and choose a time server. Tap "Next" to enter the Device List page. If you did not select "Remember Password" during login, you will be prompted to enter the login password again here.

Step 7: The Device List will display devices in the network that have been connected to the router. Check the devices according to your actual needs; unchecked devices will not be displayed subsequently. If there are other devices in the network that need to be connected to EzManager via RS485, DO, or other methods, you can click "+" to add them. Select the device type and enter the device information as prompted on the interface. After completing the device addition, tap "Next".

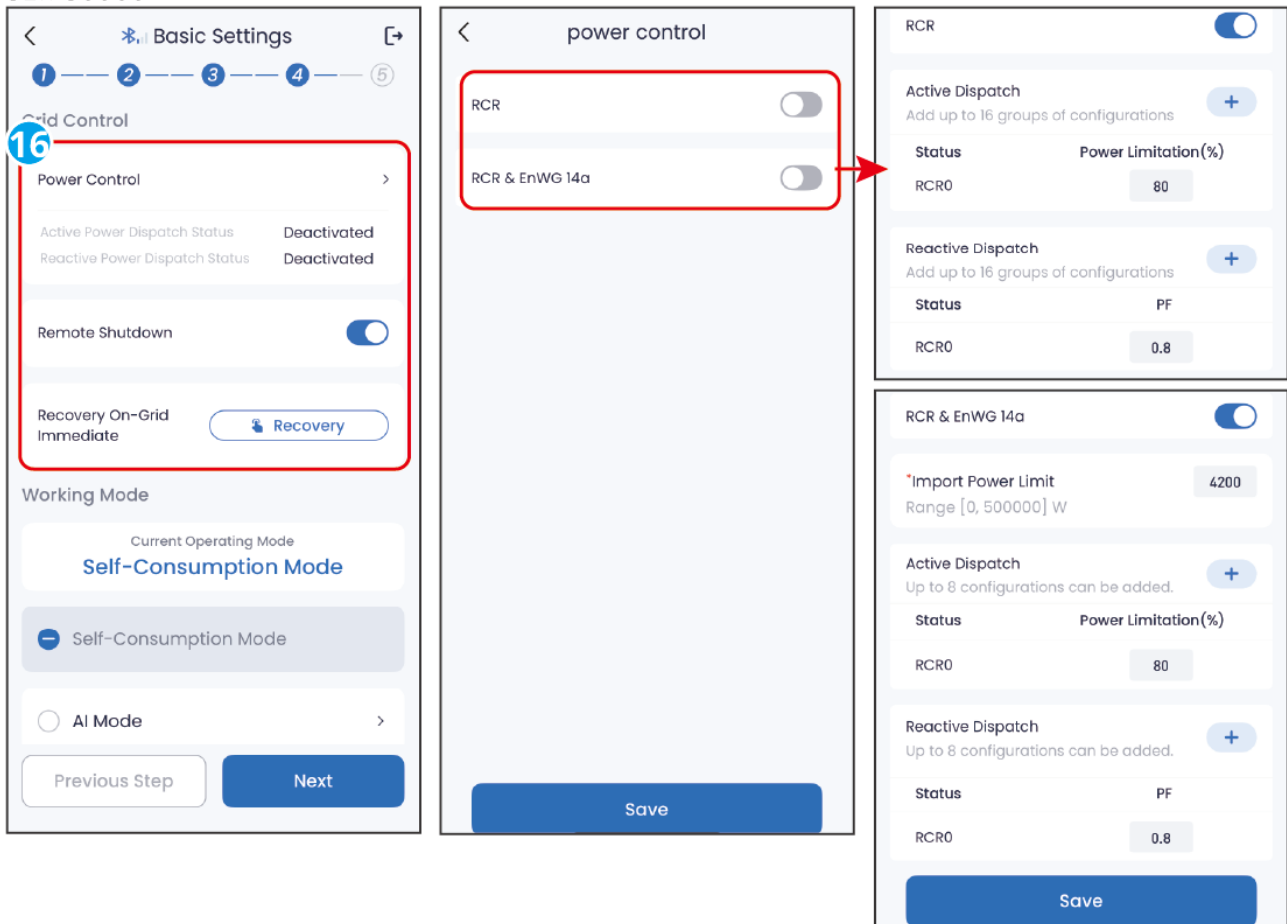


No.	Parameters	Description
Inverter		
1	Name	Setting Inverter Name
2	Serial Number	Scan the SN barcode of the inverter, and information such as the inverter's serial number and verification code will be automatically imported.
3	Verification Code	
4	Port Configuration	Select the actual port through which the inverter is connected to EzManager. • COM1: RS485/A1/B1 • COM2: RS485/A2/B2 • COM3: RS485/A3/B3 • COM4: RS485/A4/B4
5	Modbus Port Configuration	Set the actual Modbus address.
6	Connection Check	Tap to verify if the inverter is connected properly.

No.	Parameters	Description
7	Safety Standard Selection	Set the country or region for the inverter's safety standard.
Smart Meter		
8	Name	Setting Smart Meter Name.
9	Smart Meter Model	Select the model of the actually connected electricity meter.
10	Smart Meter Attribute	Select based on the actual usage of the electricity meter. Please set it to Grid side
11	Wiring Mode	Set according to the actual wiring method of the smart meter. Supports: • Single phase Single wire • Three phase Three wire • Three phase Four wire
12	CT Ratio	• Set when the Meter Model is configured as GM330. • Set the CT transformation ratio of the smart meter.
13	COM port	Select the actual port through which the smart meter is connected to EzManager. • COM1: RS485/A1/B1 • COM2: RS485/A2/B2 • COM3: RS485/A3/B3 • COM4: RS485/A4/B4
14	Serial Number	Click to automatically match.

Step 8: On the Grid Control interface, set power control parameters according to

actual needs, such as RCR, remote shutdown, etc.
SEMS0060



No.	Parameter	Description
RCR: In accordance with the standard requirements of regions such as Germany, the device must provide an RCR signal control port to meet the grid dispatching requirements.		
1	RCR	Enable or disable RCR.

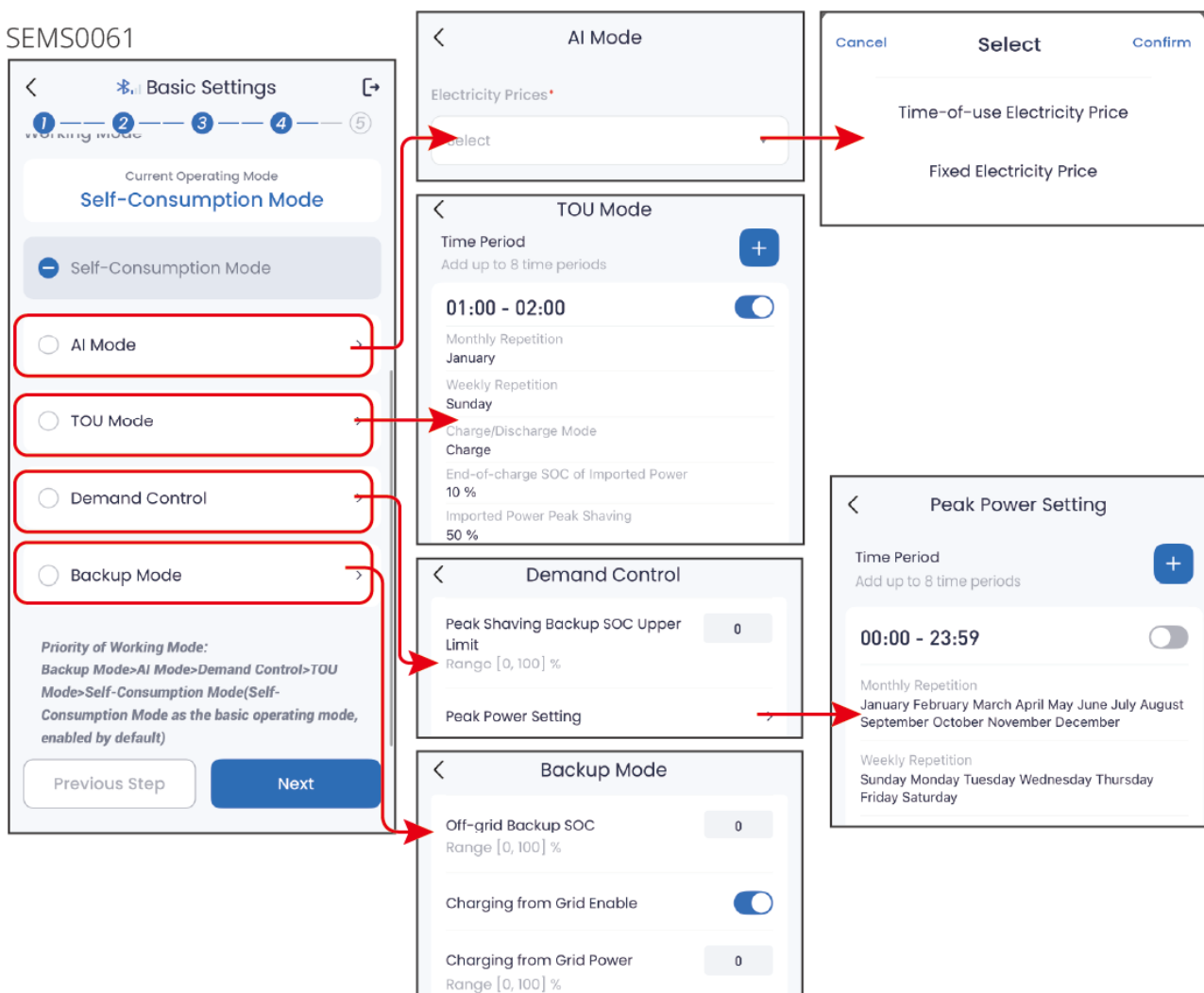
No.	Parameter	Description
2	Active Scheduling	• According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding percentage. The percentage refers to the ratio of the system's output power to its rated power (expressed as a percentage). • Configuration of 16 levels of percentage values is supported; please set them according to the actual requirements of the power grid company. • Do not set duplicate state combinations for DI1-DI4, otherwise the function will not work properly. • If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.
3	Reactive Scheduling	• According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding PF value. • Configuration of 16 levels of power factor is supported; please set them according to the actual requirements of the power grid company. • PF value range requirement: [-100, -80] or [80, 100]. The range [-100, -80] corresponds to a lagging power factor of [-0.99, -0.8], and [80, 100] corresponds to a leading power factor of [0.8, 1]. • Do not set duplicate state combinations for DI1-DI4, otherwise the function will not work properly. • If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.

No.	Parameter	Description
RCR&EnWG 14a:		
- RCR (Ripple Control Receiver): The device must provide an RCR signal control port to meet the grid dispatching requirements in regions such as Germany. - For regions where the EnWG 14a regulation applies, all controllable loads must accept emergency dimming from the power grid. The power grid operator may temporarily reduce the maximum grid power purchase capacity of controllable loads to 4.2kW.		
4	RCR&EnWG 14a	Enable or disable 14a.
5	The On-grid Power Limit	Set the upper limit of power purchased from the grid in accordance with the requirements of local grid regulations.
6	Active Scheduling	- The DI4 port is fixed for EnWG 14a. - According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding percentage. The percentage refers to the ratio of the system's output power to its rated power (expressed as a percentage). - Configuration of 8 levels of percentage values is supported; please set them according to the actual requirements of the power grid company. - Do not set duplicate state combinations for DI1-DI3, otherwise the function will not work properly. - If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.

No.	Parameter	Description
7	Reactive Scheduling	• The DI4 port is fixed for EnWG 14a. • According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding PF value. • Configuration of 8 levels of power factor is supported; please set them according to the actual requirements of the power grid company. • PF value range requirement: [-100, -80] or [80, 100]. The range [-100, -80] corresponds to a lagging power factor of [-0.99, -0.8], and [80, 100] corresponds to a leading power factor of [0.8, 1]. • Do not set duplicate state combinations for DI1-DI3, otherwise the function will not work properly. • If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.
Remote Shutdown: In accordance with the requirements of certain countries or regions, the device must be equipped with a remote shutdown function to control the device to stop operating in emergency situations.		
8	Remote Shutdown	Enable or disable Remote Shutdown.
9	CONNECTING TO THE GRID	If you need to resume the On-grid state after the device is OFF, first manually turn on the device, then tap "Resume Grid Connection Immediately".

Step 9: Set the working mode according to actual needs on the Working Mode page.

SEMS0061



No.	Parameter	Description
AI Mode: Set the electricity price according to user needs, and combine AI calculation for optimized dispatching to maximize energy efficiency. When using AI Mode, during the initial stage of collecting power station information, there may be deviations between the predicted curve and the actual situation.		

No.	Parameter	Description
1	Electricity Price	Select TOU (Time-of-Use) electricity price, fixed electricity price, or dynamic electricity price. Supported options are as follows: • Dynamic electricity price: Obtain dynamic electricity prices from the power company, and dynamically adjust the actual electricity purchase and sale prices by combining with the electricity price surcharge set by the user. • TOU electricity price: Users set electricity price information for different time periods according to the actual electricity price. Multiple sets of electricity prices can be set. • Fixed electricity price: Users set electricity purchase and sale prices according to the actual electricity price. • When using AI Mode for the first time, if the electricity price information has not been set, please jump to the electricity price setting page to set the electricity price information as prompted on the interface.
TOU Mode: It is recommended to use TOU mode in scenarios when the peak-valley electricity price varies a lot. Select TOU mode only when it meets the local laws and regulations. Based on actual needs, during off-peak hours, the battery can be set to charging mode to purchase electricity from the grid for charging; during peak hours, the battery can be set to discharge mode to supply power to the load through the battery.		
2	Repetition (Months)	During the period between the start time and end time, the battery will charge or discharge in accordance with the set charge-discharge mode and its rated power.
3	Repetition (Weeks)	
4	Charge and discharge mode	Set Charge and discharge mode according to actual needs.

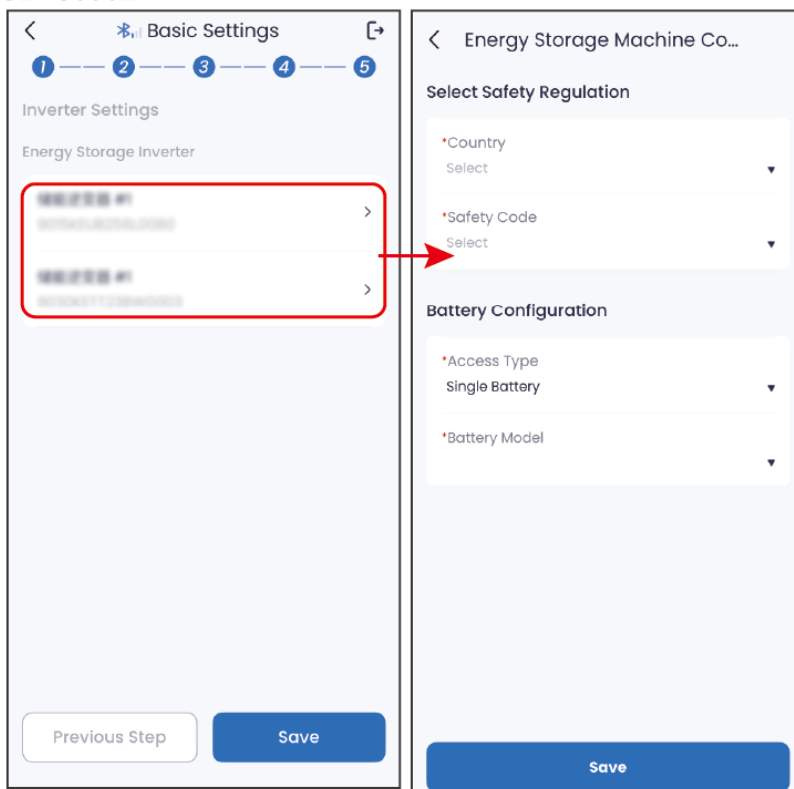
No.	Parameter	Description
5	Grid-Purchased Power Charge Cut-off SOC	The battery stop charging once the battery SOC reaches Charge Cut-off SOC.
6	Nominal Power	The percentage of power purchased compare to the rated power of the inverter.
7	Discharge Power Limit	The percentage of power purchased compare to the rated power of the inverter.
Mainly applicable to scenarios where the peak power consumption is limited. When the total power consumption of the load exceeds the power quota within a short period of time, battery discharge can be used to reduce the amount of power consumption exceeding the quota.		
8	Demand management SOC Upper Limit:	In the demand management mode, the battery SOC is lower than the Peak Shaving Backup SOC Upper Limit. When the battery SOC is higher than the Peak Shaving Backup SOC Upper Limit, the demand management function becomes invalid.
9	Peak Power Setting	Set the maximum power limit allowed for purchasing electricity from the grid. When the power consumed by the load exceeds the sum of the electricity generated by the photovoltaic system and this limit, the excess power will be supplemented by battery discharge.
BACK-UP Mode: Recommended for use in areas with unstable power grids. When the grid is disconnected, the inverter turns to off-grid mode and the battery will supply power to the BACKUP loads; when the grid is restored, the inverter switches to on-grid mode.		
10	Off-Grid Backup SOC	To ensure that the battery SOC is sufficient to maintain normal operation when the system is off-grid, the battery will purchase electricity from the grid and charge to the set SOC protection value when the system is connected to the grid.

No.	Parameter	Description
11	Enable charging from grid	Use this function, enable the system to purchase power from the utility grid.
12	Charging Power	The percentage of power purchased compare to the rated power of the inverter.

Step 10: Set the parameters of the energy storage inverter according to actual needs, such as the safety standard country, battery connection method, battery model, etc.

Step 4: Tap "Save" to complete the settings.

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Step 11: Tap "Save" to complete the quick configuration.

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<

Basic Settings

[+]

1

2

3

4

5

Inverter Settings

Energy Storage Inverter

储能逆变器 #1

SELECT A BATTERY INVERTER

>

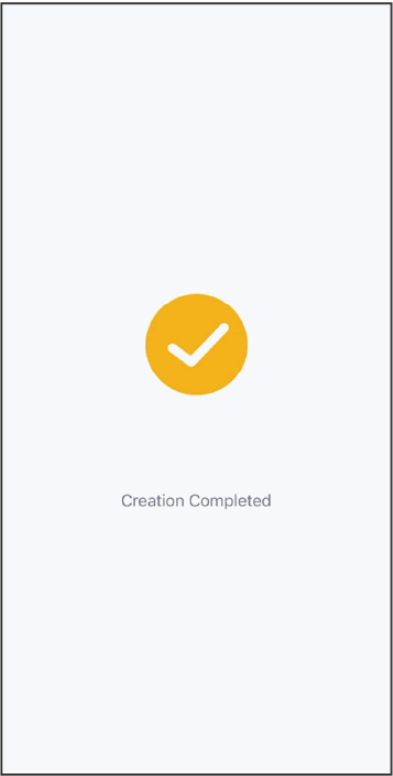
储能逆变器 #2

SELECT A BATTERY INVERTER

>

Previous Step

17 Save



4 Setting Communication Parameters via Bluetooth

NOTICE

- Before connecting, please confirm that: Bluetooth is enabled on your mobile phone; the device is powered on and communicating normally.
- When the equipment type or smart communication stick used is different, the interface display and parameters to be set will also differ. Please refer to the actual situation.

Step 1: Click “Internet connection” in the home page of the APP, or click “Internet connection” in the “service” interface.

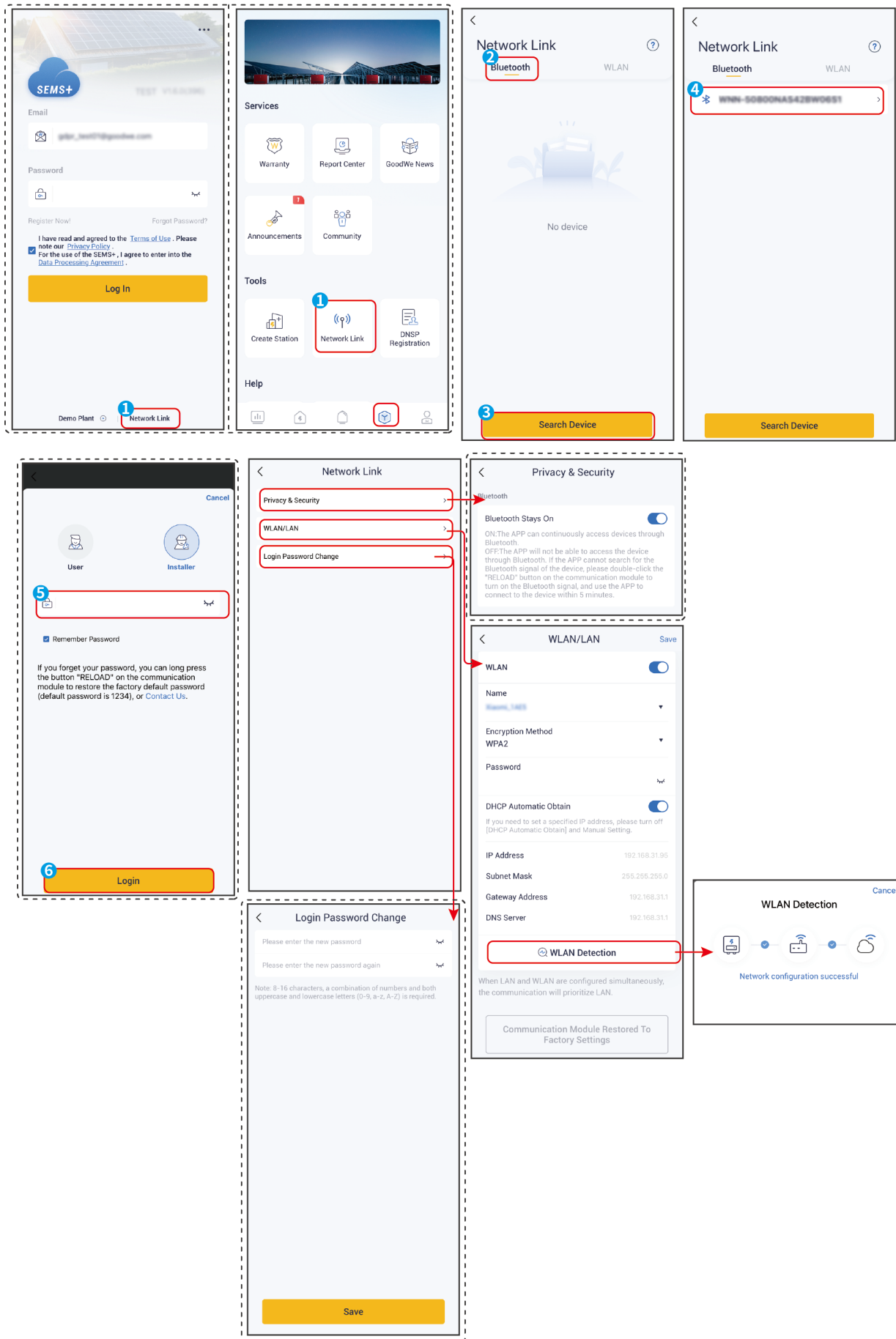
Step 2: Under the WLAN tab, select the device you want to connect to by its serial number.

Step 3: If prompted to log in, log in to the app according to your actual role and enter your login password to access the communication settings interface. Initial Login Password: 1234. If there is no login prompt, you can directly enter the communication settings interface.

Step 4: (Optional) Enable “Bluetooth” according to actual needs. Otherwise, the Bluetooth signal will be turned off after this connection ends.

Step 5: Configure the **WLAN** or **LAN** network according to the actual situation, and click Save to complete the setup. Click “WLAN” Detection to check whether communication is normal.

Step 6: (Optional) Click “Enter password”, and click save to modify login password.



No.	Parameter	Description
Setting Privacy and Security Parameters		
1	Bluetooth Continuously Enabled	Enable the function, the bluetooth of the device will be contentions on to keep connected to SEMS+. Otherwise, the bluetooth will be off in 5 minutes.
WLAN/LAN		
2	WLAN	Enable or disable WLAN.
3	Name	Set this parameter based on the actual router network information used.
4	Encryption scheme	
5	Password	
6	DHCP active acquirement	Enable DHCP when the router is in dynamic IP mode. Disable DHCP when a switch is used or the router is in static IP mode.
7	IP Address	When DHCP is enabled, there is no need to configure this parameter.
8	Subnet Mask	
9	Gateway Address	When DHCP is turned off, please configure this parameter according to the information of the router or switch.
10	DNS Server	

5 Power Plant Monitoring

NOTICE

The parameters that can be viewed or set on the interface vary depending on the login account type or power plant type. Please refer to the actual interface for details.

5.1 Power Plant Management

5.1.1 Configuring Power Plant Information

NOTICE

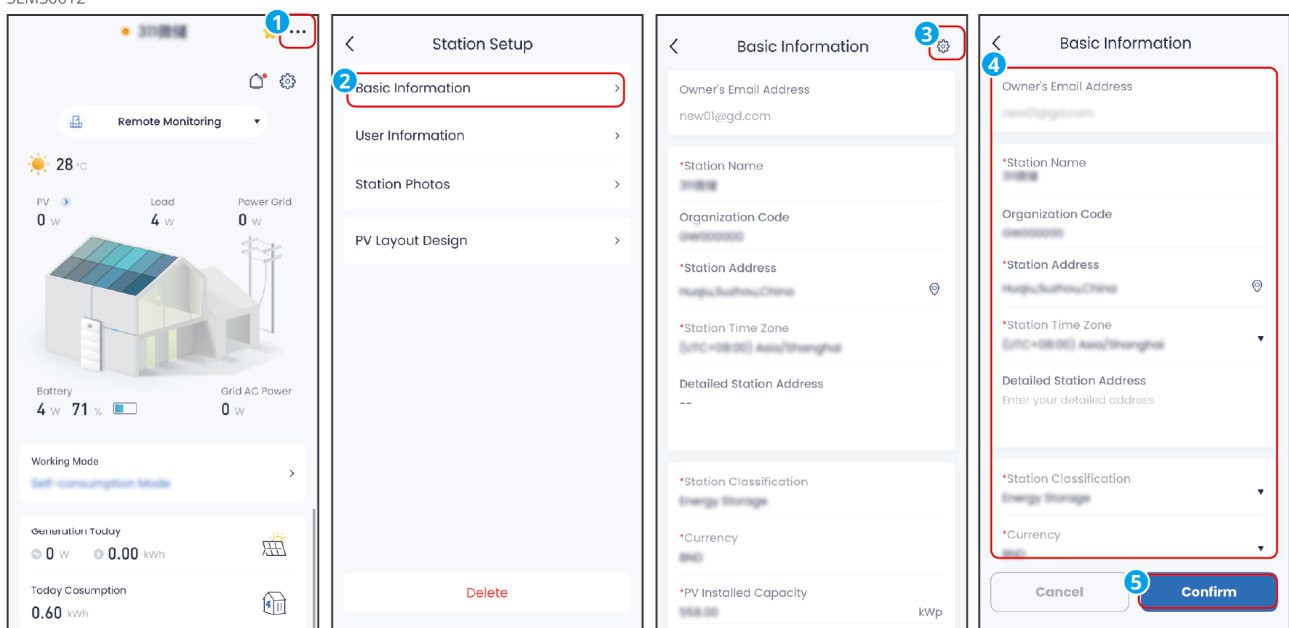
After the power station has been successfully created, you can update the power station configuration information according to actual needs. When the configuration information entered conflicts with the actual conditions of the power station, the actual conditions of the power station shall prevail. The basic information provided here is for reference only.

Step 1: (Optional) If there are multiple power plants, select the power plant you want to set up in the power plant list interface.

Step 2: On the power plant details page, click > “Basic Information” to access the information viewing interface.

Step 3: Click  to enter the information modification interface, modify the information according to your actual needs, and click “Confirm” to save the changes.

SEMS0012



5.1.2 Power Plant Visitors Management

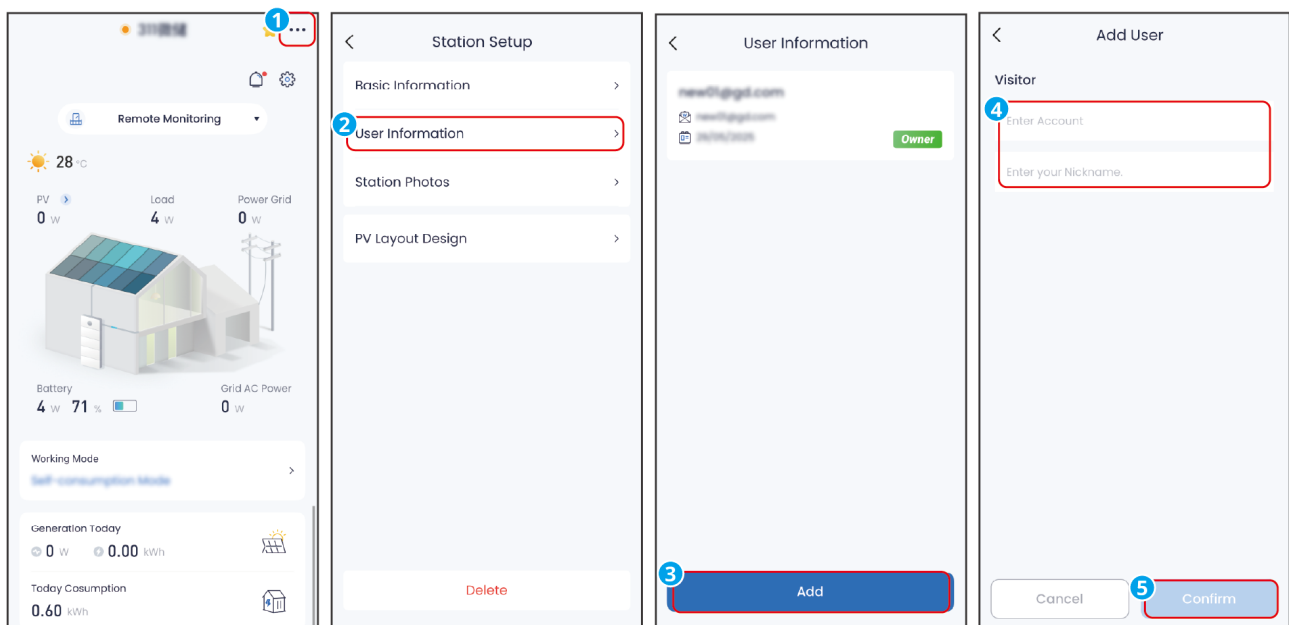
Supports adding power plant visitors to view basic power plant information. Visitors to the power station cannot view all interfaces. Please refer to the actual interface.

Step 1: (Optional) If there are multiple power plants, select the power plant you want to set up in the power plant list interface.

Step 2: In the power station details interface, go to >"User Information"> "Add" > to enter the visitor addition interface.

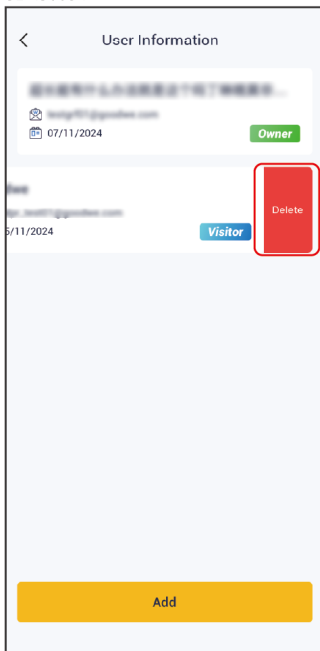
Step 3: After inputting the visitor information, click "Confirm" to complete the addition.

SEMS0013



To delete an added visitor, select the visitor you want to delete in the "User Information" interface, swipe right, and click "Delete".

SEMS0054



5.1.3 Power Plant Photos Management

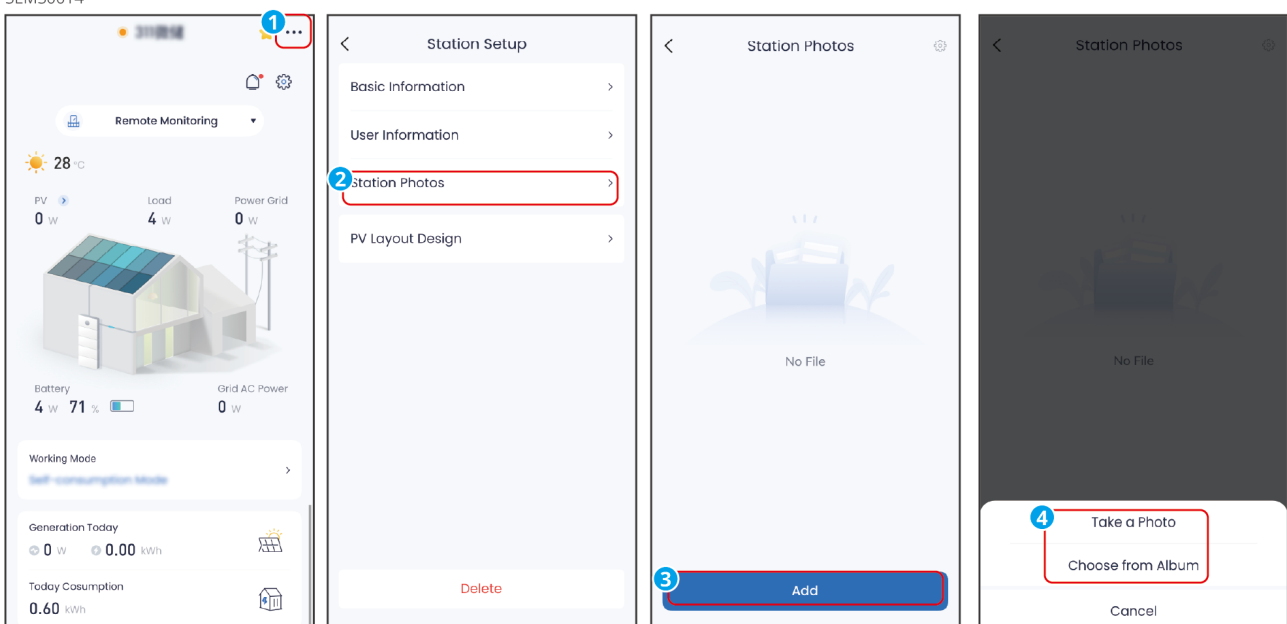
Add photos of power plants to quickly identify different power plants.

Step 1: (Optional) If there are multiple power plants, select the power plant you want to set up in the power plant list interface.

Step 2: On the power station details page, click > "Station Photos"> "Add" to enter the power station photo addition interface.

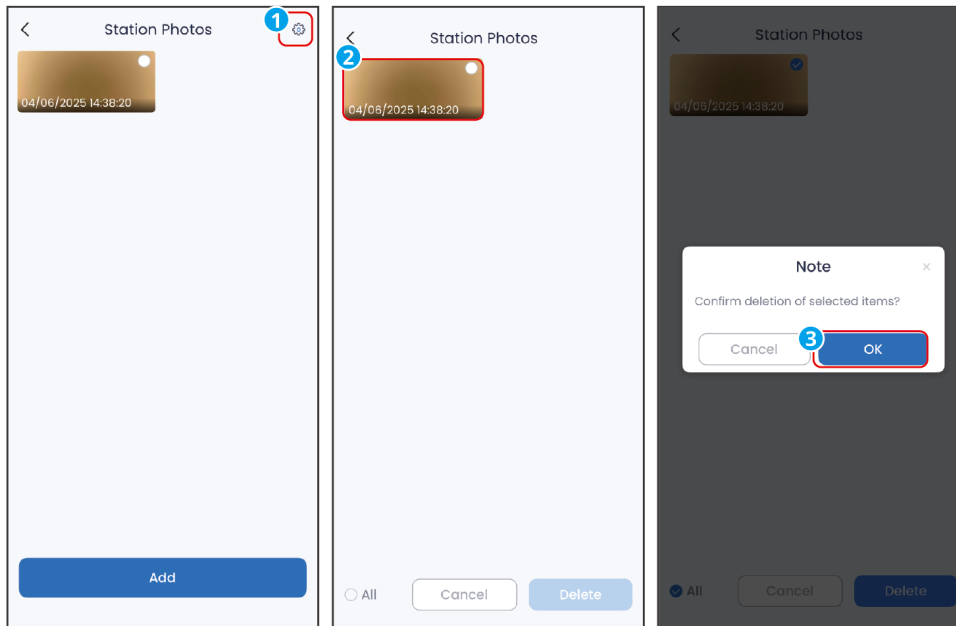
Step 3: Follow the on-screen prompts to add a photo by selecting either "Take Photo" or "Choose from Album".

SEMS0014



If you need to delete power plant photos, please refer to the following steps.

SEMS0055



5.1.4 Deleting Power Plant

NOTICE

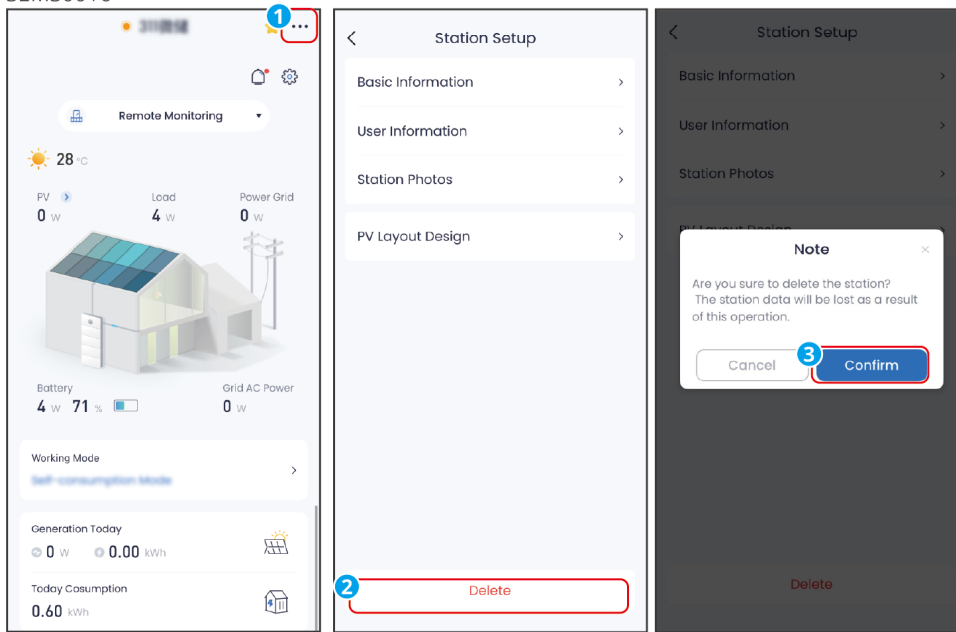
For power plant visitors, deleting a power plant only means unlinking this power plant from the visitor's account.

Step 1: (Optional) If there are multiple power plants, click on the power plant name to enter the power plant details page.

Step 2: Click on the power plant details interface.

Step 3: Click "Delete" > "Confirm" to delete the current power station.

SEMS0016



5.1.5 Set Device Information

- Based on the actual electricity purchase and sale prices set by users and the actual electricity trading data, EzManager can intelligently calculate the revenue of power stations, optimize dispatching, and maximize the benefits of power stations.
- The use of electricity market prices is only supported in some European countries or regions; currently, the electricity market only supports Nord Pool.
- The system supports the setting of dynamic electricity prices, time-of-use electricity prices, or fixed electricity prices:
 - Dynamic electricity price: Obtain dynamic electricity prices from the power company, and dynamically adjust the actual electricity purchase and sale prices by combining with the electricity price surcharge set by the user. Only applicable to certain regions.
 - TOU electricity price: Users set electricity price information for different time periods according to the actual electricity price. Multiple sets of electricity prices can be set.
 - Fixed electricity price: Users set electricity purchase and sale prices according to the actual electricity price.

Step 1: (Optional) If there are multiple power plants, click on the power plant name to enter the power plant details page.

Step 2: Tap > "Electricity Price Settings" to access the electricity price information settings interface.

Step 3: Set time-of-use electricity prices, dynamic electricity prices, or fixed electricity

prices according to actual needs.

SEMS0064

The screenshots illustrate the following steps:

- Home Screen:** Shows station status (31°C, PV 29.90 kW, Load 890 W, Grid 29.01 kW). A red circle with '1' highlights the settings icon in the top right.
- Station Setup:** A menu with options like Basic Information, User Profile, and Station Photos. 'Electricity Price Setting' is highlighted with a red box and a blue circle with '2'.
- Electricity Price Setting:** Shows options for 'Time-of-use Electricity Price' and 'Fixed Electricity Price'. 'Time-of-use Electricity Price' is highlighted with a red box and a blue circle with '3'.
- Dynamic Electricity Tariffs:** Shows import and export rate settings. A red circle with a settings icon is highlighted.
- Time-of-use Electricity Price:** Shows configuration for a specific time period (00:00 - 00:30). A red dashed box highlights the '+' icon in the top right.

No.	Parameter	Description
Dynamic electricity prices		

No.	Parameter	Description
1	Electricity Purchase Rate	- The electricity price when purchasing electricity from the power grid. The system automatically calculates the electricity purchase price by combining the dynamic electricity price obtained automatically from the power company and the additional fee set by the user. - The additional fee refers to the fee that needs to be paid extra at a certain percentage of the electricity fee, in addition to the electricity price, for each billing cycle.
2	Electricity Sale Rate	- The electricity price when selling electricity to the power grid. The system automatically calculates the electricity selling price by combining the dynamic electricity price obtained automatically from the power company and the additional fee set by the user. - The additional fee refers to the extra income that will be obtained at a certain percentage, in addition to the electricity sale price, for each billing cycle.
3	Dynamic Rate Optimization Details	Set the electricity market according to the power station's regional settings.
4	Electricity Price Details	View detailed electricity purchase and sale price curves.
TOU Electricity Price		
5	Monthly Repetition	Set the repeated execution time period for time-of-use electricity prices.
6	Electricity Purchase Rate	When the power station has insufficient energy, it needs to purchase electricity from the power grid. Set the electricity price when purchasing electricity from the power grid.
7	Electricity Sale Rate	Set the electricity price when the power station feeds electricity into the power grid.

No.	Parameter	Description
Fixed Electricity Price		
8	Electricity Purchase Rate	The electricity price when purchasing electricity from the power grid.
9	Electricity Sale Rate	The electricity price when selling electricity to the power grid.

5.2 Managing the Equipment in the Power Plant

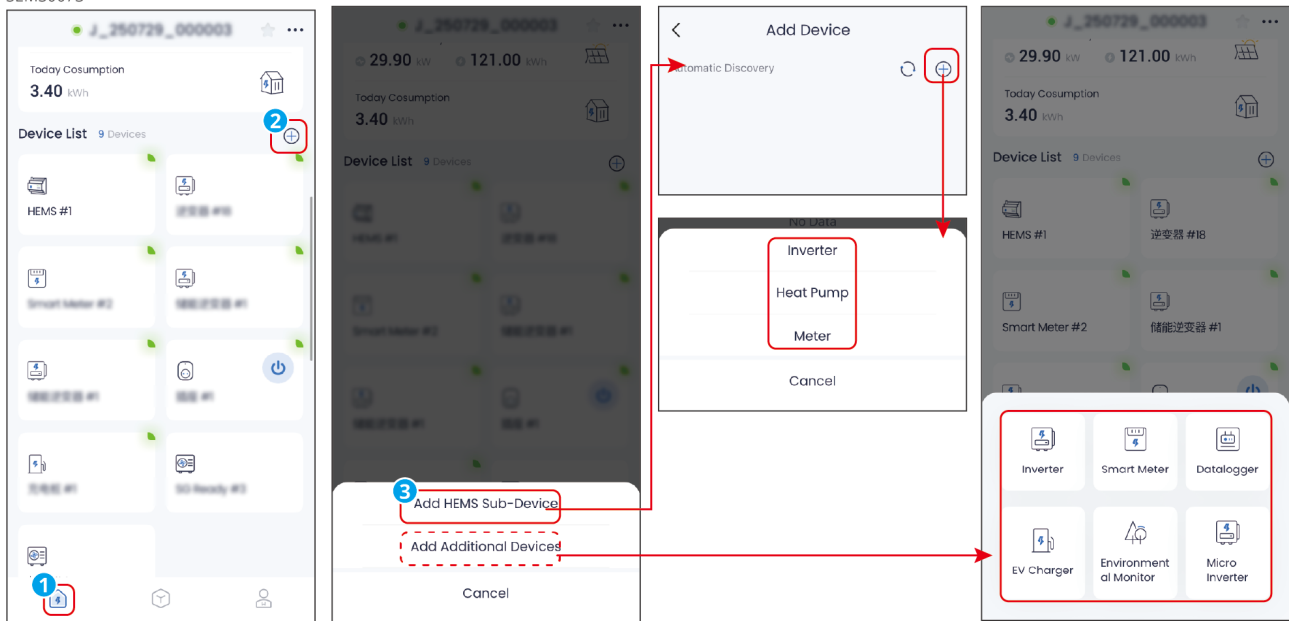
5.2.1 Additional Equipments

Step 1: Click the name of the plant on the plant list page to enter the plant details page.

Step 2: Tap , and select "Add HEMS Sub-device" or "Add Other Devices" according to actual needs.

- Add HEMS Sub-device: Add devices associated with HEMS.
- Add Other Devices: Add devices to the power station that are not HEMS sub-devices and only realize monitoring functions within the same power station.

Step 3: Select the device type according to actual needs and add the device as prompted on the interface. The interface for adding devices varies with different device types, please refer to the actual interface.



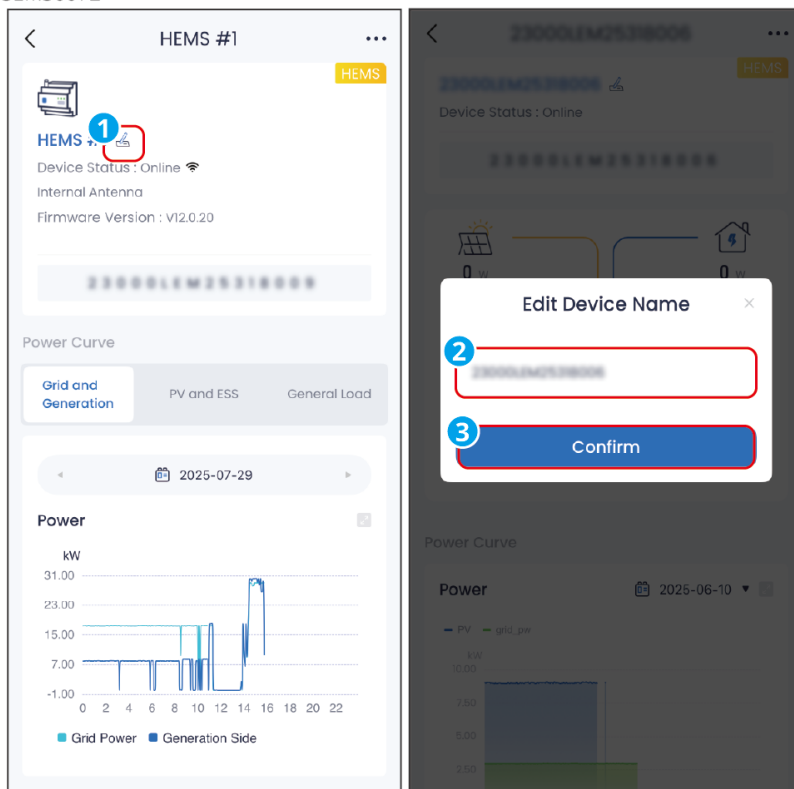
5.2.2 Editing Equipment Information

• Approach 1

Step 1: (Optional) If there are multiple power plants, tap on the power plant name to enter the power plant details page.

Step 2: On the Power Station Details interface, select the device that needs to be modified. Tap , enter the new device name, and then click Confirm.

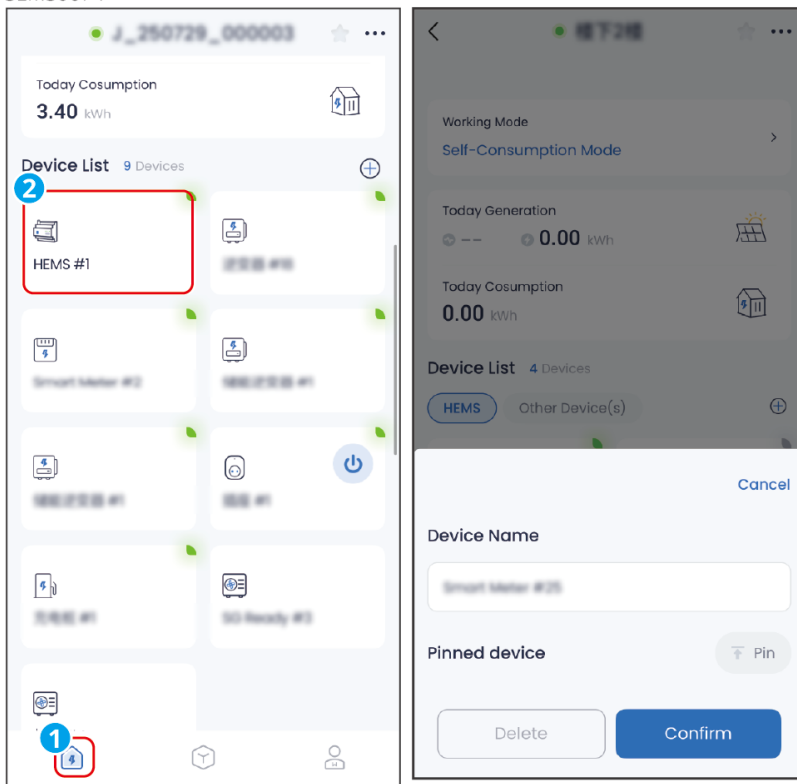
SEMS0072



- **Approach 2**

Step 1: (Optional) If there are multiple power plants, select the power plant you want to set up in the power plant list interface.

Step 2: On the Power Station Details interface, long-press the device card that needs modification to edit the device information.

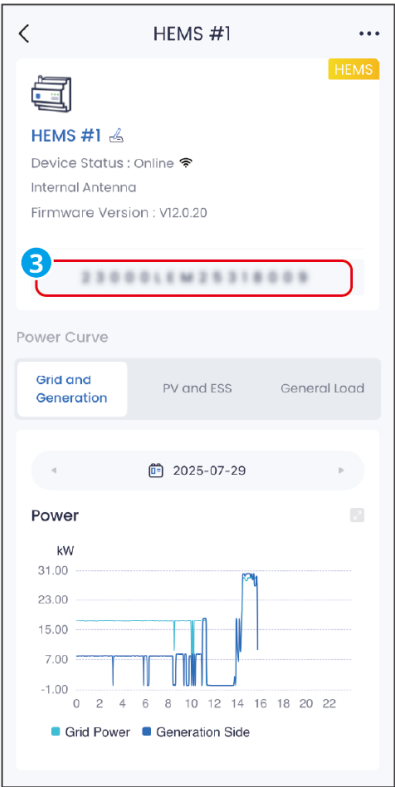


5.2.3 Upgrading Equipment Firmware Version

Step 1: (Optional) If there are multiple power plants, select the power plant you want to set up in the power plant list interface.

Step 2: On the Power Station Details interface, select the device that needs firmware version upgrade.

Step 3: Tap on the device serial number in the middle of the page to enter the Firmware M/S page. If there is an upgrade available, tap Upgrade and follow the instructions on the interface to upgrade your device. Tap to view the firmware upgrade history.



5.3 Viewing Power Plant Information

5.3.1 Viewing Monopower Plant Details



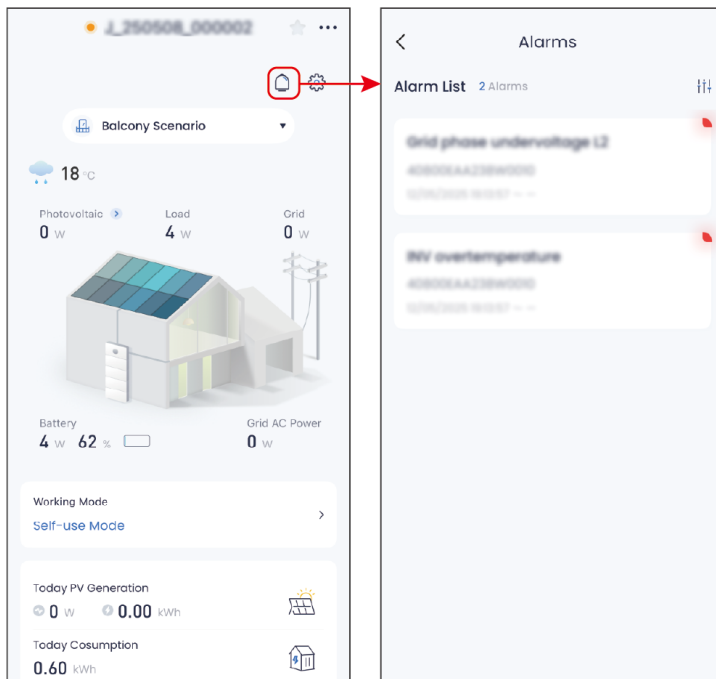
No.	Description
1	Current power plant name.
2	Display the current operation information of the power station.
3	The power station's operating mode and power control mode. Tap to set specific working modes.
4	• Device List. Show EzManager, electricity meters, inverters, charging piles, and other smart devices in the current power station. • The operation status of the device is displayed at the top right corner of the device card. • Tap on the device card to view detailed information about the device.
5	Set grid parameters and device parameters. Support: Setting on-grid parameters, antennas, time, electricity meters, etc.
6	Display today's photovoltaic power generation and electricity consumption power curves.
7	Collect Power Plant.
8	Configure power plant information. Support: Configure basic power plant information, modify user information, add power plant photos, and set electricity price, etc.
9	Alert information. Tap to view detailed alarm information.

5.3.2 Viewing Alarm Information

5.3.2.1 Viewing Alarm Information for the Current Power Plant (Green Power Mode)

Step 1: If there are multiple power plants, click on the power plant name on the power plant list page to enter the power plant details page.

Step 2: Click  to go to the alarm page and check out the alarm details. Click to filter alert information according to actual needs.

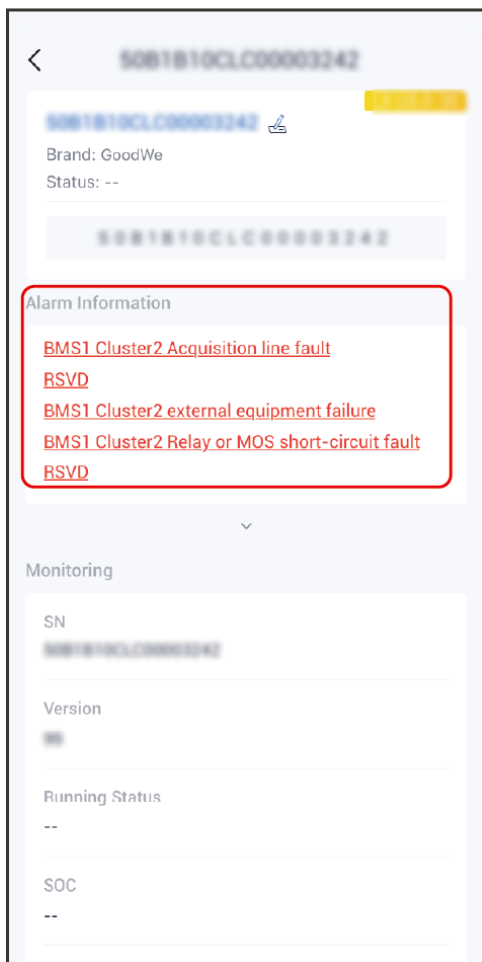


5.3.2.2 Viewing the Current Device's Alarm Information

Step 1: If there are multiple power plants, click on the power plant name on the power plant list page to enter the power plant details page.

Step 2: Select a device from the device list to enter the device details page. If there are any alerts, you can view the 10 most recent alerts directly on the device details page.

SEMS0022



< 50B1B10CLC00003242

50B1B10CLC00003242

Brand: GoodWe

Status: --

50B1B10CLC00003242

Alarm Information

BMS1 Cluster2 Acquisition line fault

RSVD

BMS1 Cluster2 external equipment failure

BMS1 Cluster2 Relay or MOS short-circuit fault

RSVD

Monitoring

SN

50B1B10CLC00003242

Version

1.0.0

Running Status

--

SOC

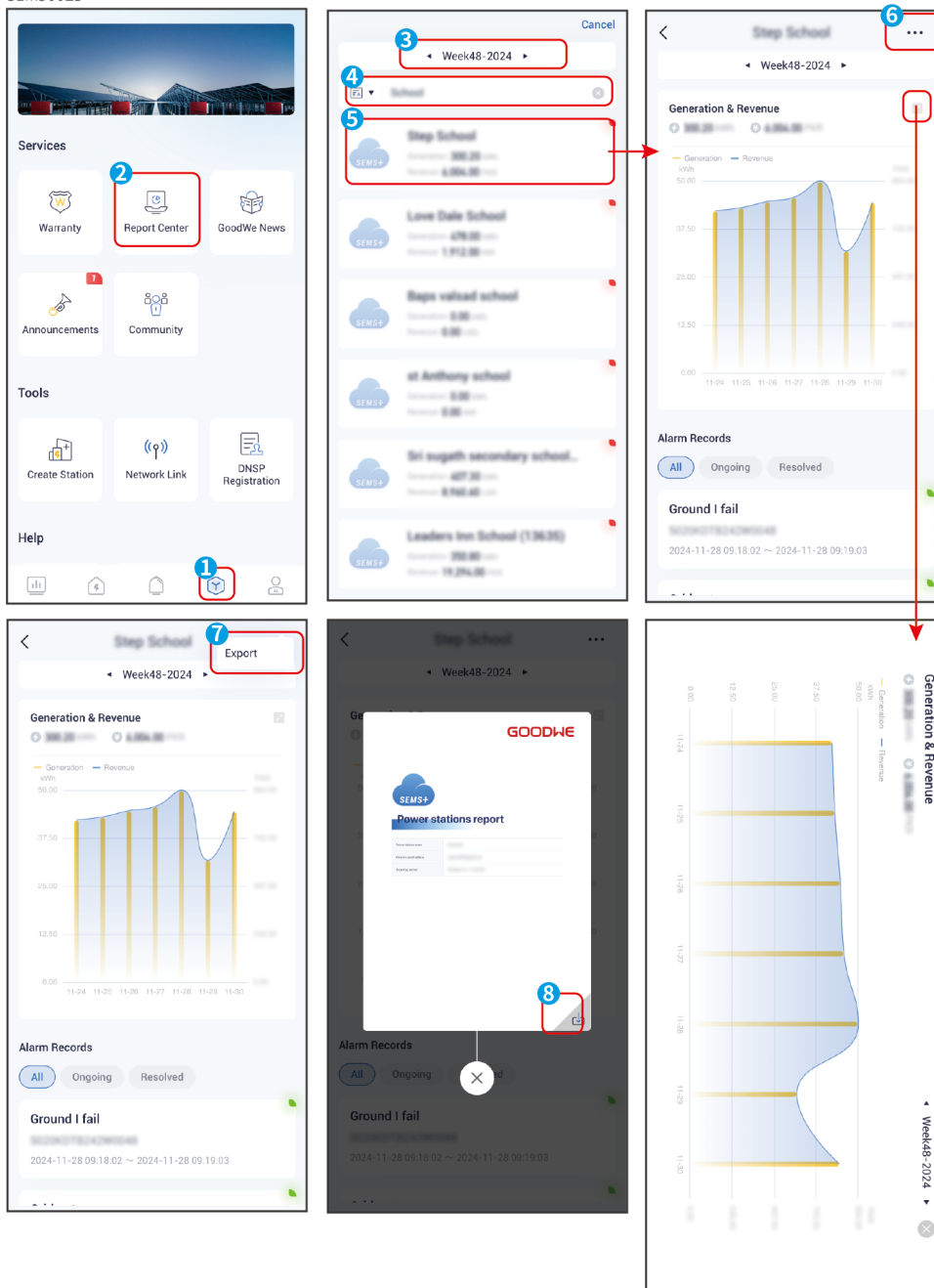
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5.3.3 Viewing Power Plant Report Information

Viewing Power Plant Report

Step 1: Click "Services" > "Report Center" to access the Report Center interface.

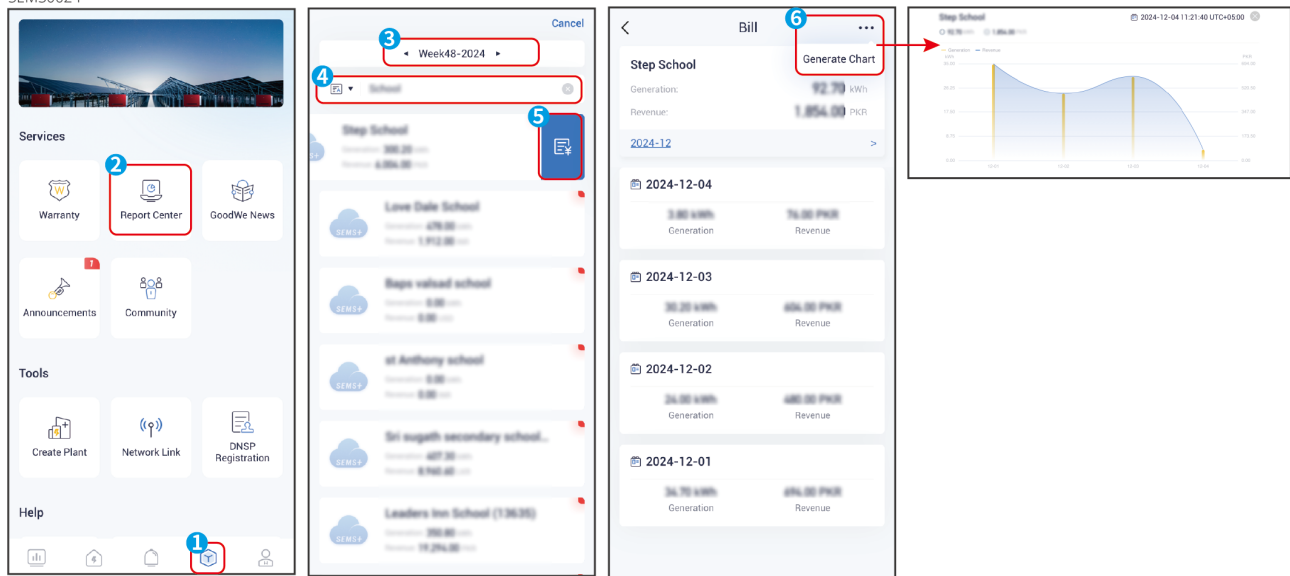
Step 2: Select the time period you want to query, search for the power plant you want to query, and click on the power plant name to enter the report interface. To download the report, click ••• > "Export".



Viewing Power Plant Bills

Step 1: Click "Service" > "Report Center" to access the Report Center interface.

Step 2: Select the time period you want to query, search for the power station you want to query, swipe left and click  to enter the Bill interface to view the bill.



5.4 Setting the Device Parameters

5.4.1 Setting EzManager Parameter

5.4.1.1 Setting Load Control Parameters

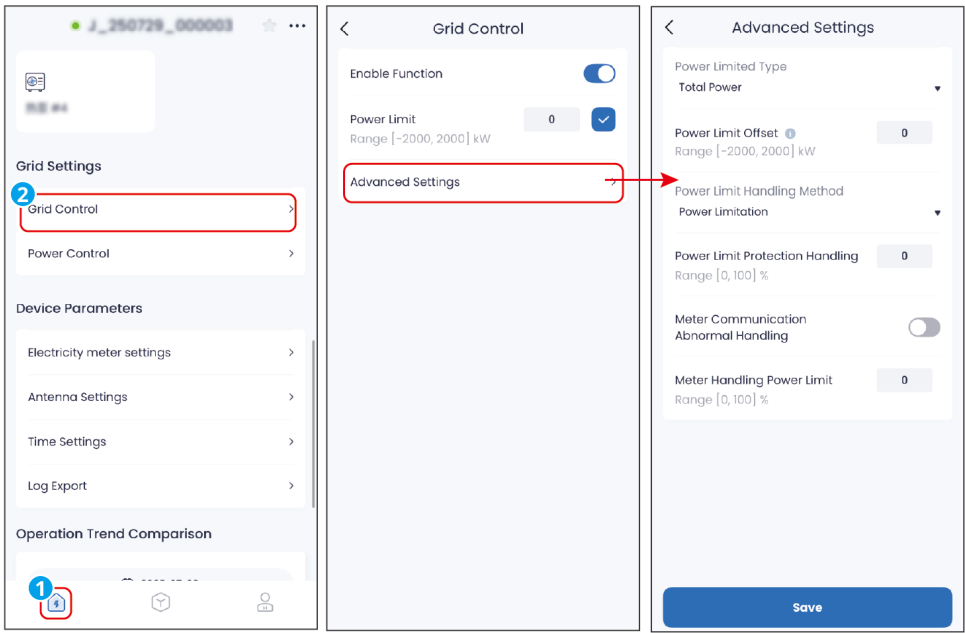
NOTICE

Please set the parameters in accordance with local laws, regulations and grid standard requirements.

Approach 1

Step 1: On the Power Station Details interface, click "Grid Control" to enter the power limit parameter setting page.

SEMS0077



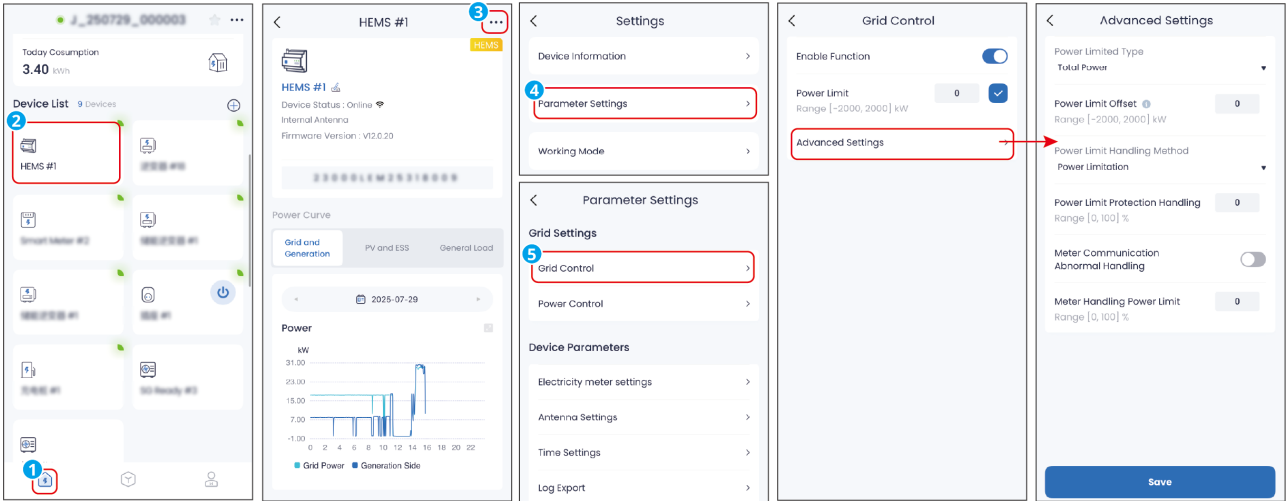
Approach 2

Step 1: On the Power Station Details interface, select the HEMS device from the device list.

Step 2: On the Device Details interface, click the **...** in the upper right corner.

Step 3: Access the power limit parameter setting page via "Parameter Settings" > "Grid Control".

SEMS0066



No.	Parameter	Description
1	Whether to Enable / Enable or Not	According to the grid standard requirements of certain countries or regions, turn on this function when it is necessary to limit the output power.

No.	Parameter	Description
2	Anti Reverse Power Failure	Set the value based on the actual maximum power feed into the utility grid.
3	Limitation Method	Select the method for controlling the device's output power based on actual conditions. Total Power: Control the total power at the on-grid point to not exceed the output power limit. Single-Phase Power: Control the power of each phase at the grid-connection point to not exceed the output power limit.
4	The On-grid Power Limit	Set the adjustable range of the maximum power that the device can actually purchase from the power grid. Maximum Power Fed to Grid = Maximum Grid-Feeding Power + Maximum Grid-Feeding Power Offset Value.
5	Backflow Protection Handling Method	When the system has a backflow phenomenon that exceeds the maximum protection time (5 seconds by default), the following protection measures can be taken: • Power Limitation: The device continues to operate at a percentage of its rated power. • Device Grid Disconnection.
6	Backflow Protection Handling Power Limit	The device continues to operate at a percentage of its rated power.
7	Smart Meter Communication Abnormality Handling	Enable this function, and protection measures will be taken when there is a communication abnormality between the electricity meter and the device.

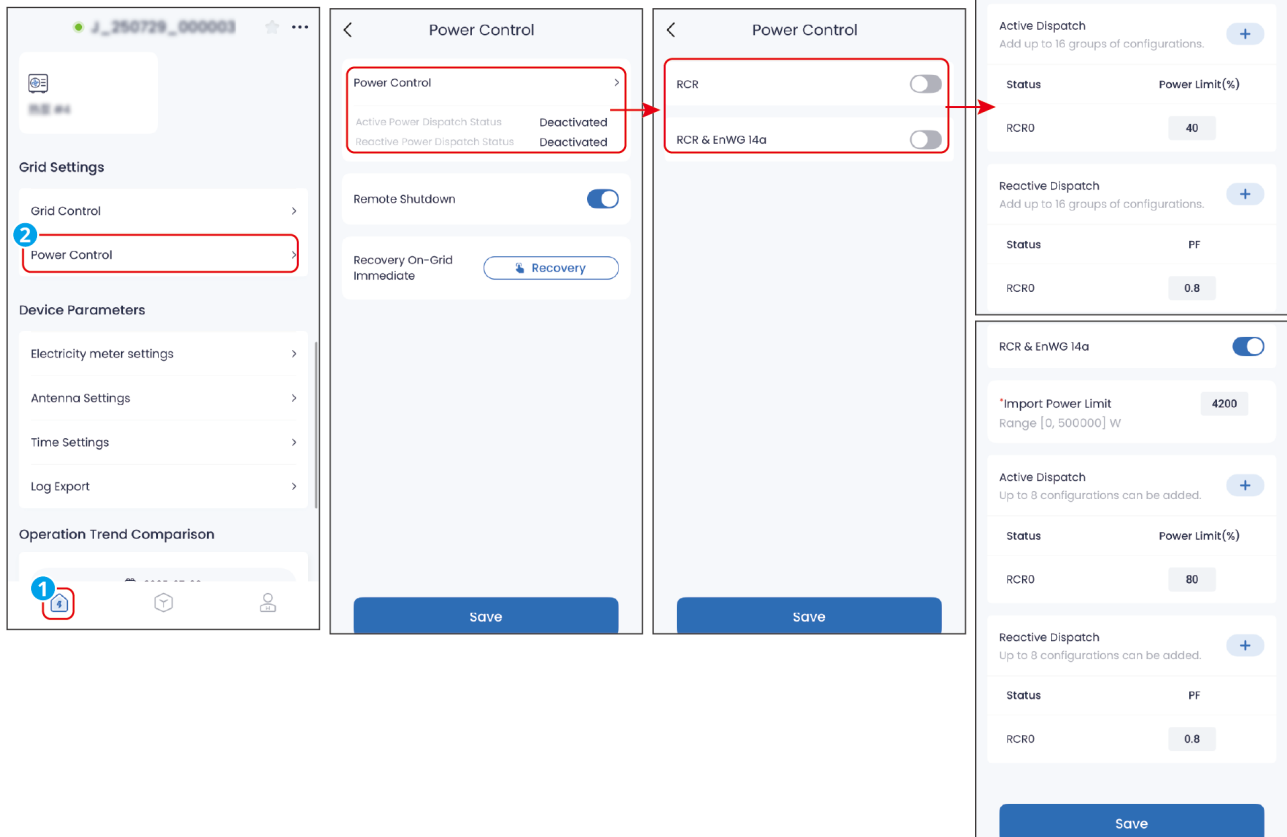
No.	Parameter	Description
8	Smart Meter Abnormality Handling Method	When smart meter communication abnormality occurs in the system, the following protection measures can be adopted: • Power Limitation: The device continues to operate at a percentage of its rated power. • Device Grid Disconnection.
9	Power Limit for Smart Meter Handling	The device continues to operate at a percentage of its rated power.

5.4.1.2 Setting the On-Grid Power Limit

Approach 1

Step 1: On the Power Station Details interface, tap "Grid Control" to enter the power limit parameter setting page.

SEMS0078

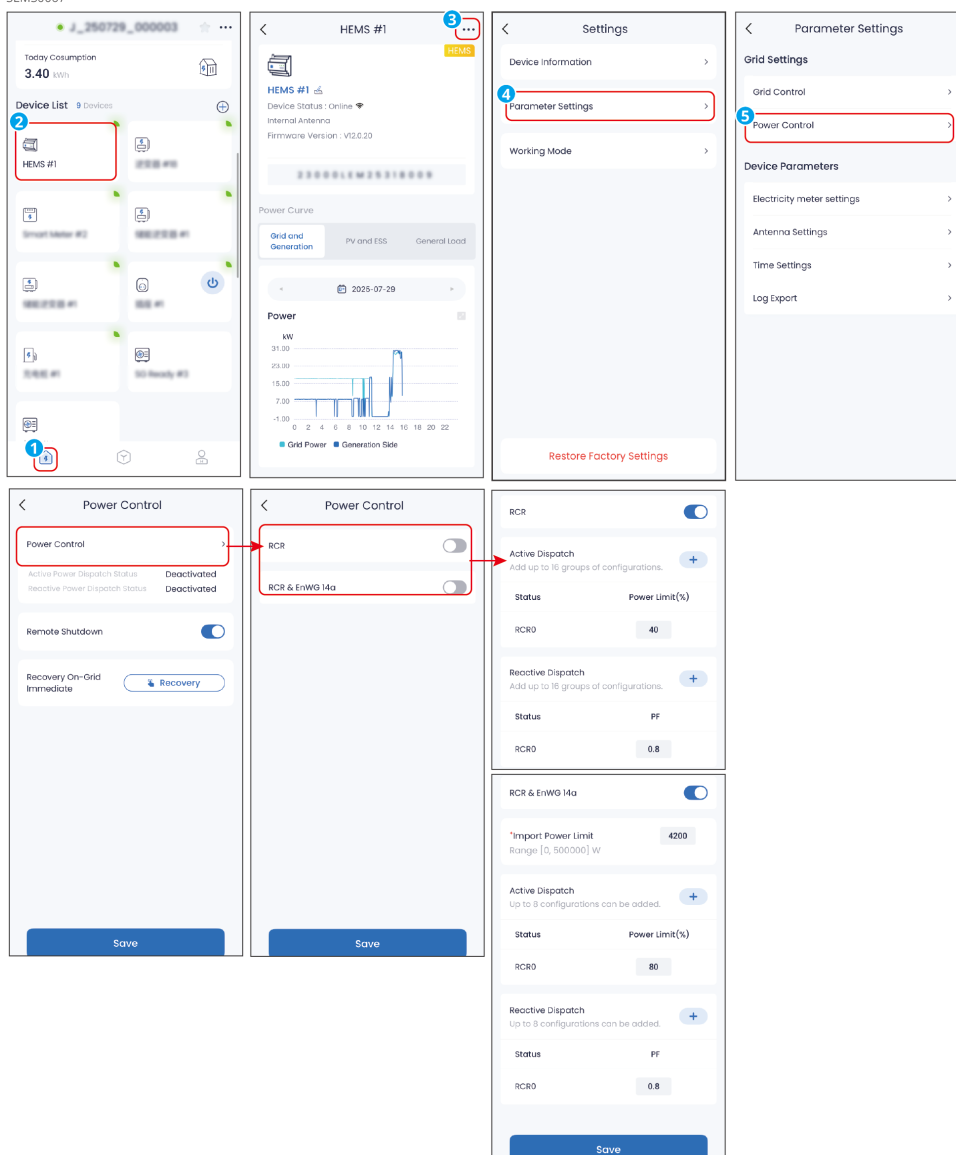


Approach 2

Step 1: On the Power Station Details interface, select the HEMS device from the device list.

Step 2: On the Device Details interface, click the  in the upper right corner.

Step 3: Access the parameter setting page via "Parameter Settings" > "Power Control".



No.	Parameter	Description
RCR: In accordance with the standard requirements of regions such as Germany, the device must provide an RCR signal control port to meet the grid dispatching requirements.		
1	RCR	Enable or disable RCR.

No.	Parameter	Description
2	Active Scheduling	• According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding percentage. The percentage refers to the ratio of the system's output power to its rated power (expressed as a percentage). • Configuration of 16 levels of percentage values is supported; please set them according to the actual requirements of the power grid company. • Do not set duplicate state combinations for DI1-DI4, otherwise the function will not work properly. • If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.
3	Reactive Scheduling	• According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding PF value. • Configuration of 16 levels of power factor is supported; please set them according to the actual requirements of the power grid company. • PF value range requirement: [-100, -80] or [80, 100]. The range [-100, -80] corresponds to a lagging power factor of [-0.99, -0.8], and [80, 100] corresponds to a leading power factor of [0.8, 1]. • Do not set duplicate state combinations for DI1-DI4, otherwise the function will not work properly. • If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.

No.	Parameter	Description
RCR&EnWG 14a:		
- RCR (Ripple Control Receiver): The device must provide an RCR signal control port to meet the grid dispatching requirements in regions such as Germany. - For regions where the EnWG 14a regulation applies, all controllable loads must accept emergency dimming from the power grid. The power grid operator may temporarily reduce the maximum grid power purchase capacity of controllable loads to 4.2kW.		
4	RCR&EnWG 14a	Enable or disable 14a.
5	The On-grid Power Limit	Set the upper limit of power purchased from the grid in accordance with the requirements of local grid regulations.
6	Active Scheduling	- The DI4 port is fixed for EnWG 14a. - According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding percentage. The percentage refers to the ratio of the system's output power to its rated power (expressed as a percentage). - Configuration of 8 levels of percentage values is supported; please set them according to the actual requirements of the power grid company. - Do not set duplicate state combinations for DI1-DI3, otherwise the function will not work properly. - If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.

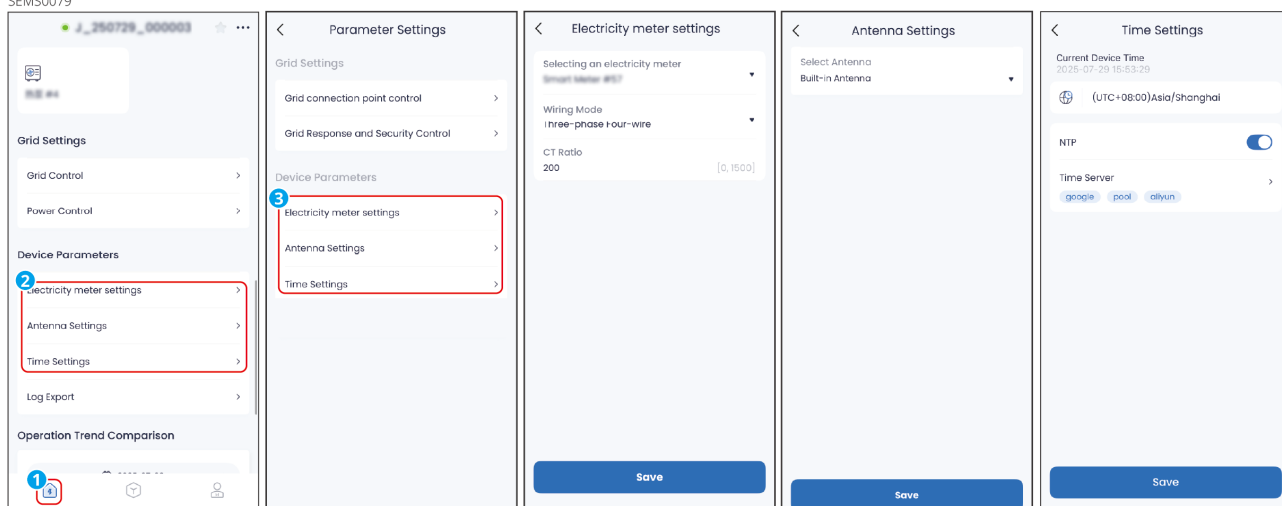
No.	Parameter	Description
7	Reactive Scheduling	- The DI4 port is fixed for EnWG 14a. - According to the requirements of the power grid company and the type of RCR fixture, check one or more DI ports and set the corresponding PF value. - Configuration of 8 levels of power factor is supported; please set them according to the actual requirements of the power grid company. - PF value range requirement: [-100, -80] or [80, 100]. The range [-100, -80] corresponds to a lagging power factor of [-0.99, -0.8], and [80, 100] corresponds to a leading power factor of [0.8, 1]. - Do not set duplicate state combinations for DI1-DI3, otherwise the function will not work properly. - If the wiring of the actually connected DI port does not match the set value, the operating state will not take effect.
Remote Shutdown: In accordance with the requirements of certain countries or regions, the device must be equipped with a remote shutdown function to control the device to stop operating in emergency situations.		
8	Remote Shutdown	Enable or disable Remote Shutdown.
9	CONNECTING TO THE GRID	If you need to resume the On-grid state after the device is OFF, first manually turn on the device, then tap "Resume On-Grid Immediately".

5.4.1.3 Setting other Parameters

Approach 1

Step 1: On the Power Station Details interface, select the parameter to be set under "Device Parameters" to access the Parameter Settings interface.

SEMS0079



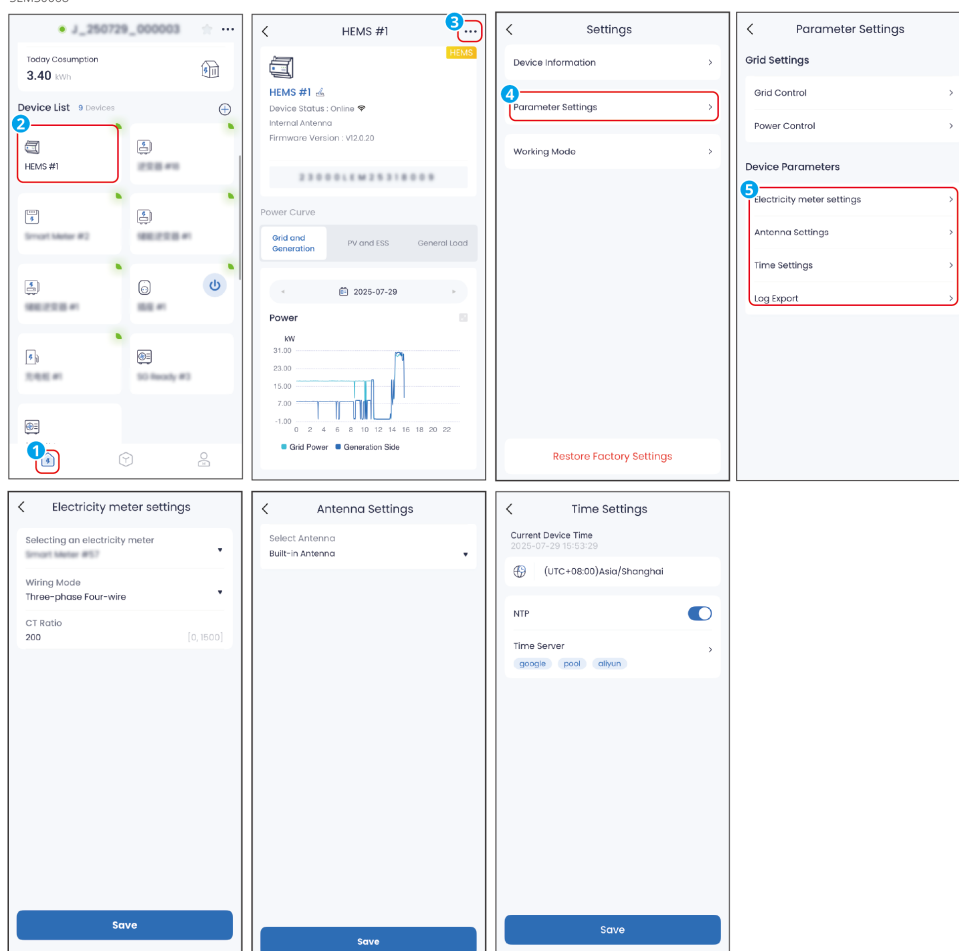
Approach 2

Step 1: On the Power Station Details interface, select the HEMS device from the device list.

Step 2: On the Device Details interface, click the in the upper right corner.

Step 3: Tap "Parameter Settings", select the parameter to be set to access the Parameter Settings interface.

SEMS0068



No.	Parameter	Description
Smart Meter Setting		
1	Select Smart Meter	Select the model of the actually connected electricity meter.
2	Wiring Mode	Set the wiring method of the electricity meter. Supported modes: • Single-phase single-wire • Three-phase three-wire • Three-phase four-wire
3	CT Ratio	• Set when the electricity meter model is GM330. • Set the CT ratio value of the electricity meter.
Antenna Settings		
4	Select Antenna	Select internal antenna or external antenna according to the actual situation.
Time Settings		
5	Network Time Calibration	After enabling, select a time server and perform time synchronization according to the selected time source.
6	Time Server	Set the time server Supports: • time.google.com • pool.ntp.org • ntp.aliyun.com

5.4.1.4 Exporting Logs

NOTICE

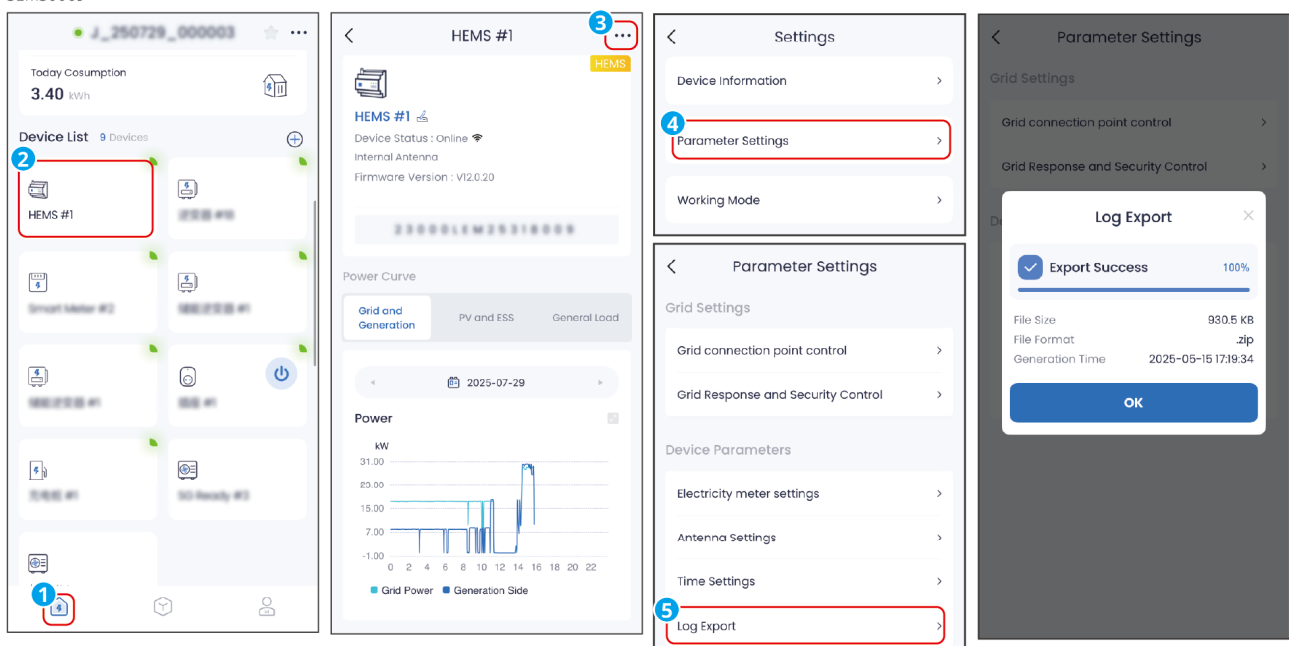
Before exporting logs, confirm that EzManager and your mobile phone are connected to the same router.

Step 1: On the Power Station Details interface, select the HEMS device from the device list.

Step 2: On the Device Details interface, click the **⋮** in the upper right corner.

Step 3: Export the operation logs of EzManager via "Parameter Settings" > "Log Export".

SEMS0069



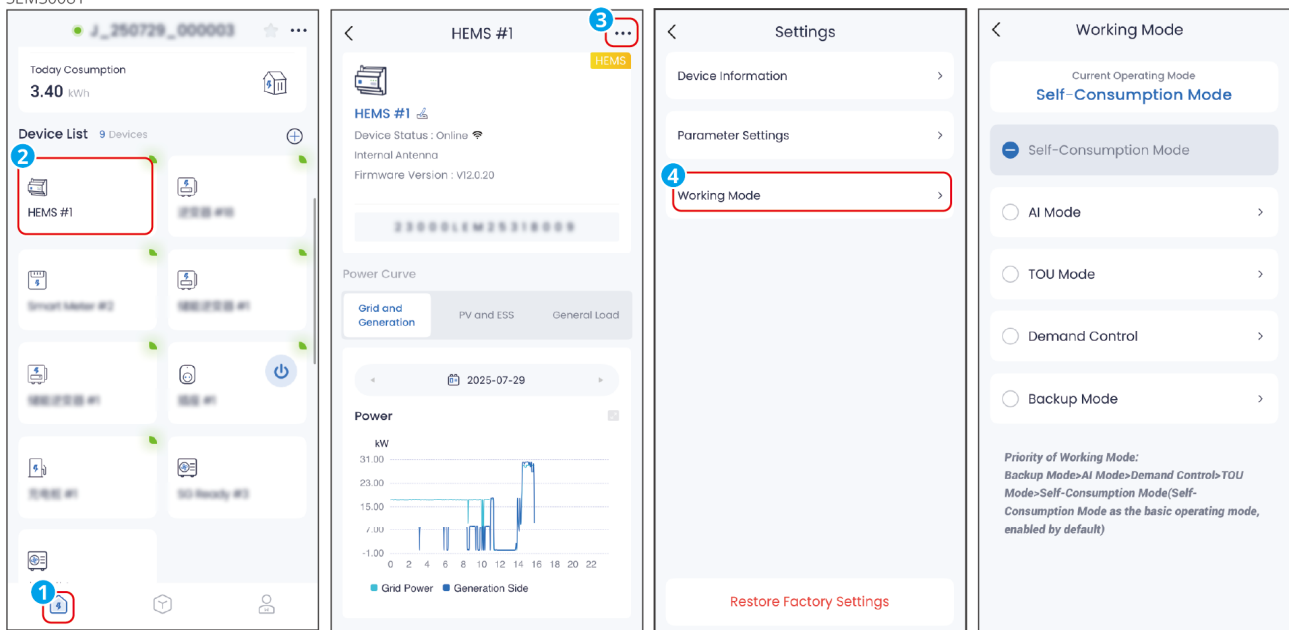
5.4.1.5 Tap to set specific working modes

Approach 1

Step 1: On the Power Station Details interface, select the HEMS device from the device list.

Step 2: On the Device Details interface, tap the **⋮** > working mode in the upper right corner.

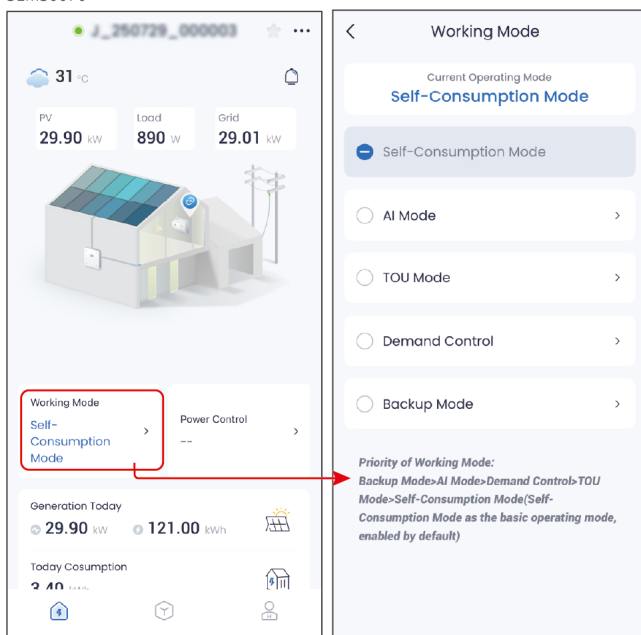
SEMS0081



Approach 2

Step 1: Tap on the power plant details interface“”.

SEMS0070



SEMS0071

AI Mode

Electricity Tariffs*

TOU Electricity Tariffs

TOU Mode

Time Period

Add up to 8 time periods

01:00 - 02:00

Monthly Repetition

January

Weekly Repetition

Sunday

Charge/Discharge Mode

Charge

End-of-charge SOC of Imported Power

10 %

Imported Power Peak Shaving

50 %

Demand Control

Peak Shaving Backup SOC Upper Limit

0

Range [0, 100] %

Peak Power Setting

Backup Mode

Off-grid Backup SOC

0

Range [0, 100] %

Charging from Grid Enable

Charging from Grid Power

0

Range [0, 100] %

No.	Parameter	Description
AI Mode: Set the electricity price according to the user needs, and combine AI calculation for optimized dispatching to maximize energy efficiency. When using AI Mode, during the initial stage of collecting power station information, there may be deviations between the predicted curve and the actual situation.		

No.	Parameter	Description
1	Electricity Price	Select TOU (Time-of-Use) electricity price, fixed electricity price, or dynamic electricity price. Supported options are as follows: • Dynamic electricity price: Obtain dynamic electricity prices from the power company, and dynamically adjust the actual electricity purchase and sale prices by combining with the electricity price surcharge set by the user. • Fixed electricity price: Users set electricity purchase and sale prices according to the actual electricity price. • TOU electricity price: Users set electricity price information for different time periods according to the actual electricity price. Multiple sets of electricity prices can be set. • When using AI Mode for the first time, if the electricity price information has not been set, please jump to the electricity price setting page to set the electricity price information as prompted on the interface.
TOU Mode: It is recommended to use TOU mode in scenarios when the peak-valley electricity price varies a lot. Select TOU mode only when it meets the local laws and regulations. Based on actual needs, during off-peak hours, the battery can be set to charging mode to purchase electricity from the grid for charging; during peak hours, the battery can be set to discharge mode to supply power to the load through the battery.		
2	Repetition (Months)	During the period between the start time and end time, the battery will charge or discharge in accordance with the set charge-discharge mode and its rated power.
3	Repetition (Weeks)	
4	Charge and discharge mode	Set functions according to actual needs.

No.	Parameter	Description
5	Grid-Purchased Power Charge Cut-off SOC	The battery stop charging once the battery SOC reaches Charge Cut-off SOC.
6	Nominal Power	The percentage of power purchased compare to the rated power of the inverter.
7	Discharge Power Limit	The percentage of power purchased compare to the rated power of the inverter.
Mainly applicable to scenarios where the peak power consumption is limited. When the total power consumption of the load exceeds the power quota within a short period of time, battery discharge can be used to reduce the amount of power consumption exceeding the quota.		
8	Demand management SOC Upper Limit:	In the demand management mode, the battery SOC is lower than the Peak Shaving Backup SOC Upper Limit. When the battery SOC is higher than the Peak Shaving Backup SOC Upper Limit, the demand management function becomes invalid.
9	Peak Power Setting	Set the maximum power limit allowed for purchasing electricity from the grid. When the power consumed by the load exceeds the sum of the electricity generated by the photovoltaic system and this limit, the excess power will be supplemented by battery discharge.
BACK-UP Mode: Recommended for use in areas with unstable power grids. When the grid is disconnected, the inverter turns to off-grid mode and the battery will supply power to the BACKUP loads; when the grid is restored, the inverter switches to on-grid mode.		
10	Off-Grid Backup SOC	To ensure that the battery SOC is sufficient to maintain normal operation when the system is off-grid, the battery will purchase electricity from the grid and charge to the set SOC protection value when the system is connected to the grid.

No.	Parameter	Description
11	Enable charging from grid	Use this function, enable the system to purchase power from the utility grid.
12	Charging Power	The percentage of power purchased compare to the rated power of the inverter.

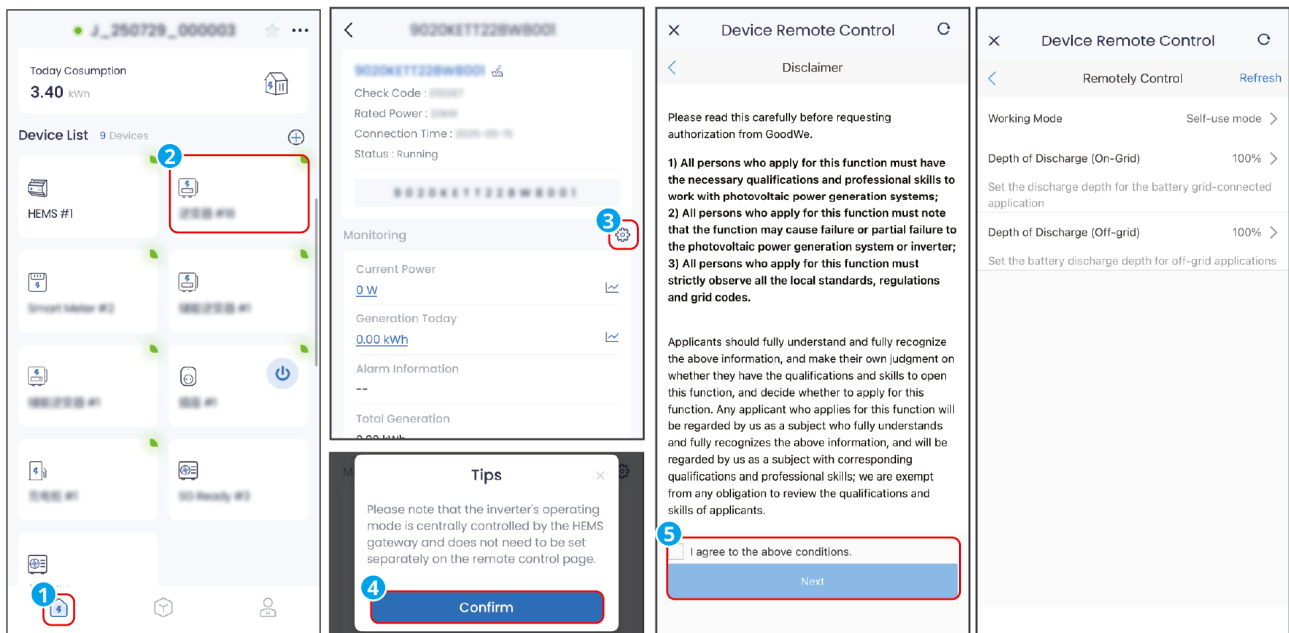
5.4.2 Setting Energy Storage Inverter Parameters

Step 1: On the Power Station Details interface, select the Energy Storage Inverter device from the device list.

Step 2: Click the  on the Device Details interface.

Step 3: Follow the prompts on the interface to enter the “Device Remote Control” interface and set the parameters according to your actual needs.

SEMS0065



No.	Parameter	Description
1	Working Mode	After a device is connected to EzManager, its working mode shall be subject to the EzManager working mode, and the settings here will not take effect.

No.	Parameter	Description
2	Depth of Discharge (On-Grid)	The maximum depth of discharge of the battery when the system is working on-grid.
3	Depth of Discharge (Off-Grid)	The maximum depth of discharge of the battery when the system is working off-grid.

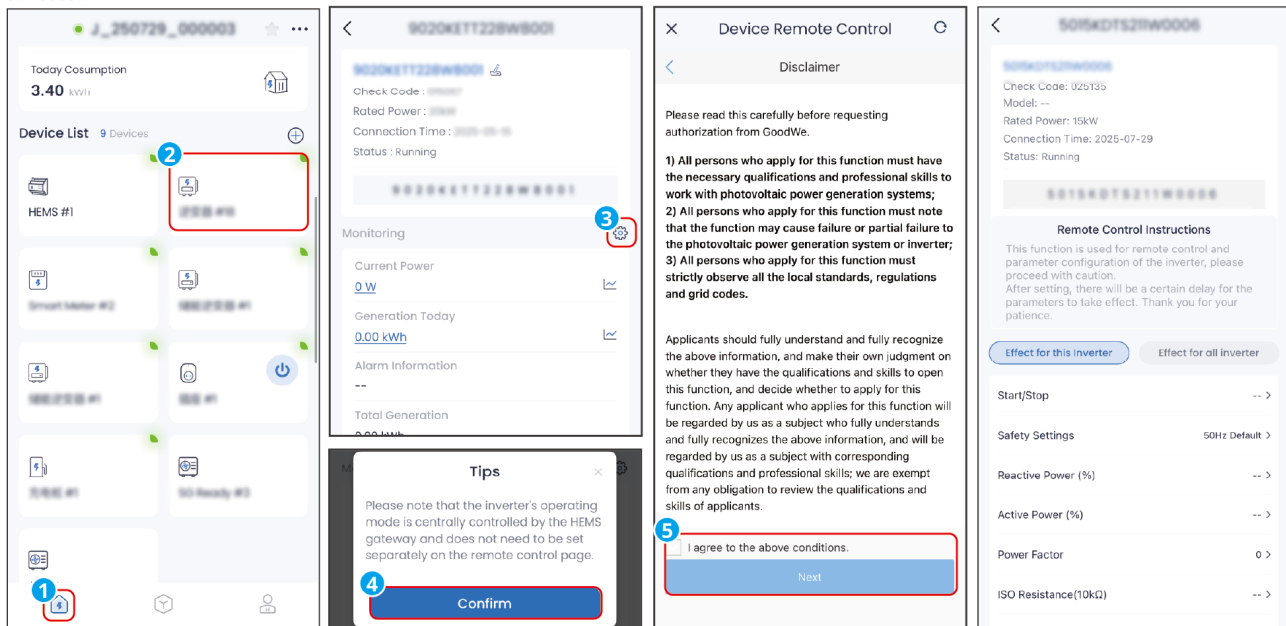
5.4.3 Setting Energy Storage Inverter Parameters

Step 1: On the Power Station Details interface, select the Energy Storage Inverter device from the device list.

Step 2: Click the  on the Device Details interface.

Step 3: Follow the prompts on the interface to enter the “Device Remote Control” interface and set the parameters according to your actual needs.

SEMS0082



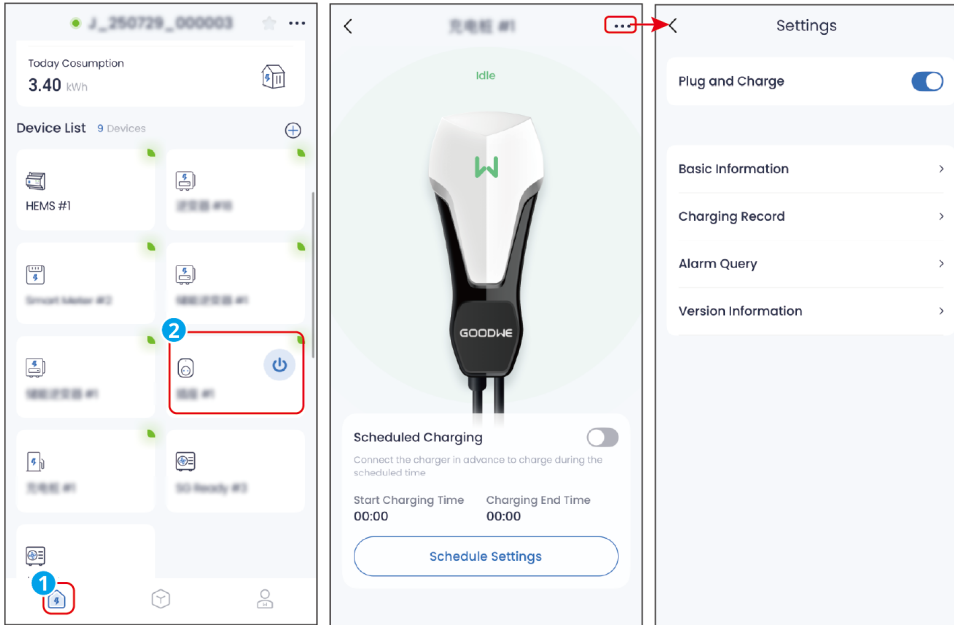
No.	Parameter	Description
1	Effective for This Inverter / Effective for All Inverters	- Effective for This Inverter: The following parameter settings only take effect for this inverter. - Effective for All Inverters: The following parameter settings take effect for all inverters in the network.
2	Start/Stop	- Starting: The inverter starts self-inspection and connects to the grid after the self-inspection is completed. - Stop: The inverter stops grid connection.
3	Safety Settings	Set the safety country/region in compliance with the local grid standard and application scenario of the inverter. After selecting the safety standard, the default values of the inverter's parameters at the factory have been configured in accordance with the requirements of the selected safety standard (for different types of safety standards).
4	Reactive Power (%)	Set the inverter reactive power output value. For example: When the setting value is 5%, it means the active power output value of the inverter = the inverter rated power * 5%.
5	Active Power (%)	Set the power factor of the inverter.
6	Power Factor	Set the inverter active power output value. For example: When the setting value is 90%, it means the active power output value of the inverter = the inverter rated power * 90%.
7	ISO Resistance	Set it as the threshold value of the insulation impedance of PV-PE. When the actual value is detected to be less than the setting value, IOS fault will be reported.

5.4.4 Setting the Charging Pile Parameters

Step 1: On the power station details page, select the charging pile device from the device list.

Step 2: Set the charging pile's working mode according to actual needs, such as scheduled charging, plug-and-charge, etc. Or query charging pile-related information, such as charging records, alarm records, version information, etc.

SEMS0080

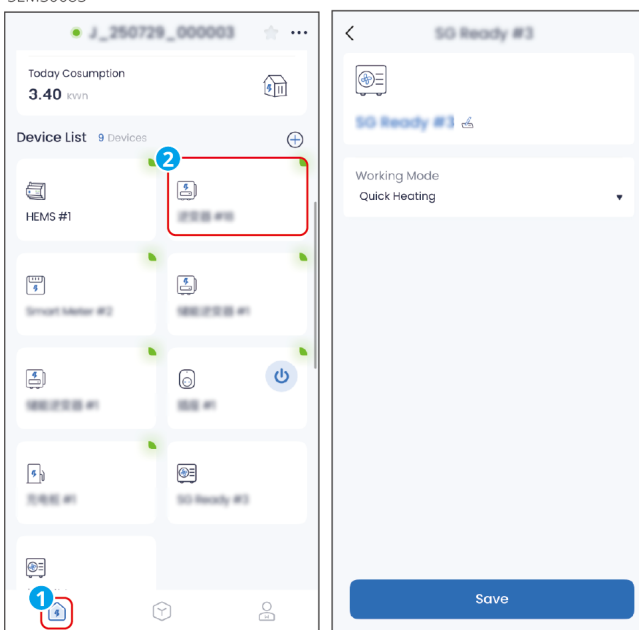


5.4.5 Setting the Heat Pump Parameters

Step 1: On the power station details page, select the charging pile device from the device list.

Step 2: Set the heat pump's operating mode according to actual needs, such as economy mode, rapid heating, etc.

SEMS0083

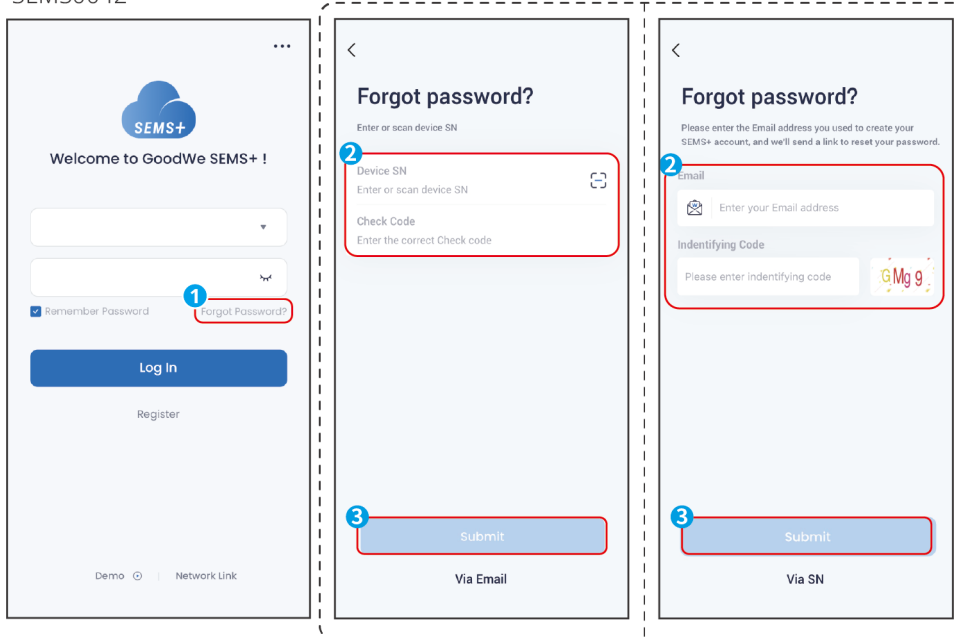


6 FAQs

6.1 How to Retrieve a Password

On the login page, click "Forgot Password", and select to retrieve the password via email verification or device SN verification based on your actual situation.

SEMS0042

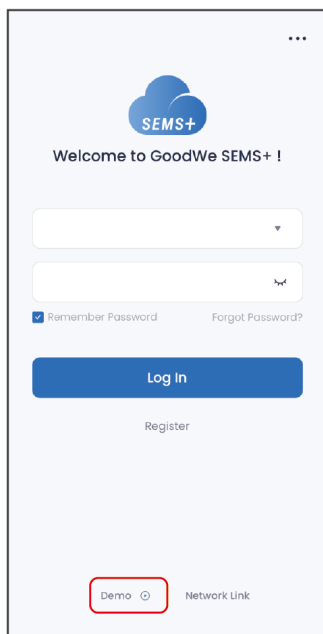


6.2 How to Use Demo Mode

The Demo interface displays content corresponding to the viewer account permission, and the page is for reference only.

Step 1: On the App's homepage, click "Demo" to use it.

SEMS0043

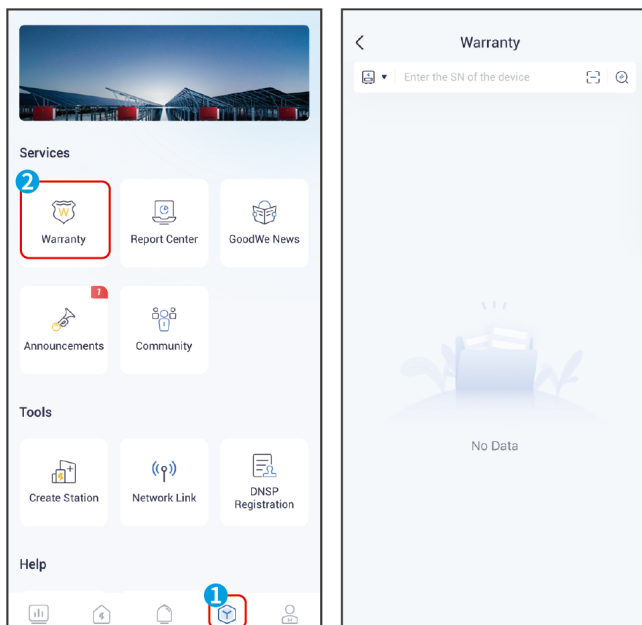


6.3 How to View Warranty Information

Step 1: Tap the "Service" tab > "Warranty" to enter the warranty inquiry page.

Step 2: Query the detailed warranty information of the corresponding device via the device's SN.

SEMS0044

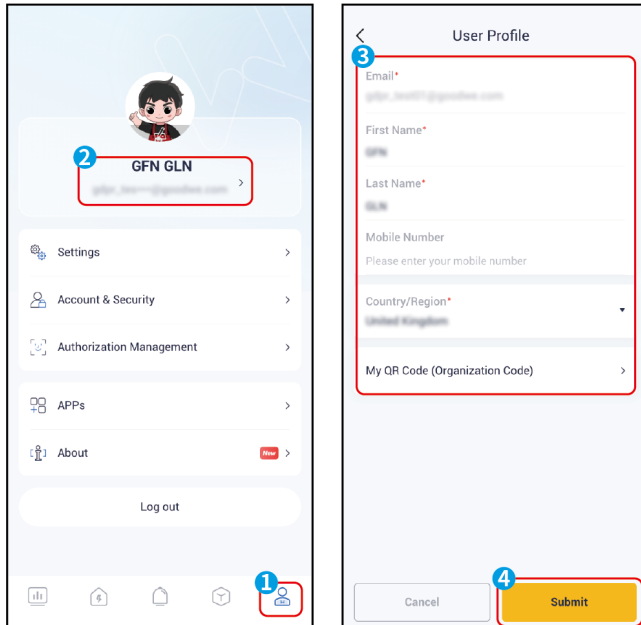


6.4 How to Modify Basic Account Information

Step 1: Tap the "My" tab, and then tap the username to enter the "User Information" interface.

Step 2: Modify the user information according to the actual situation.

SEMS0045

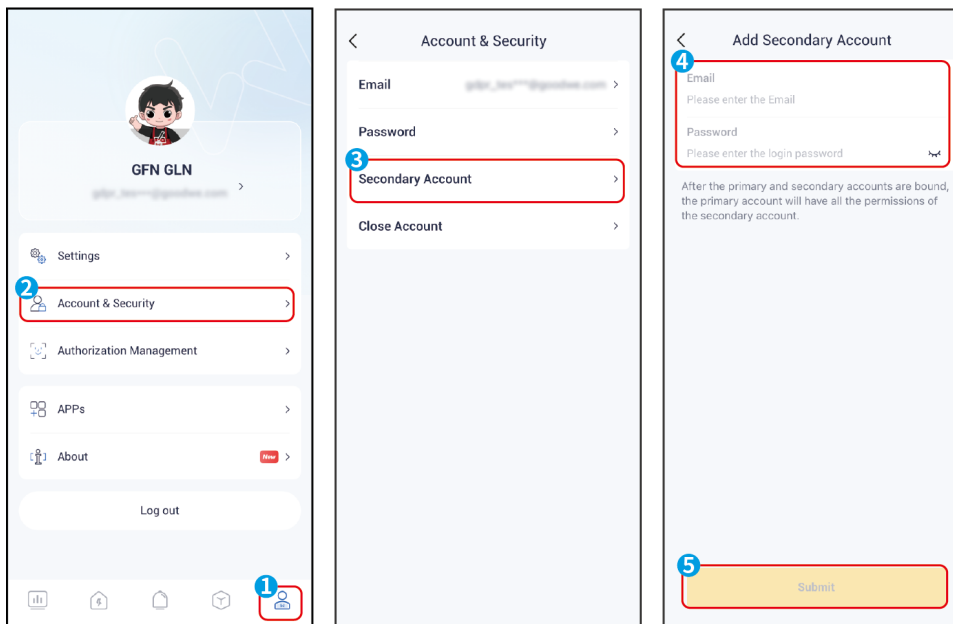


6.5 How to Add a Secondary Account

Step 1: On the "Me" interface, tap "Account Safety".

Step 2: Tap "Secondary Account", enter the relevant information of the secondary account, and then tap "Submit".

SEMS0046

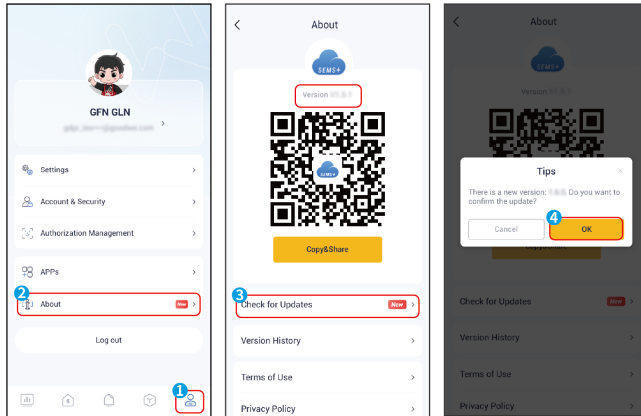


6.6 How to Check or Update the App Version

Step 1: On the "Me" interface, tap "About".

Step 2: You can view the current App version above the App download QR code. Tap "Check for Updates" to update to the latest version of the App.

SEMS0047

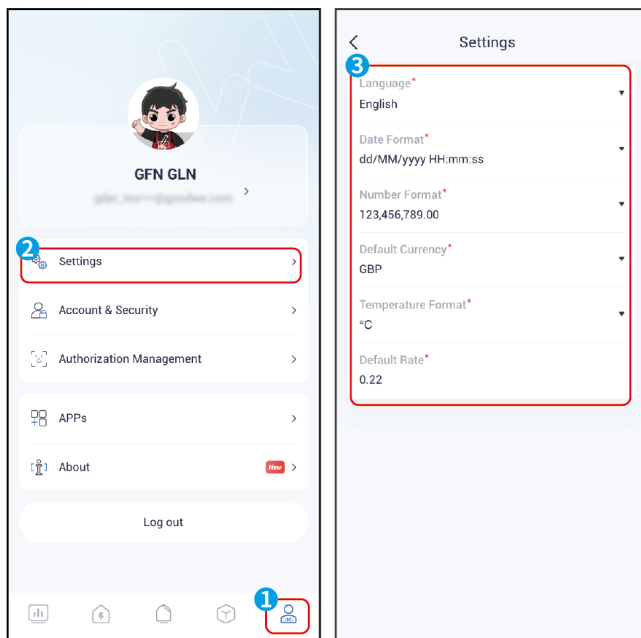


6.7 How to Set the Display Unit Format

Step 1: On the "Me" interface, tap "Settings".

Step 2: Configure language, date format, currency, temperature units, and return rate based on your preferences.

SEMS0038



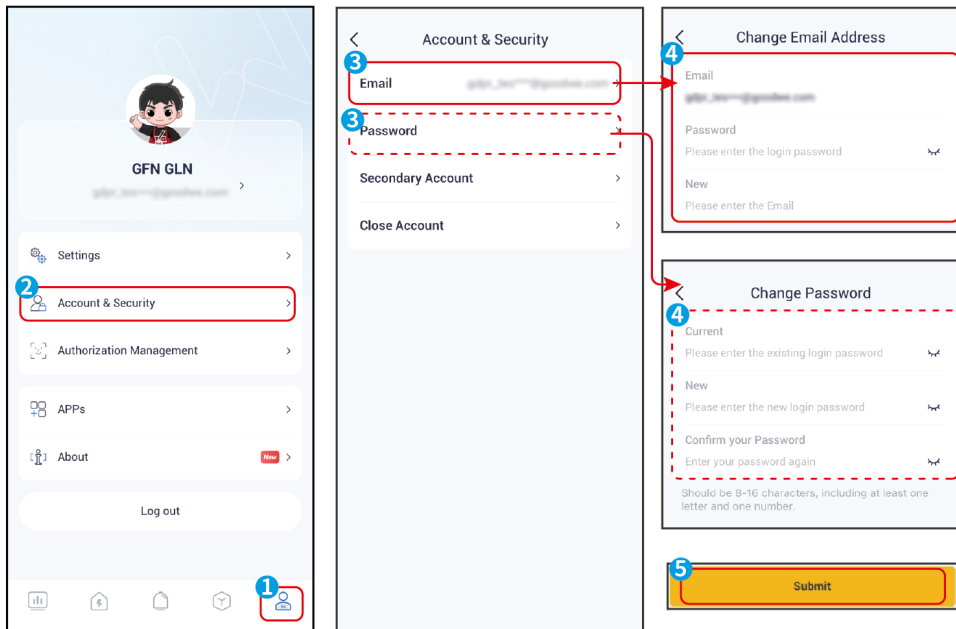
6.8 How to set Account Security Information

To enhance account security, you can modify the email address linked to your account or login password.

Step 1: On the "Me" interface, click "Account Security".

Step2: Modify the email address linked to your account or change your account number and password. Click "Submit" to save changes.

SEMS0039



6.9 4.5.3 Setting Monitoring Auth

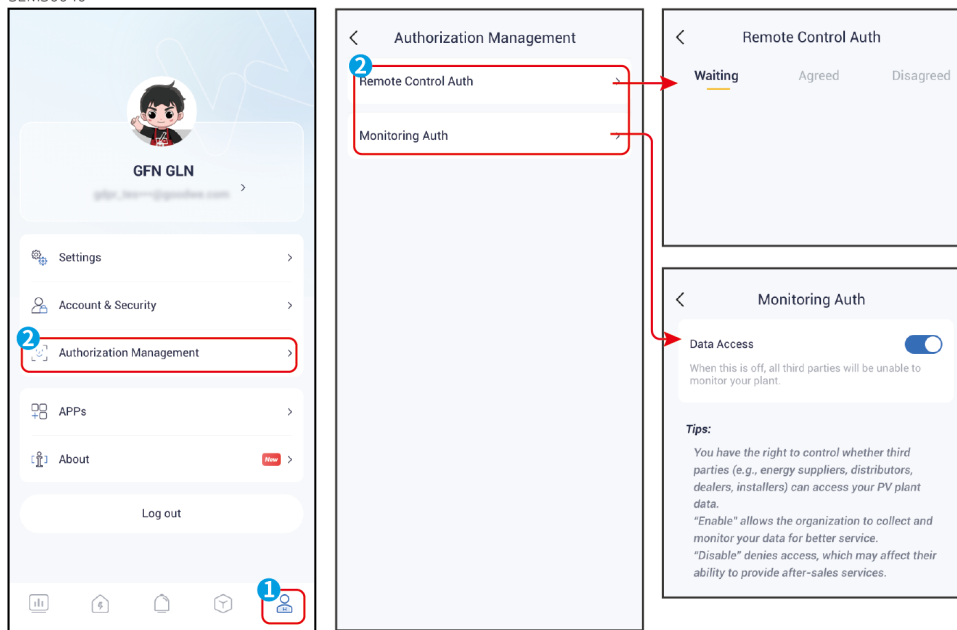
NOTICE

- Applicable only to servers: Americas, Australia, and Europe.
- If a third-party power grid company has remote control requirements, please contact GoodWe to add authorization.
- Monitoring authorization is only applicable to owner accounts. After enabling Monitoring Authorization, accounts other than the owner and authorized visitors cannot monitor the power station.

Step 1: On the "Me" interface, tap "Authorization Management".

Step 2: Set the working mode according to actual needs.

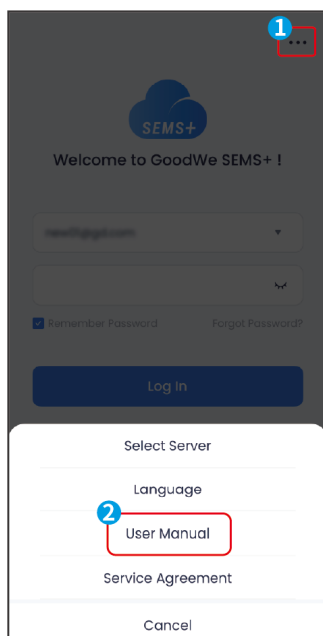
SEMS0040



6.10 How to Check the SEMS+ App User Manual

Step 1: Tap  > "User Manual" on the login interface.

SEMS0049



7 Troubleshooting

No.	Fault	Causes	Solutions
1	Unable to install SEMS+ App	1. The smart phone operating system version is too low. 2. The smart phone prevents installing the App.	1. Upgrade the phone operating system 2. Select Setting > Security > Install Apps from external sources on your smart phone.
2	The WiFi signal is not included in the App device list.	The app is not connected to the WiFi signal.	1. Make sure that the WiFi dongle works normally. 2. Refresh the device list. If the signal is still missing, restart the App.
3	Login failed	1. The phone is not connected to the Internet. 2. SEMS+ is in maintenance.	1. Check if mobile data of the cell phone is enabled and has access to the Internet. 2. SEMS+ is in maintenance. Try again later.
4	Unable to launch App	1. The smart phone operating system version is too low. 2. The SEMS+ App version is too low.	1. Upgrade the phone operating system 2. Check if the App version is the latest version.
5	Data acquisition failure during operation	Communication between the device and SEMS+ is interrupted.	1. Check whether the communication between the device and the router is normal. 2. Check if the communication between the router and the cloud is normal.

8 Contact Details

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