

SEMS+ WEB

User Manual

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NOTE

Due to product version upgrades or other reasons, the document content may be updated from time to time. Unless otherwise agreed, the document content does not supersede the safety precautions on the product label. All descriptions in this document are for guidance only.

Preface

Overview

This document mainly introduces SEMS+ WEBcommon operations.

Applicable Personnel

Applicable to professionals who are familiar with local regulations, standards, and electrical systems, have received professional training, and are knowledgeable about this product, or end users who have purchased GoodWe products.

Symbol Definitions

 DANGER
Indicates a high-level potential hazard that, if not avoided, will result in death or serious injury.
 WARNING
Indicates a moderate-level potential hazard that, if not avoided, could result in death or serious injury.
 CAUTION
Indicates a low-level potential hazard that, if not avoided, may result in moderate or minor injury.
NOTE
Emphasis and supplementary information about the content, may also provide tips or tricks for optimal product use that can help you solve a problem or save your time.

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1 Product Introduction

1.1 Compatible Products

Supports monitoring and management of related devices of the GoodWe brand, such as inverters, smart meters, data collectors, charging piles, etc.

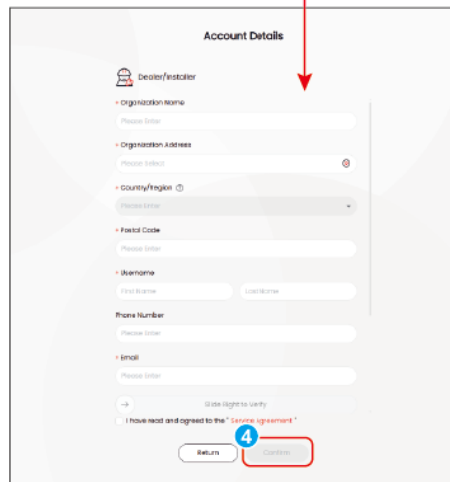
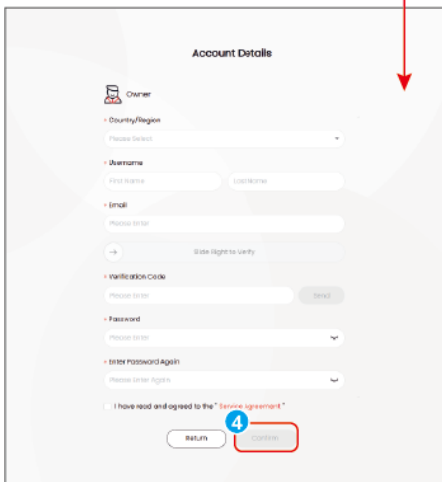
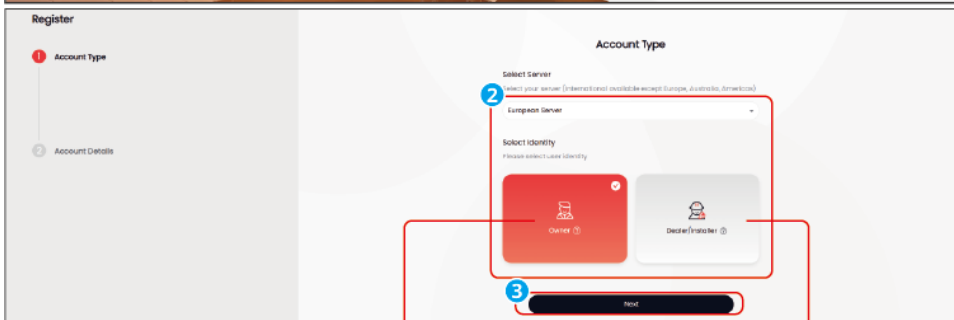
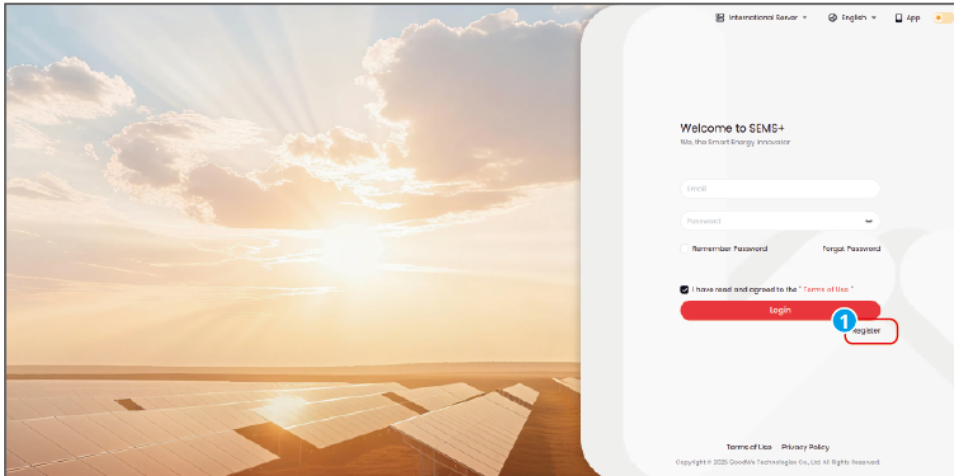
1.2 Register Account

NOTE

Distributor/Installer account registration is only supported for administrator accounts. To register technician or marketing personnel accounts, please have the administrator create them through the back-end organization management.

Operating steps:

1. In SEMS+ WEBOn the login page, click "Register".
2. Select the server type and registration account type.
3. Enter account details. Click "Confirm" to complete registration.



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1.3 Web Login

NOTE

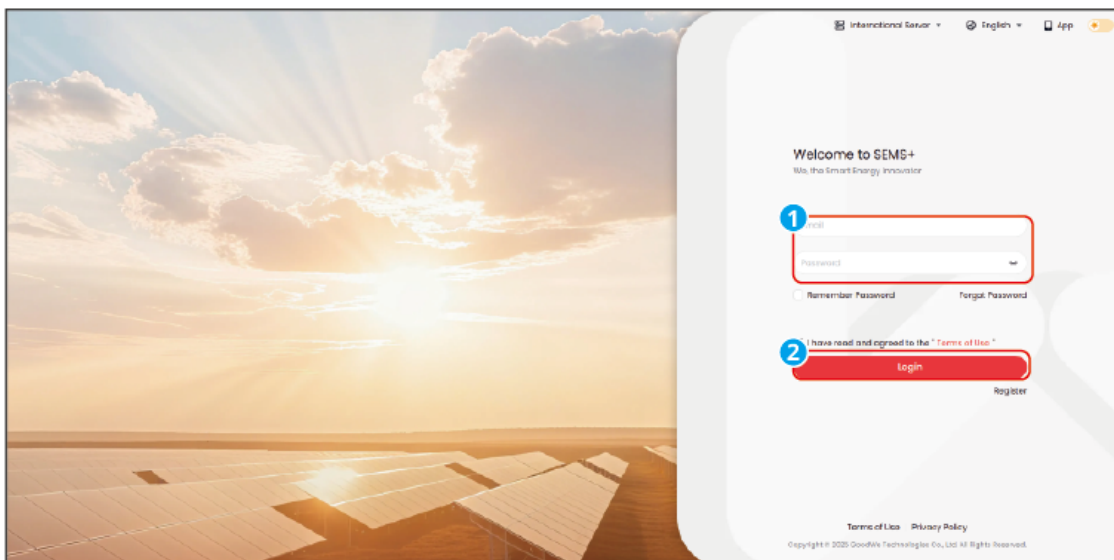
Users are advised to update their passwords periodically. After changing your password, remember it to ensure account security.

Prerequisites:

- Account credentials obtained
- Operating system: It is recommended to use Windows 7 and later versions of the operating system
- Browser: It is recommended to use Chrome 87 and later versions of the browser
- Resolution: It is recommended to use 1920*1080 pixels

Login steps:

1. Enter the following in the browser address bar: <https://semsplus.goodwe.com/#/login>, Press Enter, to enter the login page.
2. Enter your email address and password, then click "Login".
3. If the account is logging in for the first time, follow the on-screen prompts to change the login password, set personal preferences, create a plant, etc.

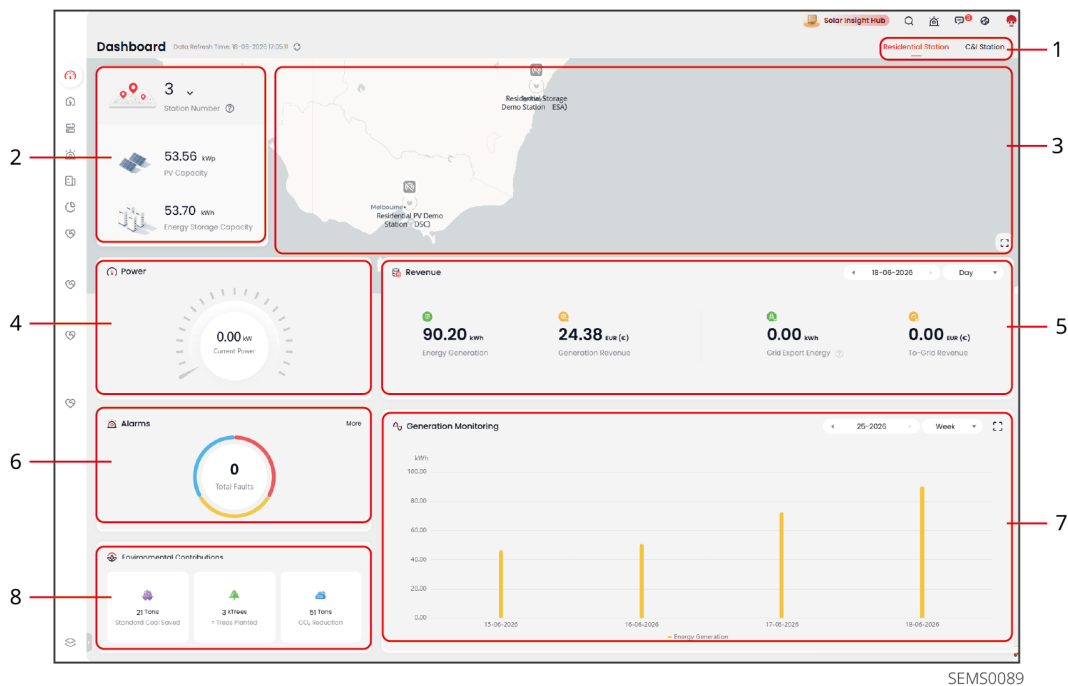


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2 Dashboard

NOTE

- The home page display interface may vary by power station type. Please refer to the actual display.
- When the number of power stations is 1, the dashboard interface is not displayed. After login, you will go directly to the power station details interface.
- When there is no power station, after login you will enter the power station list interface.



No.	Function Description
1	Power station type switch button. Click to select the power station type. The home page display information will vary by power station type. This button is not displayed when the account has only one power station type.

No.	Function Description
2	Displays parameters such as the number, operating status, and capacity of power stations of the current type. • Number of power stations: Displays the number of power stations under the current power station type, newly added power stations, and operating status. • PV capacity: Displays the PV capacity in the power station under the current power station type.PV Total installed capacity. • Battery capacity: Displays the battery capacity under the current power station type.
3	• Power station distribution map. Displays the distribution of all power stations and their operating statuses based on map latitude and longitude. • Click the power station name to enter the corresponding power station detail page.
4	Power. Displays the current active power.

No.	Function Description
5	Revenue. • Power Generation Revenue: Display the total power generation revenue under the current plant type. ◦ Generation revenue is calculated based on the plant-level Tariff. Generation revenue = Energy Generation * Export Tariff. ◦ When a power station uses planned Tariff, calculations are performed according to the organization-level fixed Tariff. When a power station uses fixed Tariff, calculations and statistics are performed according to the power station-level Tariff. • Energy Generation: Displays the total energy generation under the current power station type. • On-grid revenue: Displays the total on-grid revenue for the current power station type. ◦ Export revenue is calculated based on the plant-level Export Tariff. Export revenue = Exported energy. * Export Tariff. ◦ When some power stations are on planned Tariff, all calculations are performed according to the fixed Tariff policy and the fixed Export Tariff at the power station level. • Exported energy: Displays the total exported energy under the current power station type.
6	Alarms. Displays the proportion of each alarm level currently occurring on each device under the current power station type. Click "More" to enter the alarm list page to view detailed alarm information.
7	Energy Generation Monitoring. Displays the Energy Generation status of all power stations, supporting statistics of Energy Generation by day, month, year, and full lifecycle dimensions.
8	Environmental Contributions. Displays the environmental benefits generated by PV power generation, including: emission reductionCO2saving standard coal, equivalent tree planting, etc.

3 Power Station Monitoring

Supports viewing plant overview and detailed information, creating plants, sharing plants, favoriting plants, deleting plants, modifying basic plant information, viewing plant alarms, and managing plant equipment through the "Plant Monitoring" interface.

3.1 Create Power Station

Supports creating power stations based on actual needs.

Operating steps

1. Click "Plant Monitoring">and "Add Plant" to enter the plant creation interface.
2. Set the plant address and click "Next". You can enter it manually or click on the map on the right to pinpoint the location.
3. Set the basic plant information according to the actual situation and click "Next".
4. Set the owner's email information.
5. Click "Finish" to create the power station.

Dashboard

Station List

Device List

Alarm Center

Report Center

Analysis

Service Center

Station List

Filter

Station/Device, Email, SN

Station Address

Email

Q

C

All (7)

Monthly New (0)

Running (5)

Waiting (0)

Offline (2)

Fault (0)

Station Information	Station Status	Today's Generation (kwh)	PV Power (kw)	Safe Operation Days (Day)	Note	Operation
Residential Storage Demo Station... XV121CM Asustor, Bay of Plenty Regio... 23.90kw	Running	88.20	0.00	683	--	☆ ...
Residential Storage Demo Station... 27 Southon Ave, C0208 P81 NW 254, A... 10.00kw	Running	66.30	0.13	683	--	☆ ...
C&I Demo Station (417)						

New Station

Station List

Device List

Alarm Center

Report Center

Analysis

Service Center

1

2

3

4

5

6

7

8

3

Station Address

Please Enter

Longitude 103.818836

Latitude 1.352083

Please search and fill in the accurate station address. An incorrect address may affect energy scheduling, statistics, and revenue calculations.

Detailed Address

Please Enter

Country/Region

SG

Time Zone

Asia/Singapore (UTC+08:00)

☒
 Authorize the use of third-party services to update time zone information

Next

Station List

Device List

Alarm Center

Report Center

Analysis

Service Center

1

2

3

4

5

6

7

8

5

Station Type

☐ Residential PV Station
 ☐ Residential Storage Station
 ☐ C&I PV Station
 ☐ C&I Storage Station

Station Name

Please Enter

Rated Power

Please Enter

Auto Get

☐

kW

PV Capacity

Please Enter

kWp

PV Installation Angle

Please Enter

°

Commercial Operation Date

Please Select

Note

Please Enter

Station Image

Manually upload or drag the station picture into the selection box

Support jpg, jpeg or png format images
 Image size not exceeding 8MB
 Recommended Size (px): 460 * 330

Previous

Next

Dashboard

Station List

Device List

Alarm Center

Report Center

Analysis

Service Center

1

2

3

4

5

6

7

8

7

Organization Code

610162674

Owner's Email

Please Enter

Visitor Information

+ User

+ Organization

Previous

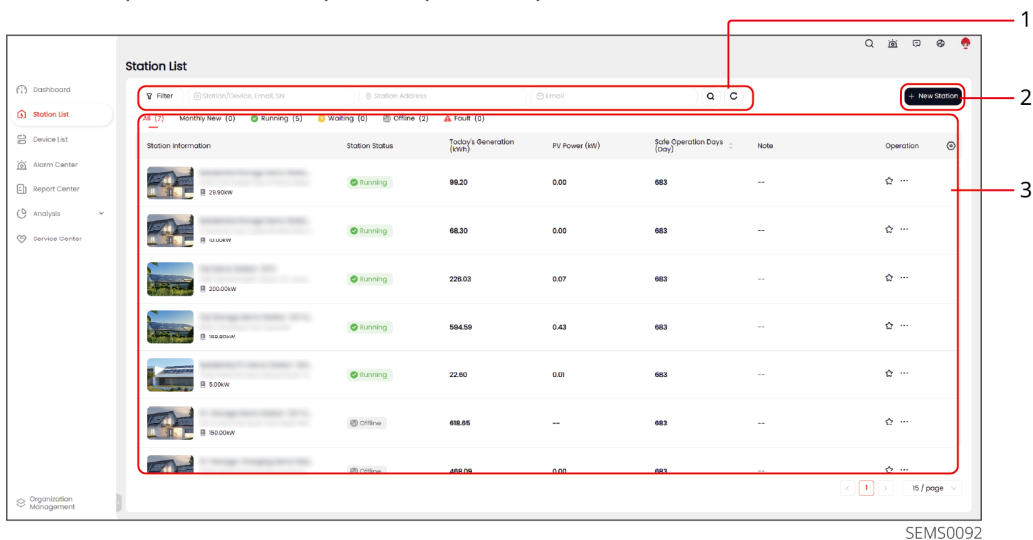
Complete

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Parameters	Function Description
Power Station Type	Set according to the actual power station type. Supported: Residential PV Station, Residential Storage Station, Commercial & Industrial Storage Station, Commercial & Industrial PV Station.
Power Station Name	Set the power station name according to actual needs.
Rated Power	Set the total installed power of the power station.
PV capacity	Set in the power stationPV Total installed capacity.
Battery capacity	Set the total battery capacity in the power station.
PV Installation Angle	SetPVPanel Installation Angle.
Commercial Operation Date	Set the grid connection date of the power station.

3.2 Power Station List Overview

In the main menu bar, select "Power Station Monitoring" to enter the power station list interface, where you can view overview information for all power stations in the account, and favorite, share, delete, etc.



SEMS0092

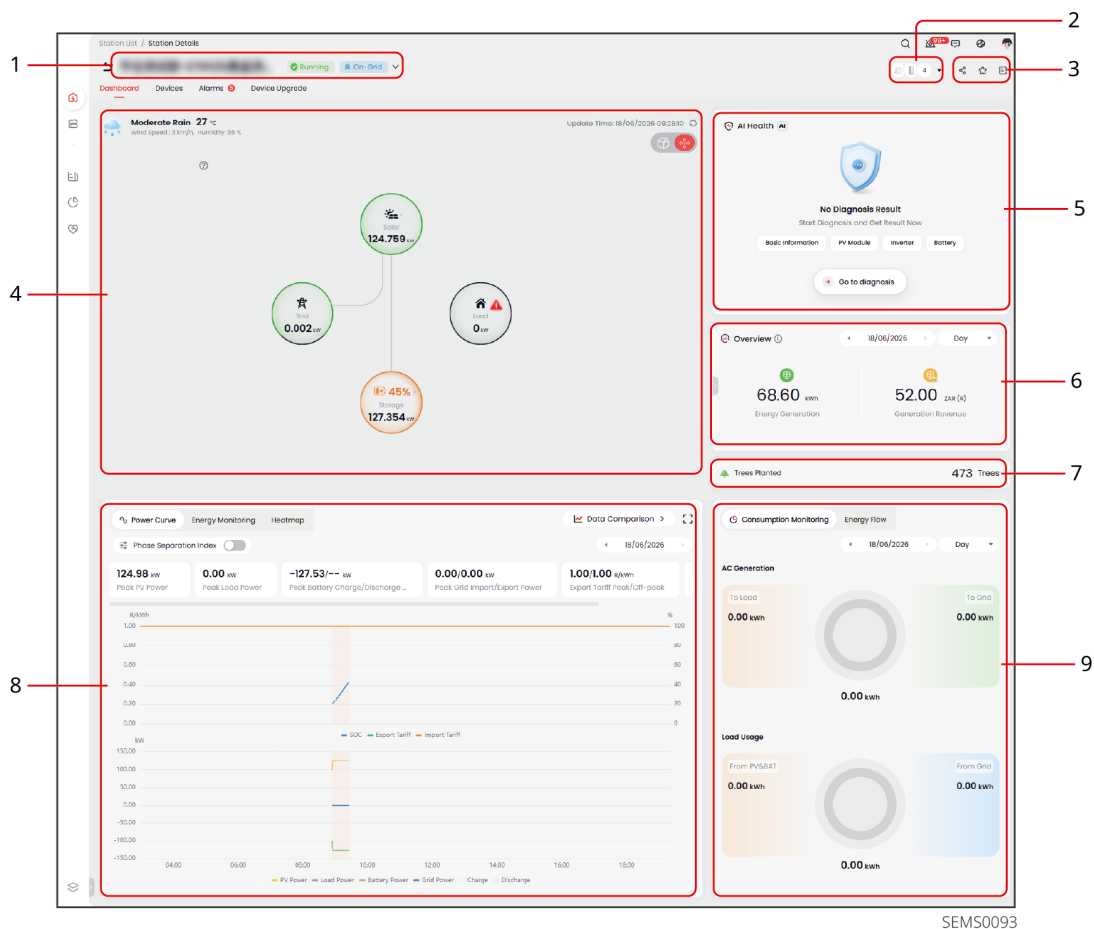
No.	Function Description
1	Quickly locate the power station you need to view by filtering or entering power station information.
2	Click to create a new plant.

No.	Function Description
3	Display overview information of all power stations under the account. • Power station operating status, Energy Generation, power, and other information. The displayed information can be  adjusted via configuration. • Click , Share the power station with other organizations or individual users, and set sharing permissions and time limits. If you need to share the power station with unregistered users, please fill in the email and other information as prompted on the interface, and an account will be automatically registered. • Click , Favorite the power station. Click , Unfavorite. • Click ... > , Delete the power station.

3.3 Power Station Details

In the power station list on the "Power Station Monitoring" page, click any power station name to enter the Power Station Details page. On the Power Station Details page, you can view basic information, Energy Generation, revenue, energy flow diagram, Environmental Contributions, and other information.

3.3.1 Power Station Dashboard



SEMS0093

No.	Function Description
1	- Display the current power station name, operating status, and On/Off-grid status. - Click▼Can quickly switch power stations.
2	- Total number and types of equipment in the current power station. - Click▼Displays the respective quantities and operating statuses of different types of equipment.

No.	Function Description
3	Operate the power station. - Click , Share the power station with other organizations or individual users, and set sharing permissions and time limits. - Click , Favorite the power station. Click , Unfavorite. - Click  View or modify basic power station information and Tariff information.
4	- The energy flow diagram displays the current energy flow of the power station. - Displays the weather conditions at the power station location. - Supports switching between 2D/3D energy flow diagrams. After viewing the 2D/3D energy flow diagram of any power station, all power stations of the same type in the account switch simultaneously.
5	- AIHealth. Based on AI algorithm and big data analytics capabilities, perform multi-dimensional health status diagnosis on power stations. - AI Health Diagnosis is only applicable to commercial and industrial scenarios. - Click "Go to Diagnosis" to enter the diagnosis details page and view the specific diagnosis report. For detailed operations, please refer to 3.3.9. Diagnose Plant Health (Page 30).

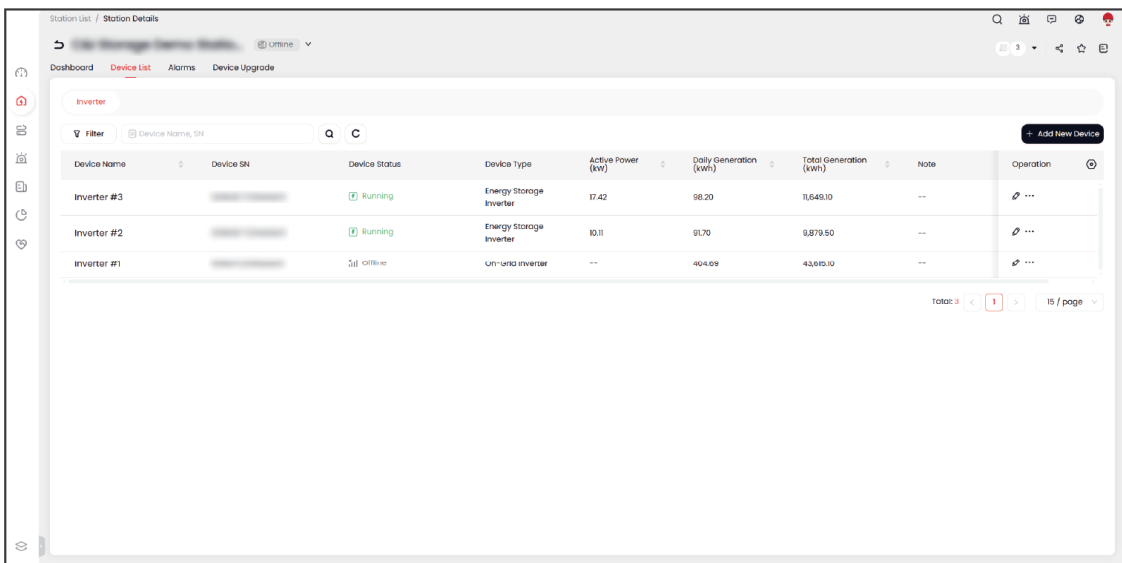
No.	Function Description
6	Revenue. Revenue statistics require configuring the Tariff when creating a new power station; otherwise, the system cannot calculate revenue data. • Power Generation Revenue: Display the total power generation revenue under the current plant type. ◦ Generation revenue is calculated based on the plant-level Tariff. Generation revenue = Energy Generation * Export Tariff. ◦ When a power station uses planned Tariff, calculations are performed according to the organization-level fixed Tariff. When a power station uses fixed Tariff, calculations and statistics are performed according to the power station-level Tariff. • Energy Generation: Displays the total energy generation under the current power station type. • On-grid revenue: Displays the total on-grid revenue for the current power station type. ◦ Export revenue is calculated based on the plant-level Export Tariff. Export revenue = Exported energy. * Export Tariff. ◦ When some power stations are on planned Tariff, all calculations are performed according to the fixed Tariff policy and the fixed Export Tariff at the power station level. • Exported energy: Displays the total exported energy under the current power station type.
7	Environmental Contributions. Displays the environmental benefits generated by PV power generation, including: emission reductionCO₂saving standard coal, equivalent tree planting, etc.
8	• Power Curve/Energy Monitoring/Heat Map.Through visual charts, display the power station's operation status and energy dynamics. • Supports viewing year-over-year comparison charts of data. • If the inverters in the power station support the split-phase function, you can enable the "Split-Phase Indicator" to start split-phase power monitoring. After this function is enabled in any power station, all split-phase-capable power stations in the account will automatically start split-phase monitoring.

No.	Function Description
9	Energy Monitoring/Energy Flow. Displays the electricity flow among PV, grid, and load.

3.3.2 Plant Equipment

On the Power Station Details page, click "Device List" to view information about all devices in the station, including device name, serial number, type, model, status, etc.

- Click the device name to enter the Device Details page. Device settings are supported. If you need to configure, please refer to [4.3.Set Device Parameters\(Page 41\)](#)Section.
- Click "Add Device" to enter the Add Device page. For specific addition methods, please refer to [3.3.3.Add Plant Devices\(Page 20\)](#)Section.
- Click  You can then adjust the information displayed on the list interface.
- Click  You can then edit the device name or add remarks.
- Click ... >  You can then delete the device.



Device Name	Device SN	Device Status	Device Type	Active Power (kW)	Daily Generation (kWh)	Total Generation (kWh)	Note	Operation
Inverter #3		Running	Energy Storage Inverter	17.42	98.20	11,649.19	--	 
Inverter #2		Running	Energy Storage Inverter	10.11	91.70	9,879.50	--	 
Inverter #1		Offline	Off-grid inverter	--	404.09	43,615.10	--	 

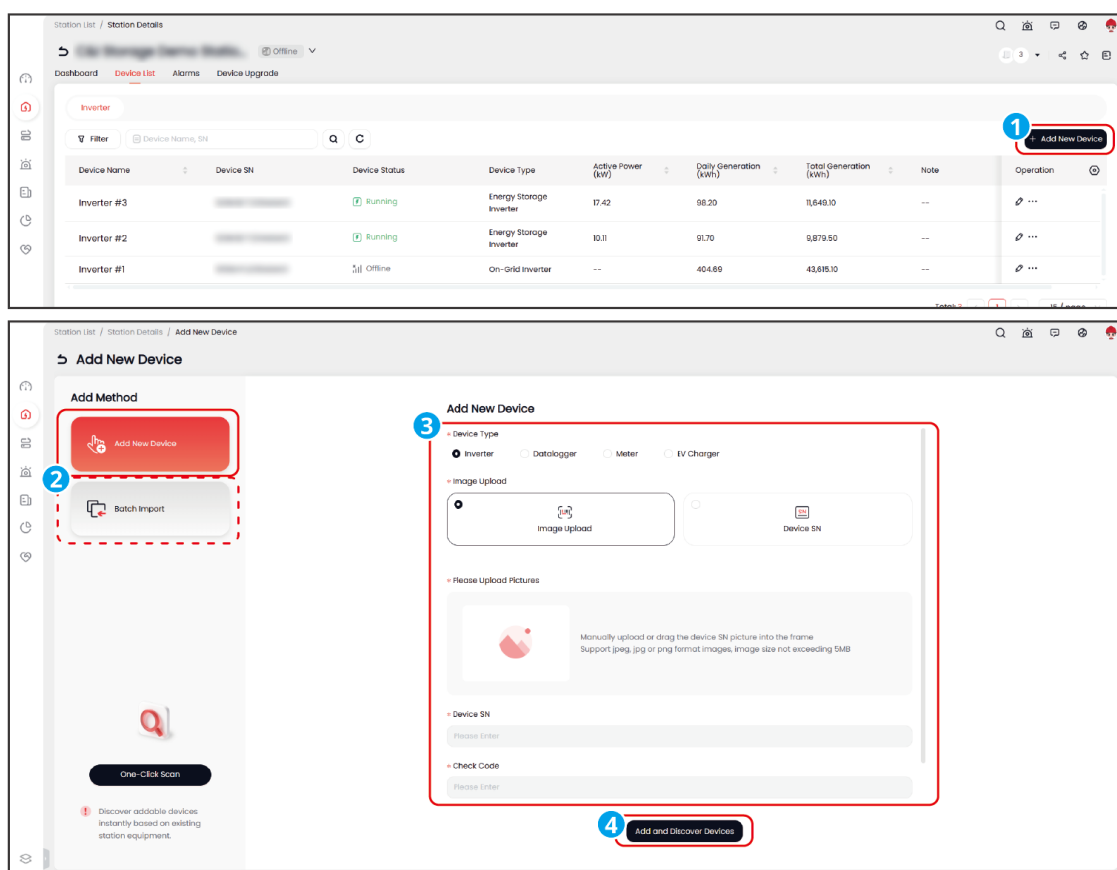
SEMS0094

3.3.3 Add Plant Devices

If you need to add devices to an existing power station, you can add them by using the Add Device function.

Operating steps:

1. On the Power Station Details page, click "Device List">"Add Device".
2. Add devices as needed. To add automatically, click "One-Key Scan" to find devices that can be added in the station. To add manually, select "Add Device" or "Batch Import" and complete the device search as prompted on the interface.
 - Add Device: Select the device type and upload the deviceSN or manually enter the deviceSN, Click "Add and Discover Device".
 - Batch Import: Click "Download Template", fill it out, and upload it to the "Upload File" field.
3. After the device search is completed, confirm the device information found. Click "Add" once confirmed. After the device is added, the system will automatically scan for and prompt you about any new devices.



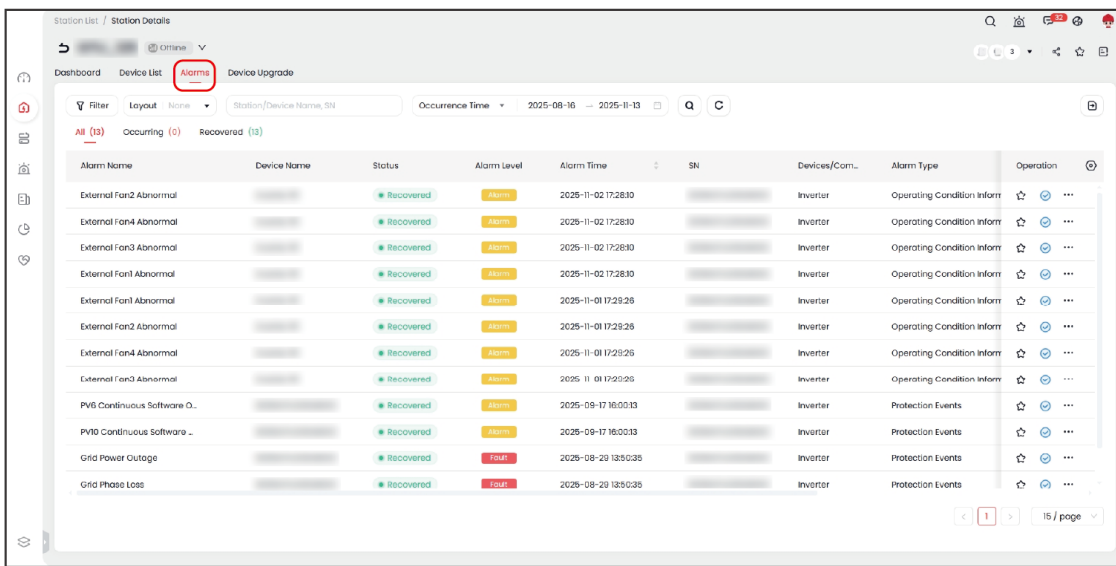
SEMS0095

3.3.4 Plant Alarms

Operating steps:

1. On the Power Station Details page, click "Alarms" to view all alarm information of the current station.

- Supports filtering by alarm type, alarm station, alarm device, alarm occurrence time, alarm Recovery Time, etc. according to actual needs.
- Supports setting the interface view, i.e., selecting the information to be displayed on the interface, and saving the display configuration.
- Click  You can then adjust the information displayed on the alarm interface.
- Click  Export alarm information.



Alarm Name	Device Name	Status	Alarm Level	Alarm Time	SN	Devices/Com.	Alarm Type	Operation
External Fan2 Abnormal		Recovered	Alarm	2025-11-02 17:28:30		Inverter	Operating Condition Inform	☆ ↺ ⋮
External Fan4 Abnormal		Recovered	Alarm	2025-11-02 17:28:30		Inverter	Operating Condition Inform	☆ ↺ ⋮
External Fan3 Abnormal		Recovered	Alarm	2025-11-02 17:28:30		Inverter	Operating Condition Inform	☆ ↺ ⋮
External Fan1 Abnormal		Recovered	Alarm	2025-11-02 17:28:30		Inverter	Operating Condition Inform	☆ ↺ ⋮
External Fan1 Abnormal		Recovered	Alarm	2025-11-01 17:29:26		Inverter	Operating Condition Inform	☆ ↺ ⋮
External Fan2 Abnormal		Recovered	Alarm	2025-11-01 17:29:26		Inverter	Operating Condition Inform	☆ ↺ ⋮
External Fan4 Abnormal		Recovered	Alarm	2025-11-01 17:29:26		Inverter	Operating Condition Inform	☆ ↺ ⋮
External Fan3 Abnormal		Recovered	Alarm	2025-11-01 17:29:26		Inverter	Operating Condition Inform	☆ ↺ ⋮
PV6 Continuous Software O...		Recovered	Alarm	2025-09-17 16:00:33		Inverter	Protection Events	☆ ↺ ⋮
PV10 Continuous Software ...		Recovered	Alarm	2025-09-17 16:00:33		Inverter	Protection Events	☆ ↺ ⋮
Grid Power Outage		Recovered	Fault	2025-08-29 13:50:35		Inverter	Protection Events	☆ ↺ ⋮
Grid Phase Loss		Recovered	Fault	2025-08-29 13:50:35		Inverter	Protection Events	☆ ↺ ⋮

SEMS0096

3.3.5 Intelligent Management

3.3.5.1 Smart Workshop

Through the Smart Workshop, users can quickly create automated workflows according to actual needs, that is, preset scenario trigger conditions, trigger time periods, and other commands, and execute corresponding operations within the specified conditions and time periods.

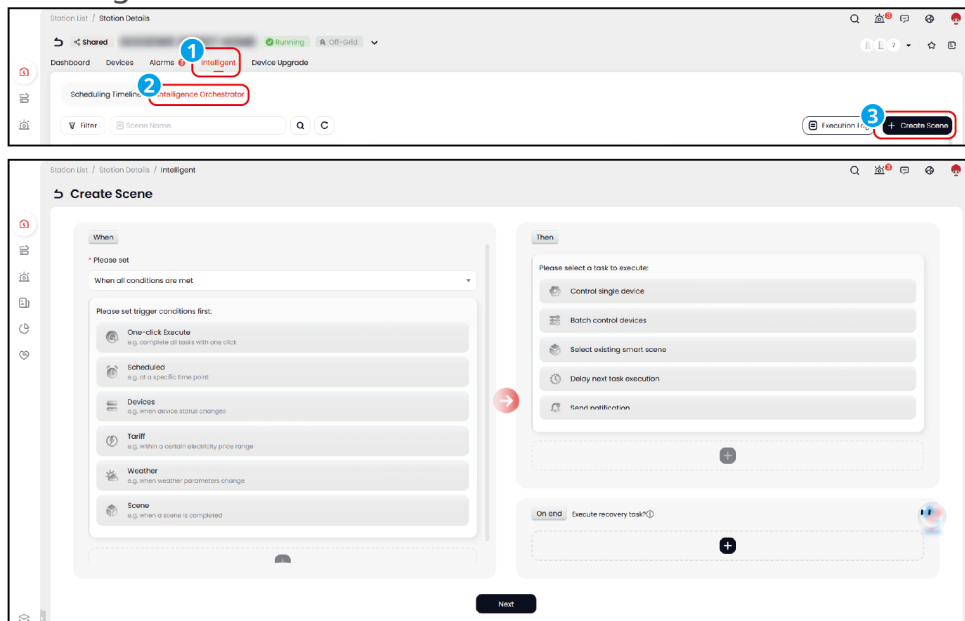
For example: set the trigger condition to ambient temperature below 0°C, the effective time period to be from 7:00 PM to 12:00 AM every night, and when both conditions are met, turn on the heat pump.

NOTE

Workflows created through the Smart Workshop have higher priority than operating modes set through devices or the power station.

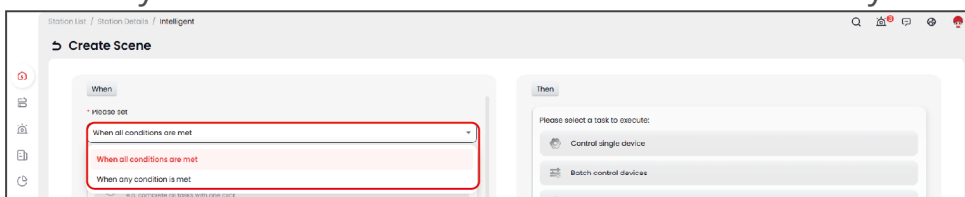
Operating steps:

1. Enter the power station details page, click "Smart" > "Smart Workshop" > **+**, Start creating a new scene.



SEMS0209

2. If there are multiple trigger conditions, please select one first:
 - When all conditions are met: execute the task only when all conditions are true.
 - When any condition is met: the task can be executed if any one condition is true.

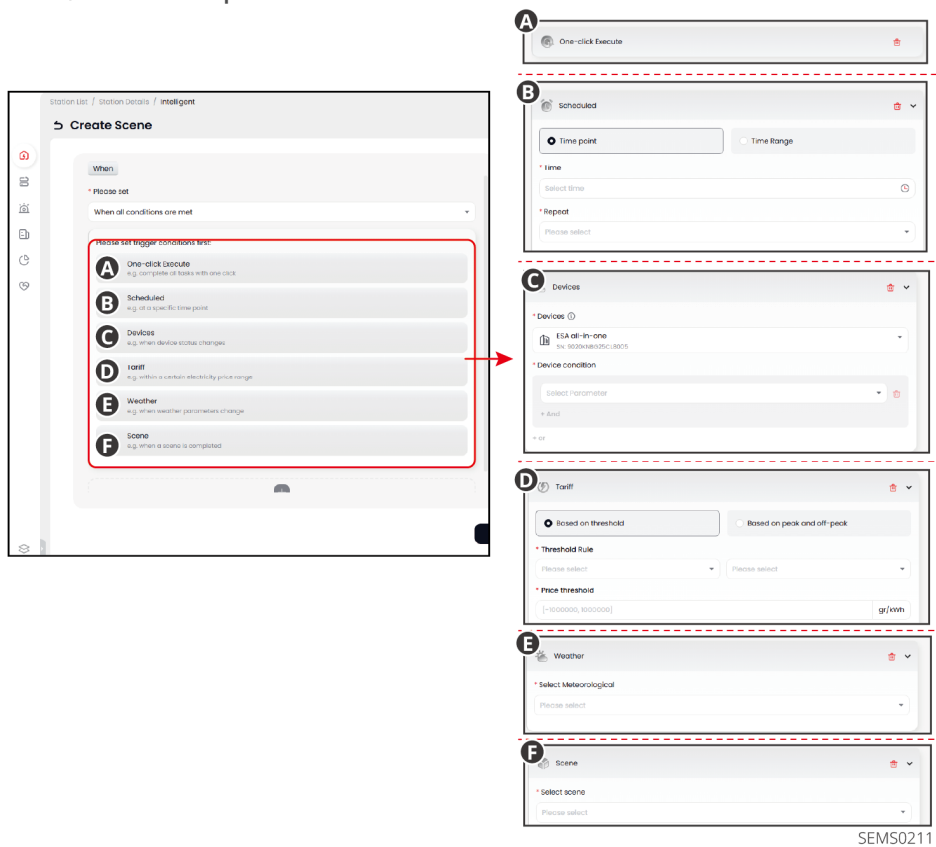


SEMS0210

3. Set the scenario conditions according to the interface prompts. Except for "One-click Execution", other conditions support combined settings:
 - One-touch execution: manually execute the task without additional trigger conditions.
 - Scheduled: Set the time point or time period for triggering the task, as well as the repeat cycle. If a time point is selected, the current task will continue to be executed by default after the time passes; if a time period is selected, you can

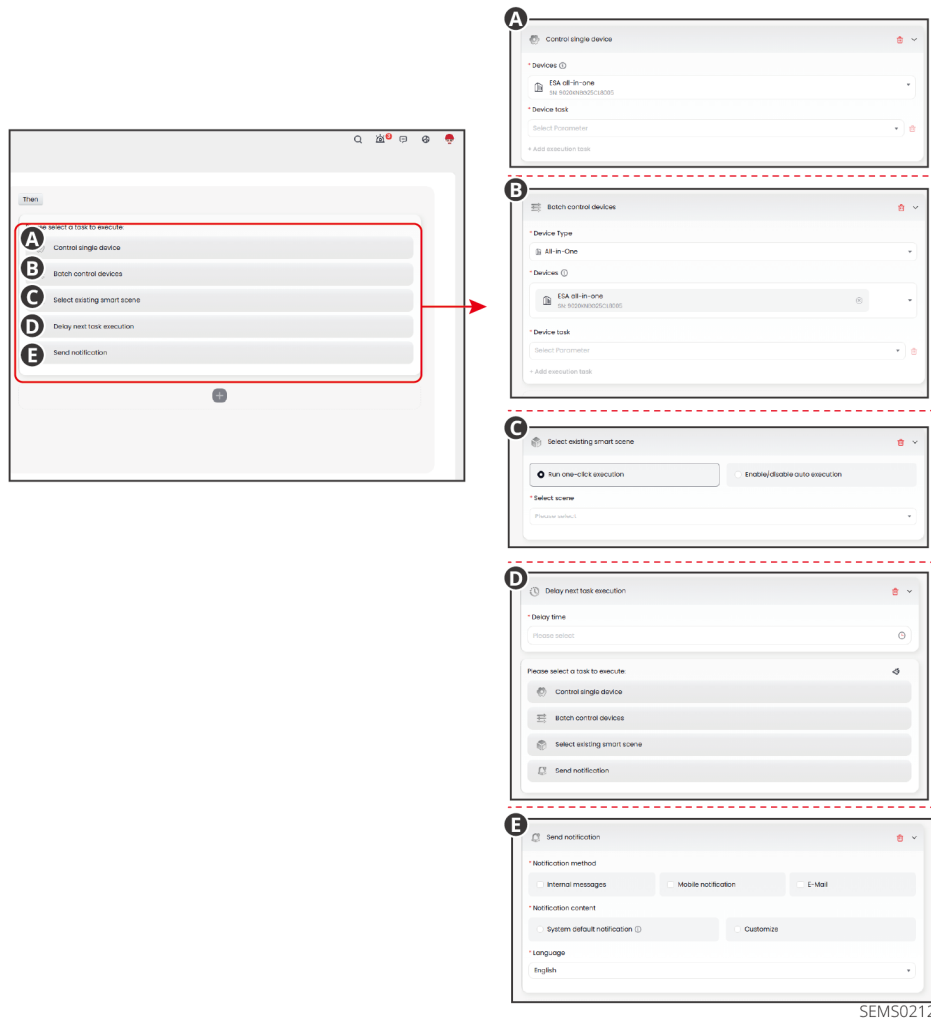
choose to continue executing the current task after expiration or switch to a new task.

- Device: Select a device and set conditions. The task is triggered when the selected device satisfies the conditions.
- Tariff: Triggers tasks based on tariff changes. Not applicable to fixed tariffs.
 - Based on threshold: Trigger the task when the Export Energy Tariff or Import Energy Tariff is higher/lower than the set tariff threshold.
 - Based on peak-valley: Within a specified time period, select time periods when the Export Energy Tariff is relatively high or the Import Energy Tariff is relatively low. The selected time periods can be discontinuous. For example: the time period is 8:00 AM to 2:00 PM, and within this period, you need to select 2 hours when the Export Energy Tariff is relatively high. According to tariff fluctuations, the time periods with relatively high Export Energy Tariff are 11:00 AM to 12:00 PM and 1:00 PM to 2:00 PM.
- Weather: Trigger the task when meteorological conditions such as weather, temperature, humidity, and wind speed satisfy the conditions.
- Scene: Set up subsequent tasks after an existing scene executes successfully, fails, or is completed.

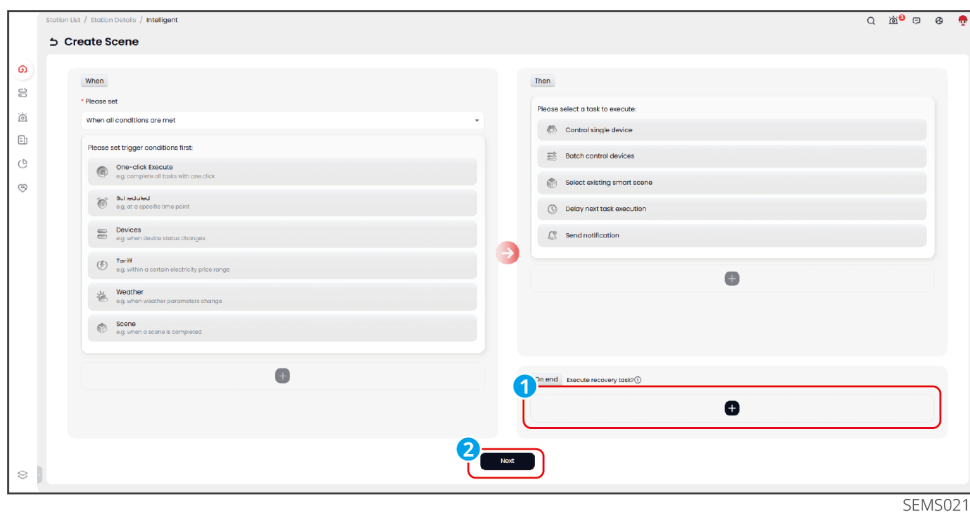


4. Preset the tasks to be executed according to the interface prompts:

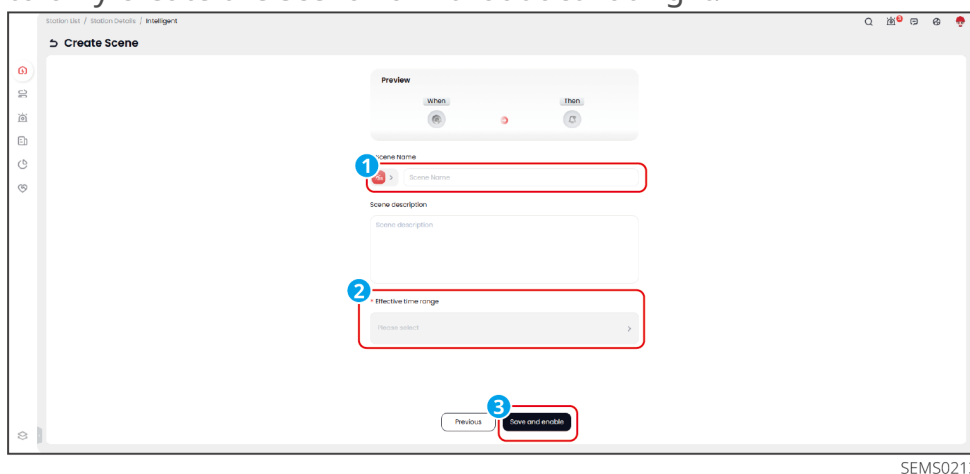
- Control a single device: Specify one device and its task.
- Batch control devices: Control multiple devices and their tasks simultaneously.
- Select an existing smart scene: Invoke a scene that already exists.
- Delay execution of the next task: Set a delay time, and execute the subsequent task after the delay time elapses.
- Send notification reminders: Send notifications via in-site messages, message notifications, emails, etc.



- When the set condition is a scheduled time period or Tariff, you can set the next task after the current task according to actual needs. The supported task types are the same as in Step 4.



6. Set the scenario name, describe the current scenario, and select the effective time period. Click "Save and Enable" to create and activate the scenario, or click "Save" to only create the scenario without activating it.



3.3.5.2 Dispatch Calendar

Through the Dispatch Calendar, view the historical dispatch information and the day's dispatch plan of the power station, such as who initiated the dispatch command, when the dispatch occurred, and which actions were executed.

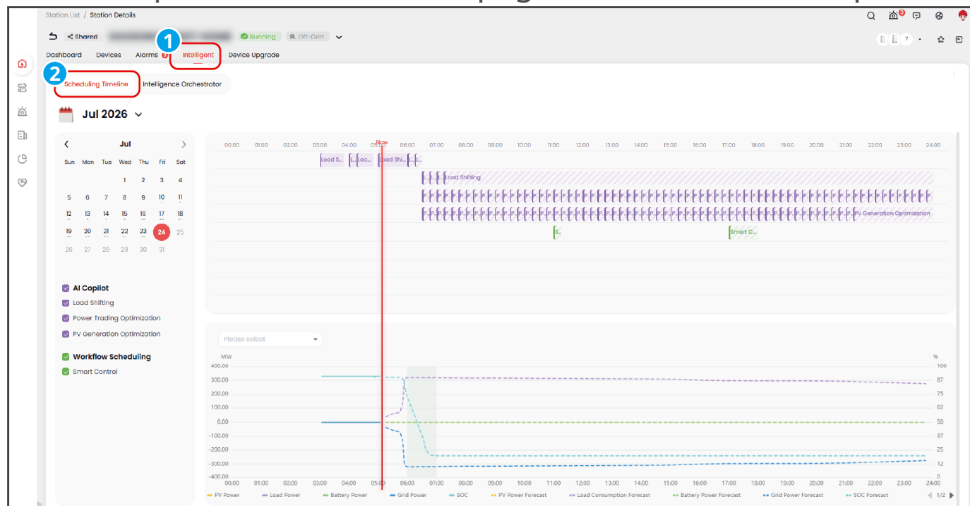
Currently supported dispatch modes:

- Grid dispatch: The power station responds to grid commands and accepts grid dispatch, such as DNSP in Australia.
- VPP dispatch: The power station accepts dispatch from the virtual power plant. Only applicable in Europe and Australia.

- AI Copilot: The power station operates according to strategies generated by AI intelligent algorithms.
- Workflow dispatch: The power station operates based on conditions and trigger methods preset by the user in the Smart Workshop.

Operating steps:

1. Enter the power station details page, click "Smart" > "Dispatch Calendar".



SEMS0214

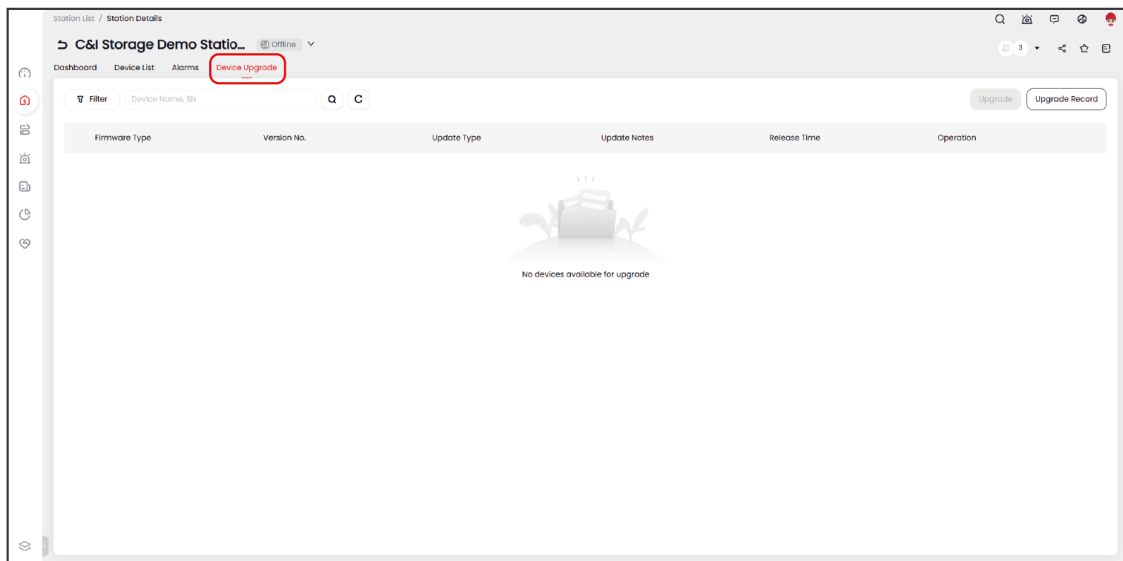
3.3.6 Device Upgrade

Supports upgrading a single device in the current power station or batch upgrading multiple devices in the power station.

If the upgrade is interrupted or a device goes offline during the upgrade, the system will continue the upgrade after detecting that it has returned to normal.

Operating steps:

1. On the power station details interface, click "Device Upgrade".
2. (Optional) Filter device type or search for devices.
3. Click , You can then upgrade the firmware of a single device. For batch upgrade, click "Upgrade", select multiple devices, and click "Batch Upgrade".



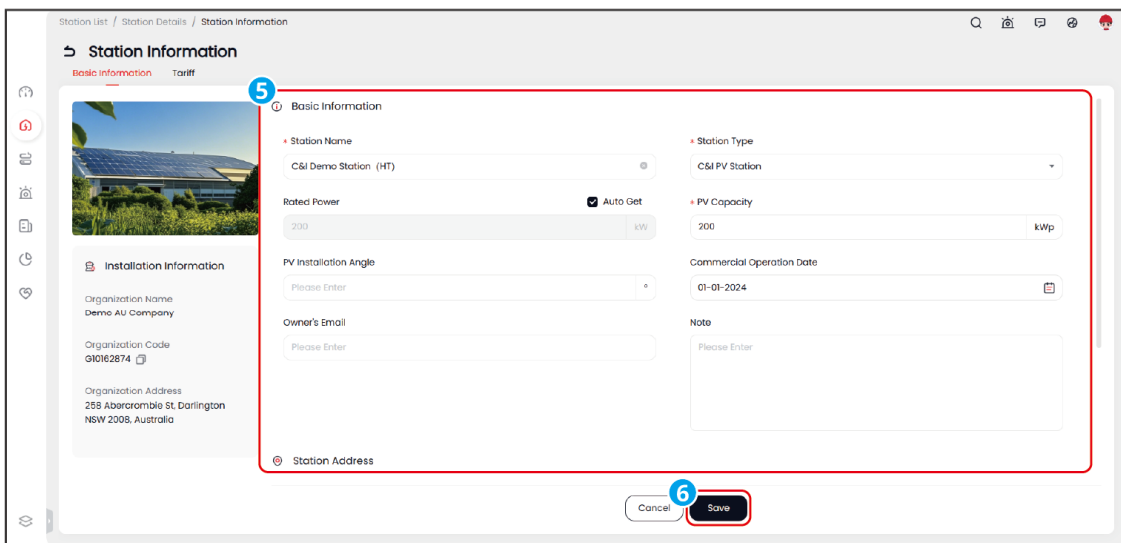
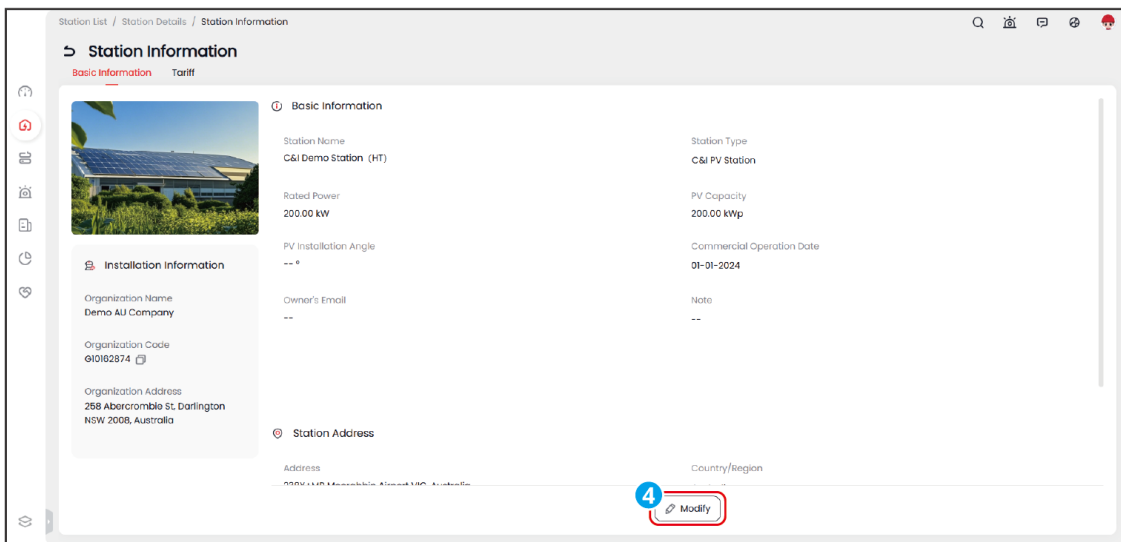
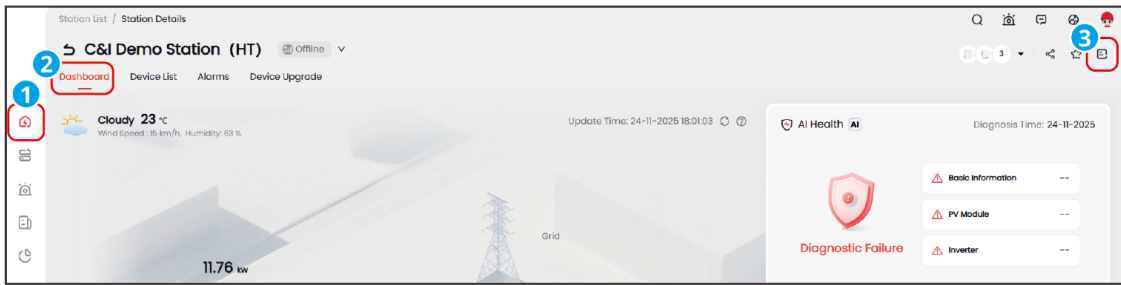
SEMS0097

3.3.7 Modify Basic Power Station Information

The basic information set when creating the power station can be modified, including the power station name, power station type, Rated Power, PV capacity, etc.

Operating steps:

1. On the power station details page, click , to enter the "Basic Information" page.
2. Click "Modify" and fill in the information as needed.
3. Click "Save" to complete the modification.



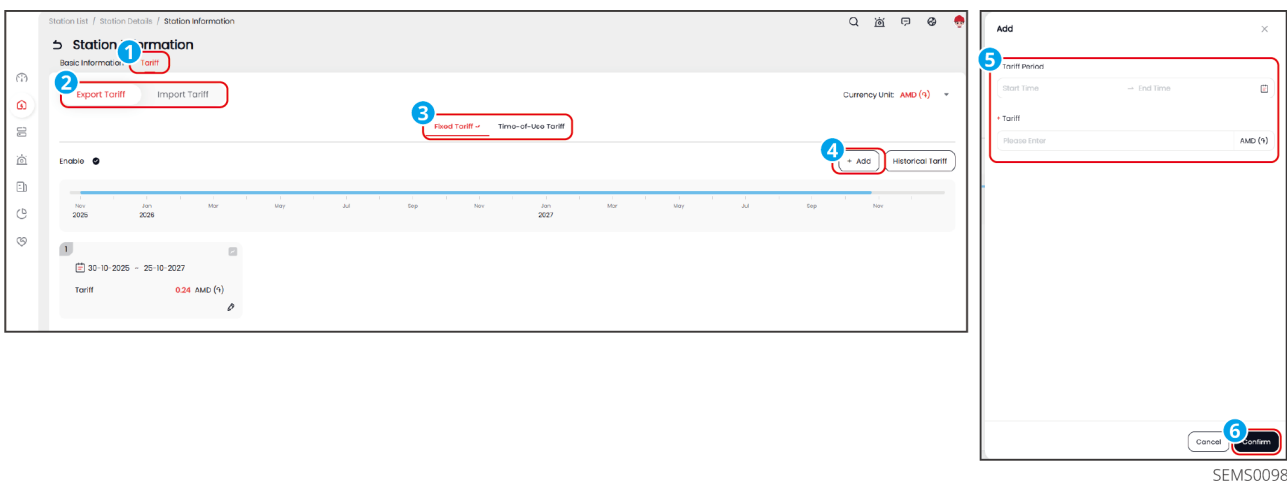
SEMS0128

3.3.8 Configure Tariff Information

Supports viewing or setting the power station tariff information based on actual conditions.

Operating steps:

1. On the power station details page, click  > "Tariff".
2. Select "Export Tariff" or "Purchase Tariff". Then set the tariff type, supporting "Fixed Tariff", "Time-of-Use Tariff", and "Dynamic Pricing".
 - Fixed Tariff: Users set according to the actual Tariff.
 - Time-of-Use Tariff: Users set Tariff information for different time periods based on the actual Tariff. Multiple Tariffs can be set.
 - Dynamic Pricing: Obtain Dynamic Pricing from the power company, and combined with the user-defined Tariff surcharge, dynamically adjust the actual Tariff for electricity purchase and Export Energy. Only applicable to certain regions and certain devices.
3. Fill in the Tariff information as required.
4. After filling in the Tariff information, click "Confirm" to complete the setup.



SEMS0098

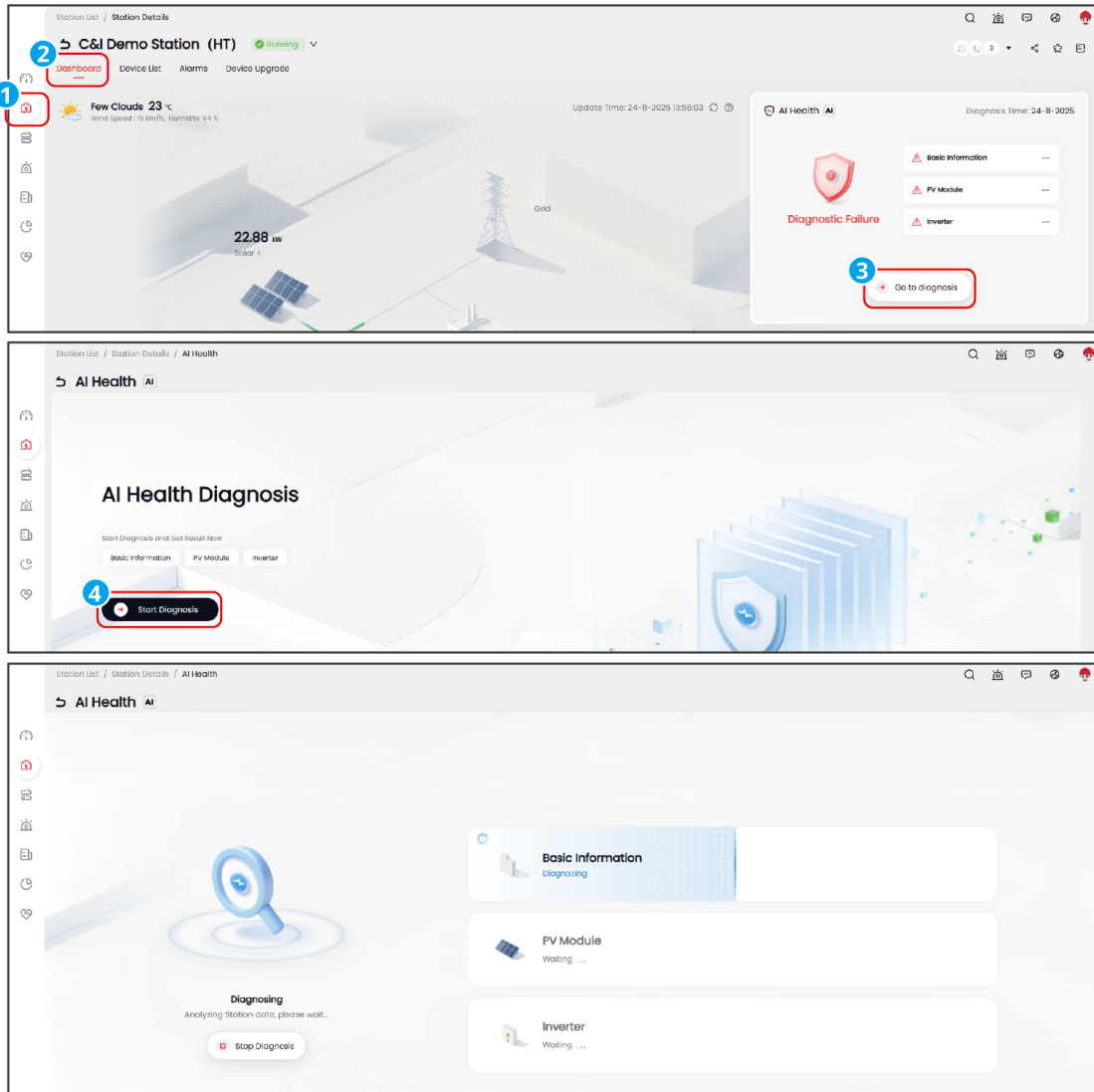
3.3.9 Diagnose Plant Health

AIHealth Diagnosis is only applicable to commercial and industrial scenarios. Based on AI algorithm and big data analytics capabilities, perform multi-dimensional health status diagnosis on power stations, including but not limited to:

- Basic Information: Basic information of the power station.
- PV Modules: Analyze module power generation Efficiency and shading conditions.
- Inverter: Detect the deviation of the inverter current dispersion rate.
- Energy Storage Consistency: Evaluate the Battery Consistency of storage batteries.

Operating steps:

1. On the power station dashboard, view "AIHealth."
2. Click "Go to Diagnosis".>"Start Diagnosis".
3. After the diagnosis is completed, click each module to view the specific diagnosis results and suggestions.



SEMS0099

3.3.10 Set System Operating Mode

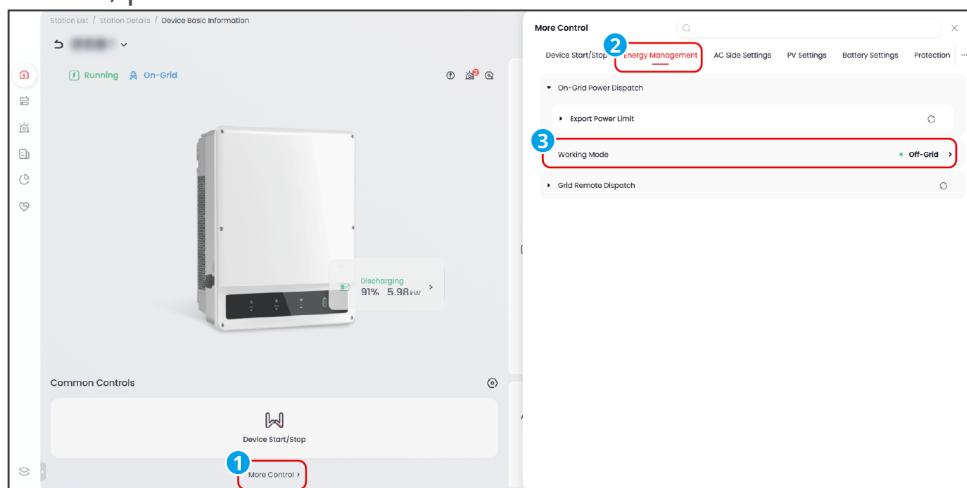
Supports selecting the system operating mode based on Tariff, electricity demand, or power supply environment. After the settings are completed, the system automatically coordinates PV, battery, and grid to dispatch electricity according to actual needs.

NOTE

- The default working mode is Self-consumption Mode.
- Different systems support different working modes; please refer to the interface.
- When setting the working mode via the inverter, the working mode priority is: Off-grid Mode > Demand Management > Smart Charging > TOU > Backup Mode > Self-consumption.
- When setting the working mode via the Home Energy Management System, the working mode priority is: Backup Mode > AI Mode > Demand Management > TOU Mode > Self-consumption.
- When the power station supports the cloud EMS function, plant-level working mode can be set; otherwise, only device-level working mode settings are supported.
- The cloud EMS function is currently only applicable to some power stations equipped with a single energy storage unit.

Device-level working mode operation steps

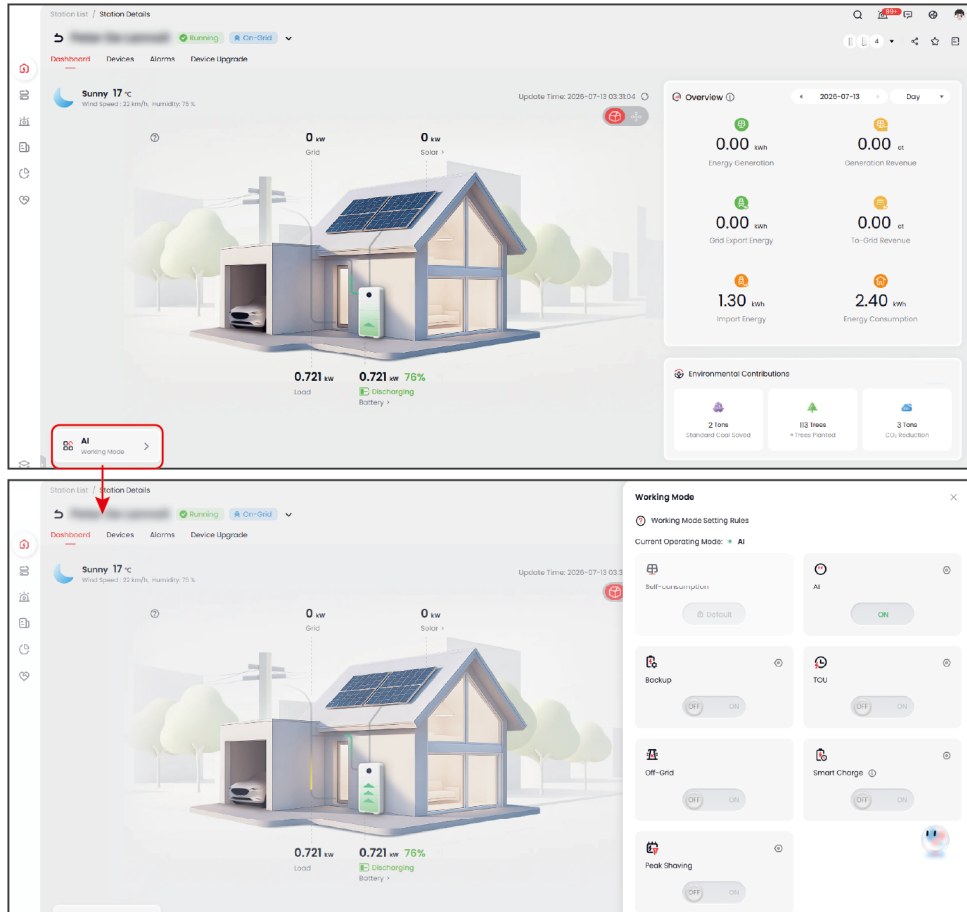
1. On the device details page, enter the Working Mode Settings interface via "Common Controls" > "Energy Management" > "Working Mode", or search for "Working Mode".
2. Please set the working mode according to actual needs. For details about working modes, please click[?].



SEMS0222

Plant-level Working Mode Settings steps

1. On the power station dashboard, click "Working Mode".
2. Please set the working mode according to actual needs. For details about working modes, please click?



SEMS0201

Self-consumption

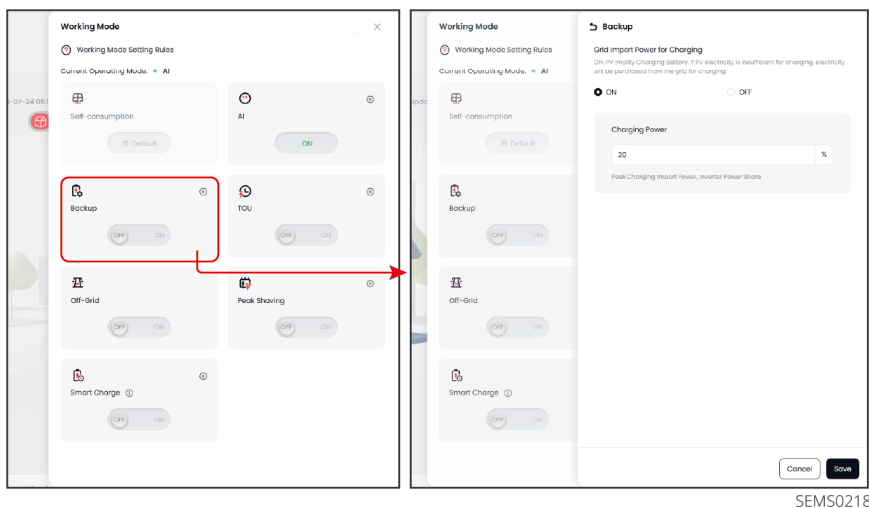
The basic working mode for system operation.

PV power generation is prioritized to supply the load; surplus energy charges the battery; and any remaining energy is sold to the grid. When PV generation is insufficient, the battery supplies the load; if the battery is also insufficient to meet the load demand, the grid supplies the load.

Backup Mode

Recommended for areas with an unstable grid.

When a Grid Power Outage occurs, the inverter switches to off-grid working mode, and the battery discharges to supply the load, ensuring that the BACKUP load remains powered. When the grid is restored, the inverter switches to grid-connected operation.



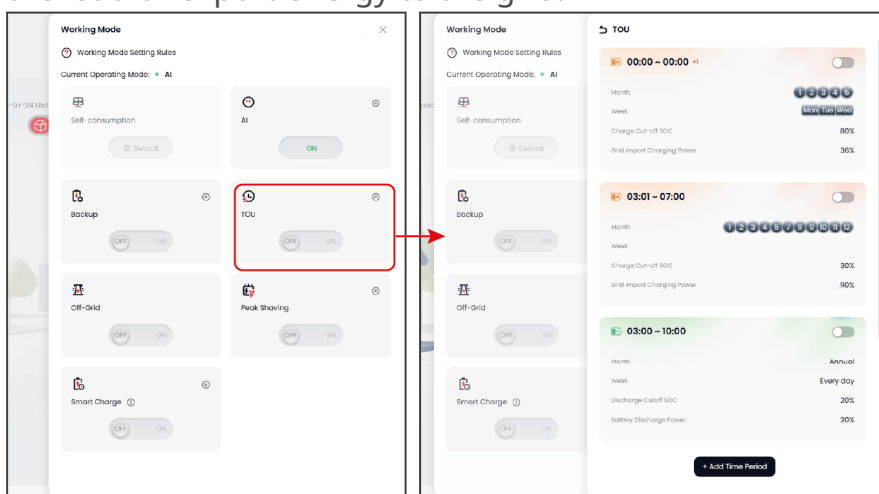
SEMS0218

Parameter name.	Description
Grid Purchase Charging	Enabling this function allows the system to purchase electricity from the grid.
Charging Power	The peak power when purchasing electricity, as a percentage of the inverter's Rated Power.

TOU Mode

Applicable to areas with a large peak-valley Tariff difference.

In compliance with local laws and regulations, configure the system to buy or export energy based on grid peak-valley Tariff periods. For example, during low Tariff periods, set the battery to charging mode to purchase electricity from the grid for charging; during high Tariff periods, set the battery to discharging mode to supply the load or export energy to the grid.



SEMS0219

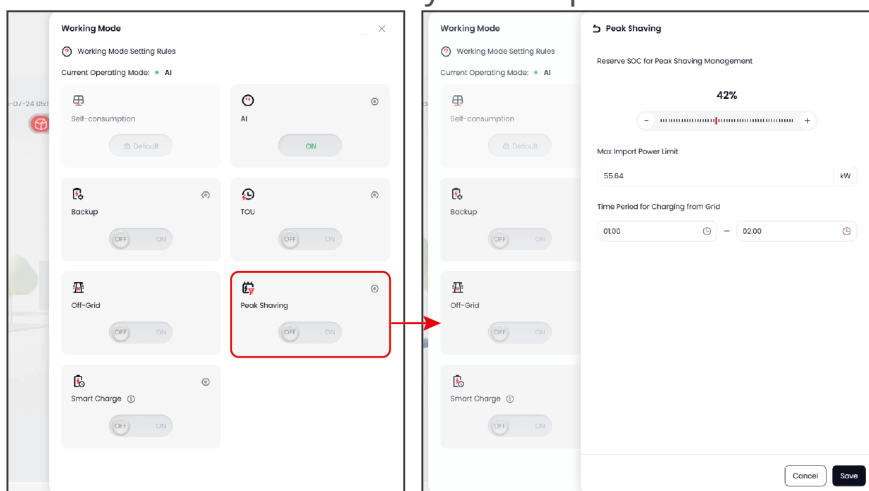
Parameter name.	Description
Start Time	Within the Start Time and End Time, the battery charges or discharges according to the set charging/discharging mode and Rated Power. Outside the time period, it operates in Self-consumption Mode.
End Time	
Charge/Discharge Mode	Set to charge or discharge according to actual needs.
Charge Cut-off SOC	Charging stops when the battery reaches the set SOC.
Grid Import Charging Power	Charging power, as a percentage of the inverter's Rated Power.
Battery Discharge Power	Discharging power, as a percentage of the inverter's Rated Power.

Off-grid Mode

Applicable to areas without a power grid. PV and battery form a pure off-grid system. PV generation powers the load, and excess energy charges the battery. When PV generation cannot meet the load demand, the battery supplies the load.

Demand Control

Applicable to scenarios where the peak power purchased from the grid is limited. When the total load power approaches the power quota limit, battery discharge is used to reduce the electricity consumption that exceeds the quota.

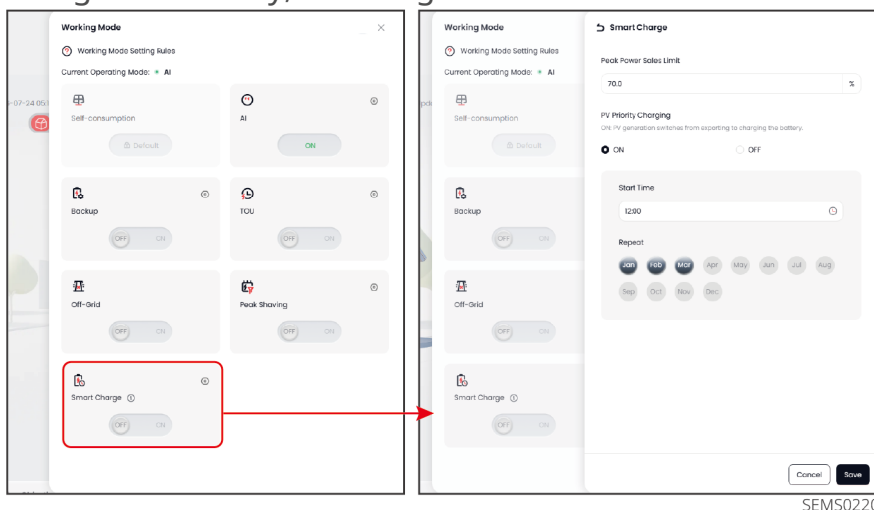


SEMS0221

Parameter name.	Description
Reserved SOC for Demand Control	In Demand Control Mode, the reserved SOC is used for demand control. When the battery SOC is higher than the reserved SOC, the demand control function is disabled.
Grid Purchase Peak Limit	Set the Max. Power limit allowed for purchasing electricity from the grid. When the load power exceeds the sum of the PV generated power and this limit, the battery discharges to supply the shortfall.
Time Period for Charging from Grid	During the Time Period for Charging from Grid, if the load consumption does not exceed the purchased power quota, the battery can be charged from the grid. Outside this time period, the battery can only be charged using PV generation power.

Smart Charging (Delayed Charging)

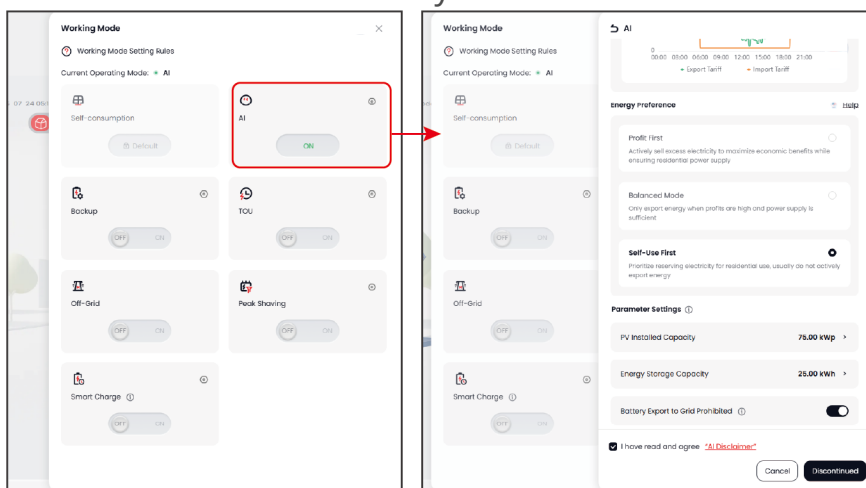
Applicable to areas with grid-connected power output limits. Set the peak power limit and the Charging Time to use PV generation exceeding the grid-connected limit to charge the battery, reducing PV waste.



Parameter name.	Description
Peak Power Sales Limit	Set the peak power limit according to grid standard requirements in certain countries or regions. The peak power limit must be lower than the locally specified output power limit.
PV Priority Charging	Within the Charging Time, surplus PV generation after supplying the load is prioritized for battery charging. Outside the Charging Time, surplus PV generation after supplying the load is prioritized for Export Energy.
Start Charging Time	

AI Mode

AI Mode can be enabled when a Home Energy Management System (HEMS) or cloud EMS function is used in the system.



SEMS0217

Set the Tariff according to user needs, and combine AI calculation to optimize scheduling, maximizing energy and economic Efficiency. When using AI Mode, during the initial stage of collecting plant information, the predicted curve may deviate from actual conditions.

Before enabling AI Mode, please set a Tariff plan first. When the Tariff plan is a fixed tariff, AI Mode is not supported.

Select Time-of-Use Tariff or Dynamic Pricing, supports:

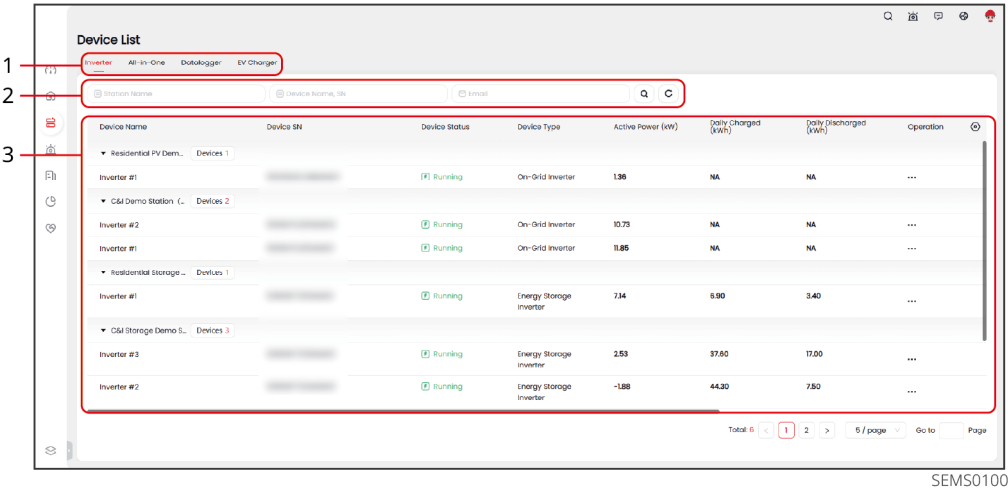
- Dynamic Pricing: Obtain Dynamic Pricing from the power company, and, combined with the user-configured tariff surcharge, dynamically adjust the actual purchase and Export Energy tariffs.
- Time-of-Use Tariff: Users set Tariff information for different time periods based on

the actual Tariff. Supports setting multiple groups of Tariffs.

4 Device Monitoring

4.1 Device List Overview

In the "Device List" interface, you can view an overview of all devices under the account, including device name, device serial number, affiliated power station, operation status, etc.



SEMS0100

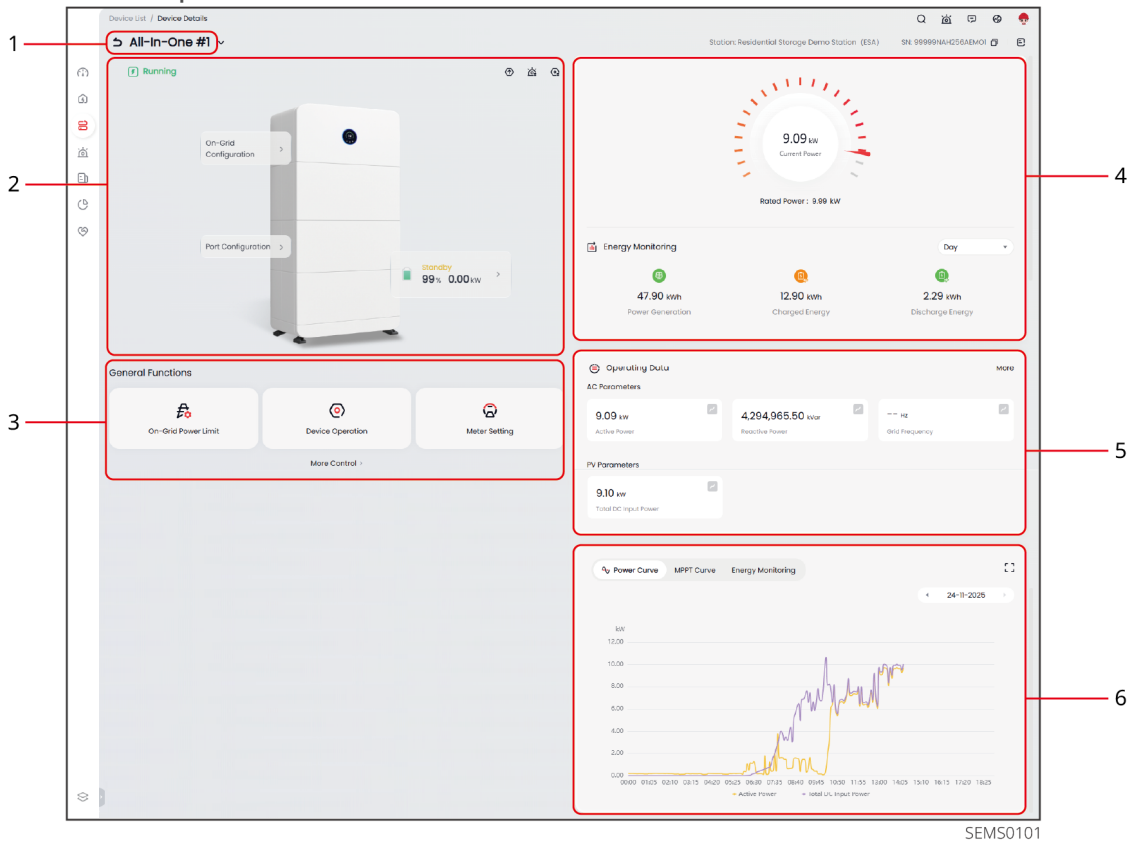
No.	Function Description
1	Device type tab. Displayed according to the actual device types in the power station.
2	Filter the devices to be viewed by entering power station information.
3	Display overview information of all devices of the same type under the account. • Device name, affiliated power station, serial number, status, type, power, Energy Generation, and other information. Displayed information can be adjusted via configuration. • Click the device name to enter the device detail interface. • Click Modify the device name or add device remarks. • Click ...> ,Delete the device.

4.2 Device Details

In the "Device List", click the "Device Name" of the specific device you want to view to

enter the "Device Details" interface.

In the "Device Details" interface, you can view device information, operation status, Energy Generation, power curve, or set device parameters such as working mode, grid connection parameters, safety regulation parameters, battery parameters, etc. Different devices display different detail interfaces; please refer to the actual situation. The following figure uses the commercial and industrial integrated cabinet as an example.



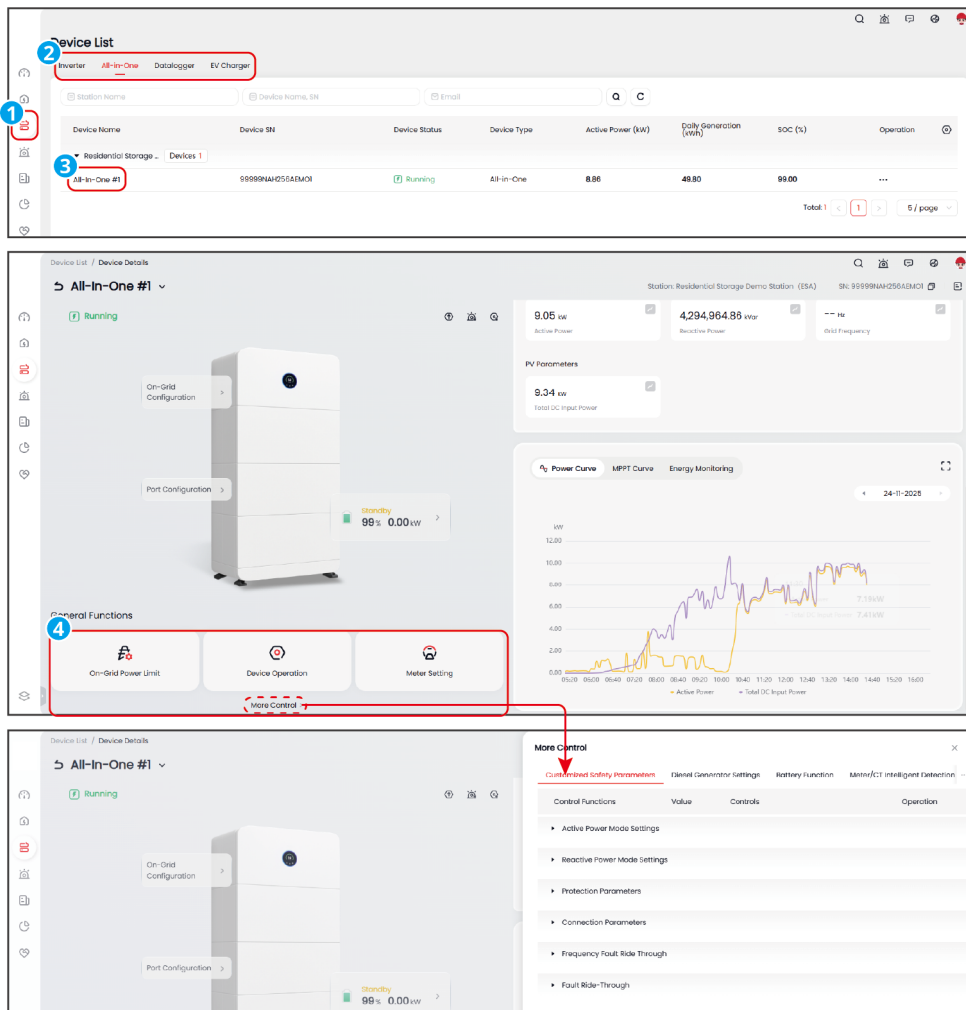
No.	Function Description
1	Display device SN, affiliated power station, and other information. - Click Can switch to other devices in the power station. - Click Can copy the deviceSNnumber. - Click You can view detailed device information, such as device type, model, addition time, Rated Power, etc.

No.	Function Description
2	• Device operation status. • Click  Upgrade the device or view device upgrade records. • Click  View alarm records. • Click  View device control records. • For some devices, such as integrated machines, provide quick access to view or set details of PCS, batteries, etc.
3	• Display quick access entries for common controls. • Click 'More Control' to view all control items of the device.
4	• Displays the current power and rated power value. • Displays energy generation by day, week, month, year, and all dimensions.
5	• Displays device operating data. • Click  Can display parameter curve charts. • Click 'More' to view all data details.
6	• Display power curves, MPPT curves, and energy monitoring curves within each time dimension. • Click  Enlarge and display the curve chart.

4.3 Set Device Parameters

Parameter items vary for different devices; please refer to the actual interface.
Operating steps:

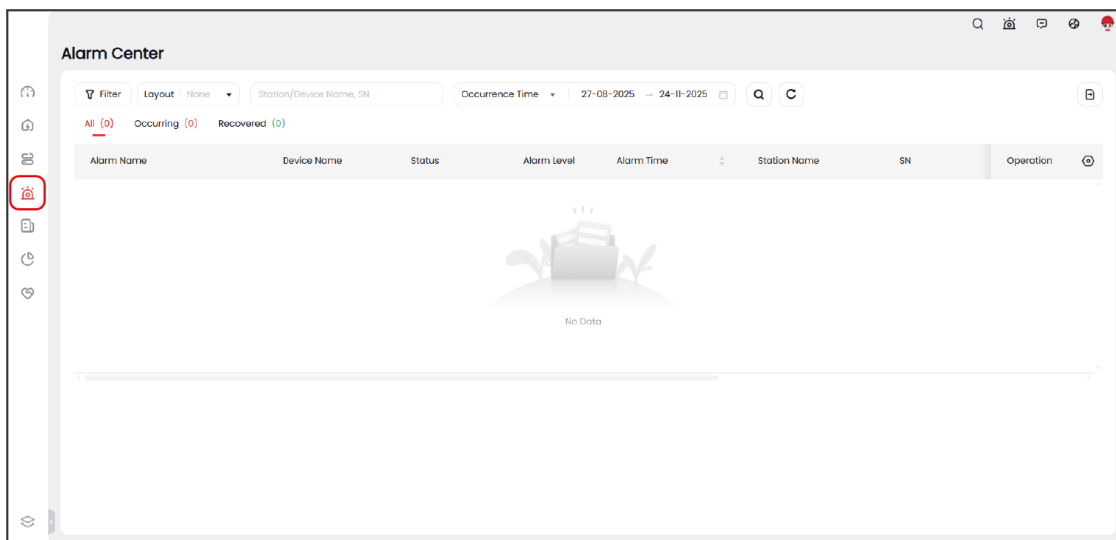
1. Click "Device List" and select the device type tab according to actual needs.
2. Click the name of the device to be configured to enter the device details interface.
3. Click "More Settings" and set parameters according to actual needs.



5 Alarm Management

Through the Alarm Center interface, you can view alarms from all plants in the account, and perform operations such as acknowledging and downloading alarms.

- Supports filtering by device type, alarm level, alarm type, status, and other information, and saving it as a view.
- Supports filtering alarm information for a specified time period.
- Supports viewing detailed alarm information by clicking the alarm name.
- Click  The types of information displayed on the interface can be adjusted.
- Click  Alarms can be favorited.
- Click  Alarm information can be downloaded.



SEMS0103

6 Intelligent Analysis

Only applicable to some plants; please refer to the actual interface.

6.1 IV Diagnosis

Based on IV curve analysis, perform fault diagnosis on power station equipment, automatically locate faults, and provide improvement suggestions and generate diagnostic reports.

Perform IV Before a diagnosis or scan task, please refer to the task setting operation recommendations to confirm that the operating conditions are met.

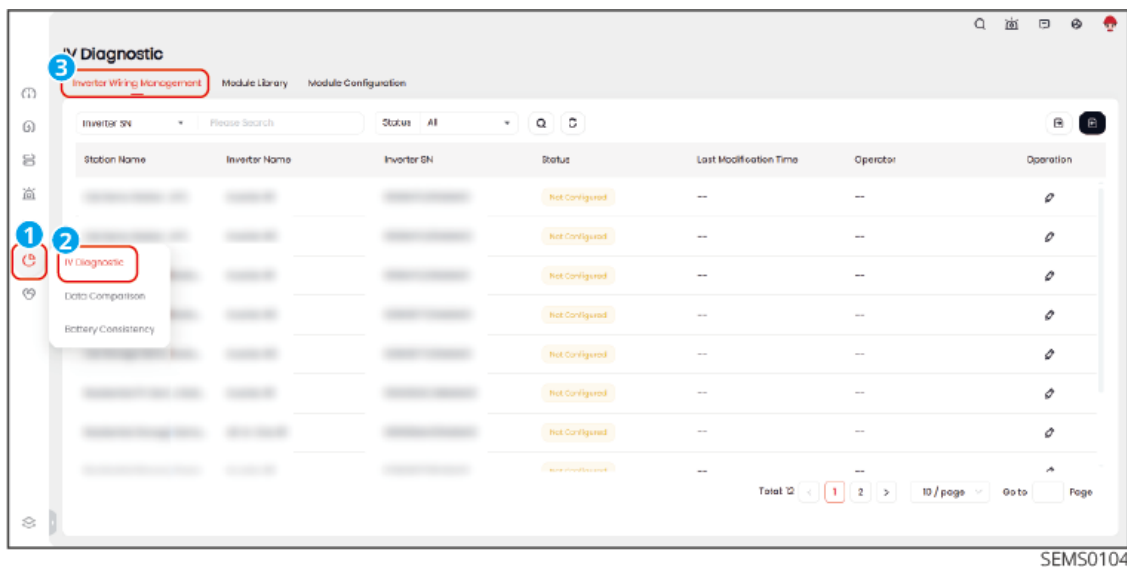
Only applicable to HT 225K series, UT 320K series, and GT G1 series inverters.

6.1.1 Manage Inverter Wiring Information

When the inverter supports connection of multiple strings, the ports of the connected strings need to be configured according to the actual wiring conditions. For example: Inverter A has PV1-10, but strings are actually connected to PV1-3, so you need to select and configure PV1-3.

Operating steps:

1. Click "Analysis" > "IV Diagnosis" > "Inverter Wiring Management".
2. Edit the inverter wiring information according to actual requirements. After configuration is completed, the status is displayed as "Configured".
 - If a single inverter needs to be configured, click  to configure it.
 - If multiple inverters need configuration, click "Download Template", fill in the module information in the template, and click  Batch Upload.



SEMS0104

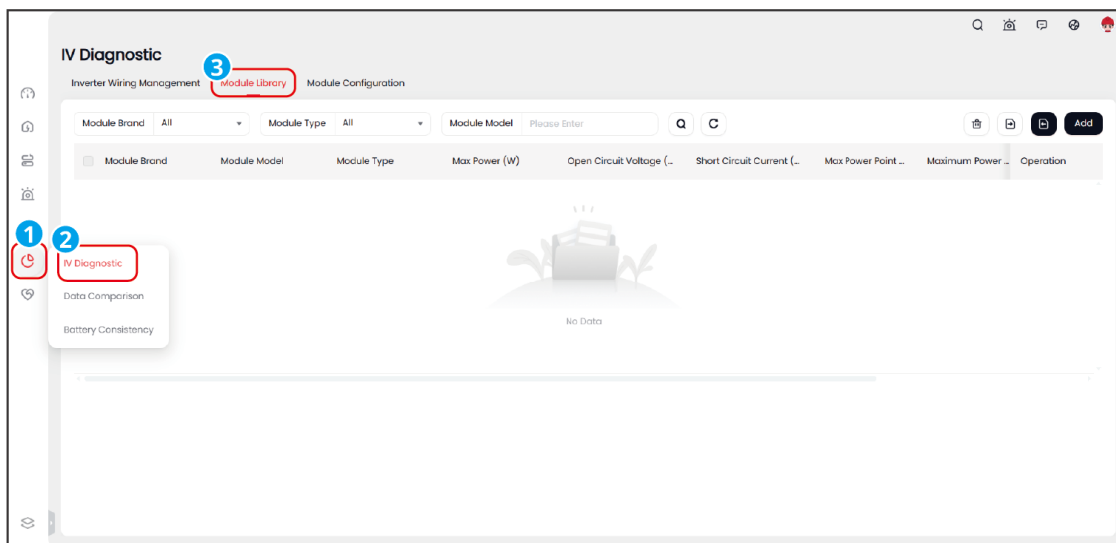
6.1.2 Manage Module Information

Manage Module Library

Supports adding, deleting, or downloading module information in the power station, including module brand, model, type, power, current, voltage, etc.

Operating steps:

1. Click "Analysis" > "IVDiagnosis" > "Module Library" to enter the Module Library management interface.
2. Add or delete Module Library information according to actual needs.
 - If a single module needs to be added, click "Add" to add a single module.
 - If multiple modules need to be added, click "Download Template", fill in the module information in the template, and click  Batch Upload.
 - After checking the modules, click  Delete the selected modules.
 - Click  Download the module information in the current Module Library.



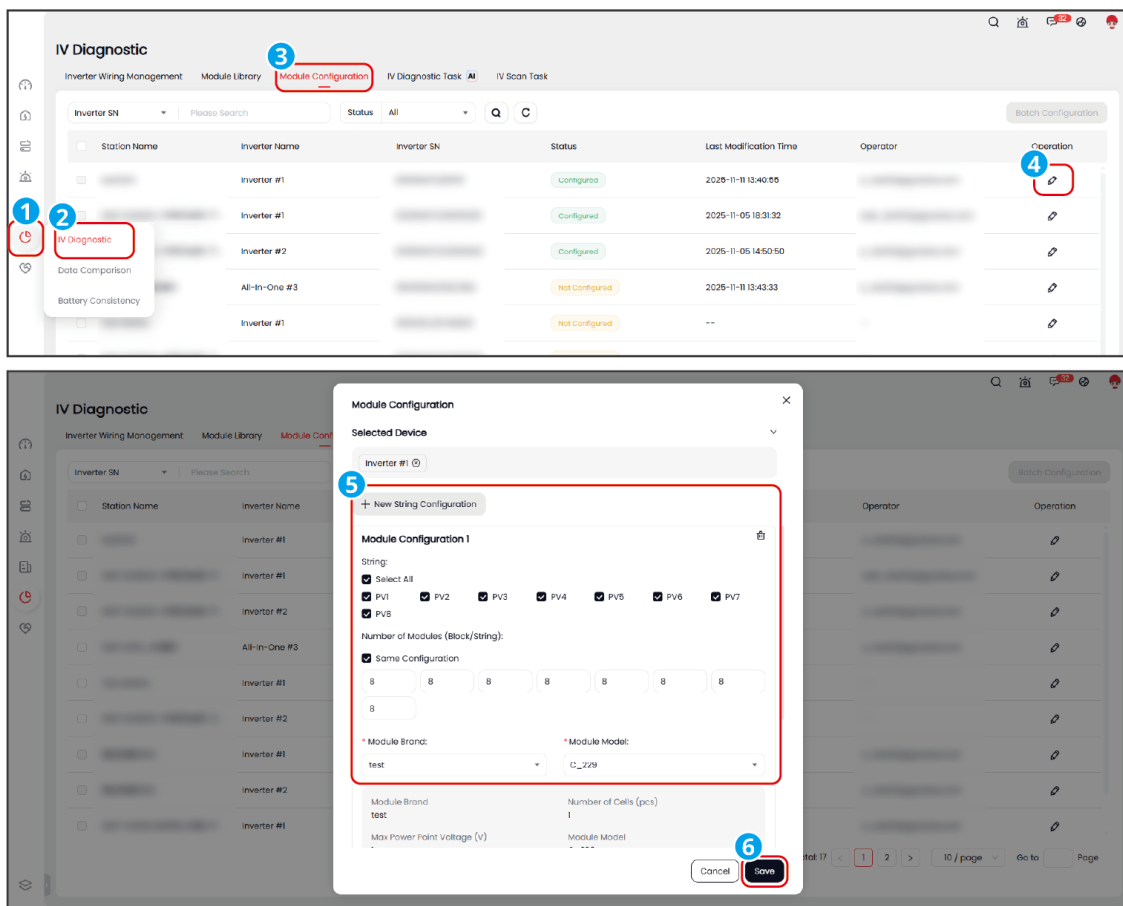
SEMS0105

Manage Module Configuration

Supports configuring each MPPT input of the inverterPVThe module information used. Before configuring the inverter module information, please confirm that the corresponding module information has been added in the Module Library.

Operating steps:

1. Click "Analysis" > "IVDiagnosis" > "Module Configuration".
2. For inverters in the "Not Configured" status, click  to enter the configuration interface.
3. Configure the inverter module information according to actual needs. Then click "Save".

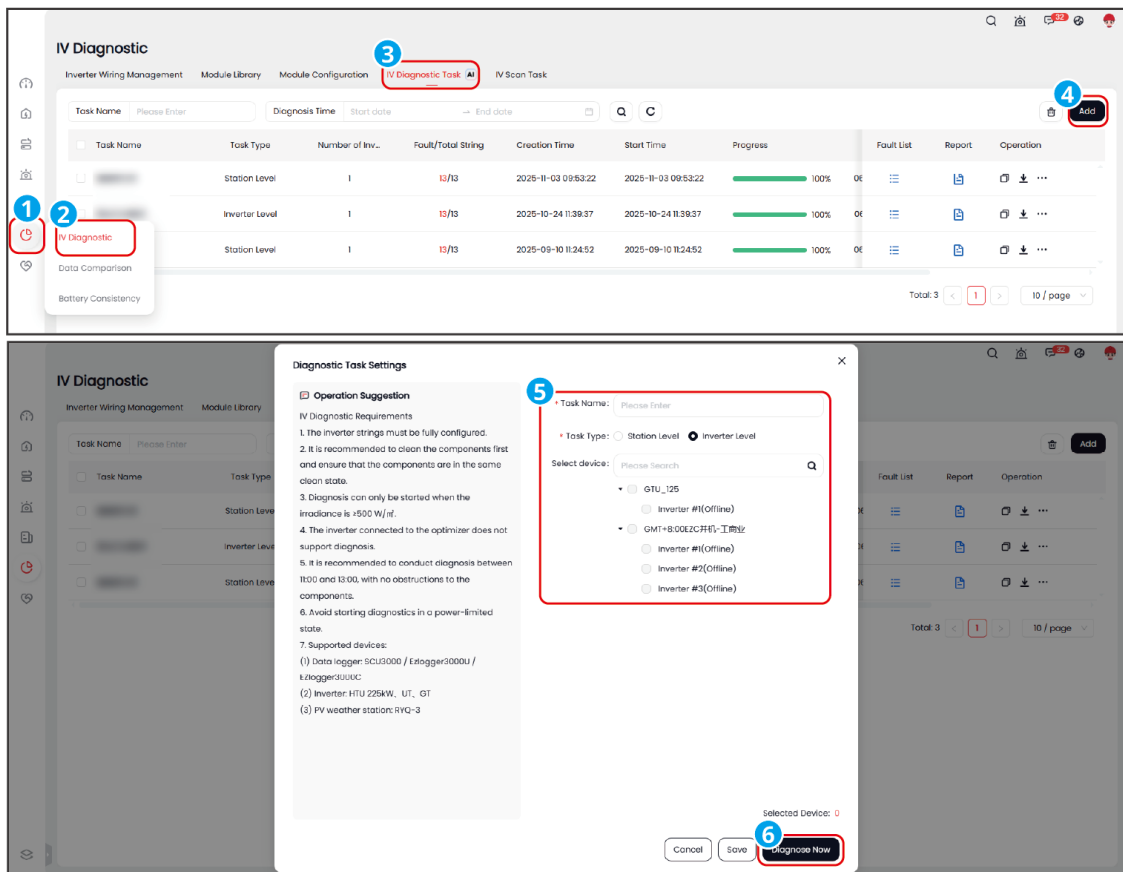


SEMS0106

6.1.3 IV Diagnosis Task

Operating steps:

1. Click "Analysis" > "IV Diagnosis" > "IV Diagnosis Task" to enter the diagnosis interface.
2. Click "Add" to enter the Create Diagnosis Task interface. Fill in the task requirements as needed and click "Diagnose Now" to start the task.
3. After the diagnosis is completed, it automatically returns to the I-V diagnosis interface, where you can view the task progress and other information.
 - Click View reports, export reports;
 - Click Download reports;
 - Click ... > Delete reports.



SEMS0107

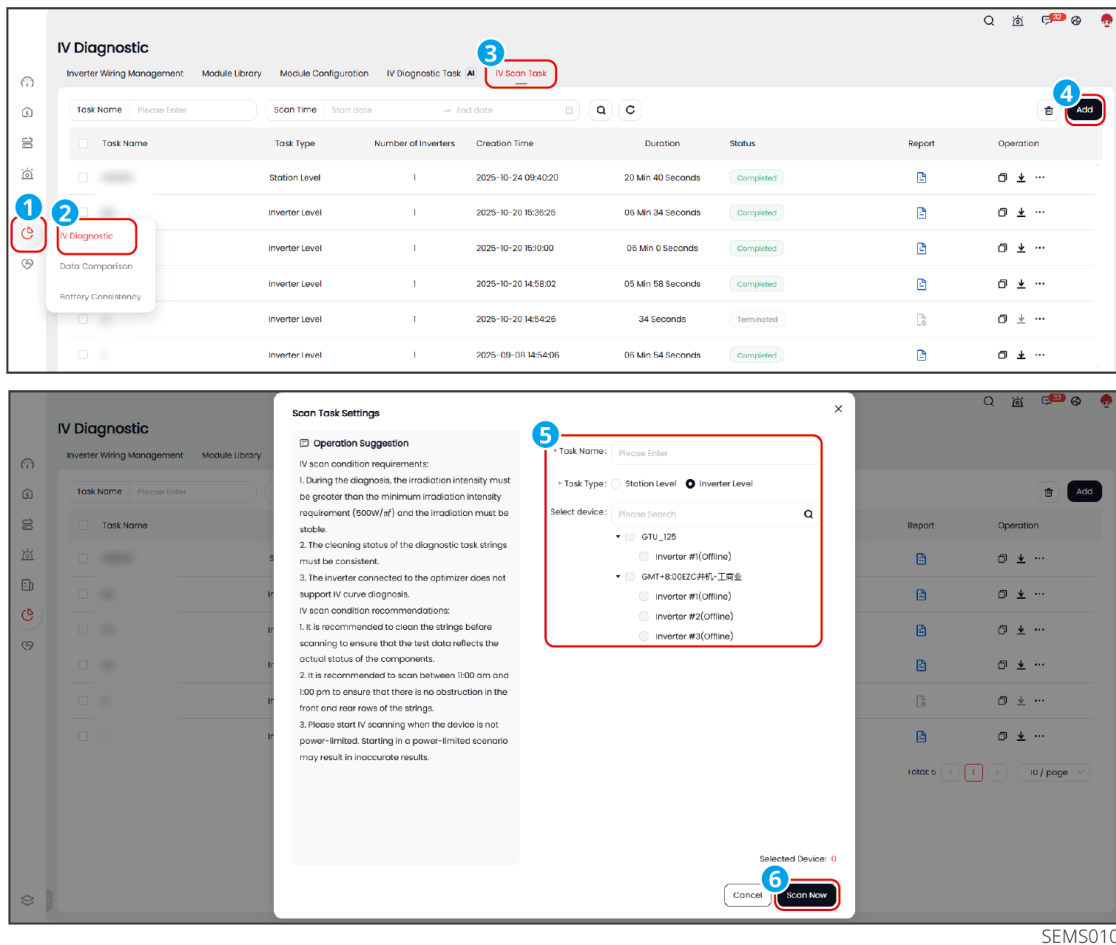
6.1.4 IV Scan Task

Steps1:Click "Analysis">"IVDiagnosis">"IVScan Task" to enter the Diagnosis interface.

Steps2:Click "Add" to enter the Create Scan Task interface. Fill in the task requirements as needed and click "Scan Now" to start the task.

Steps3:After the scan is completed, it automatically returns toIVthe Diagnosis interface, where you can view task progress and other information.

- Click View reports, export reports;
- Click Download reports;
- Click ... > Delete reports.



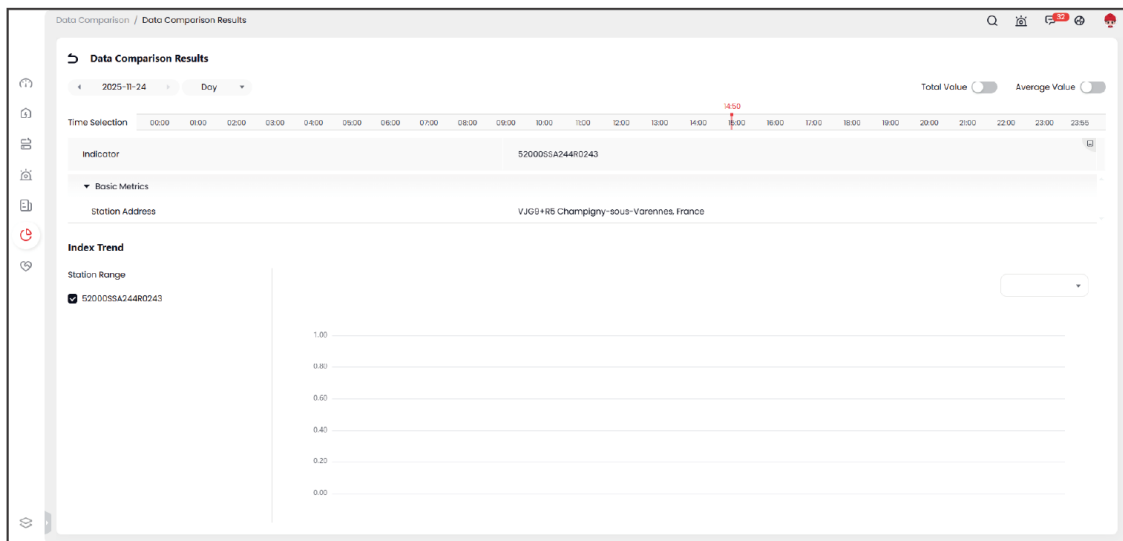
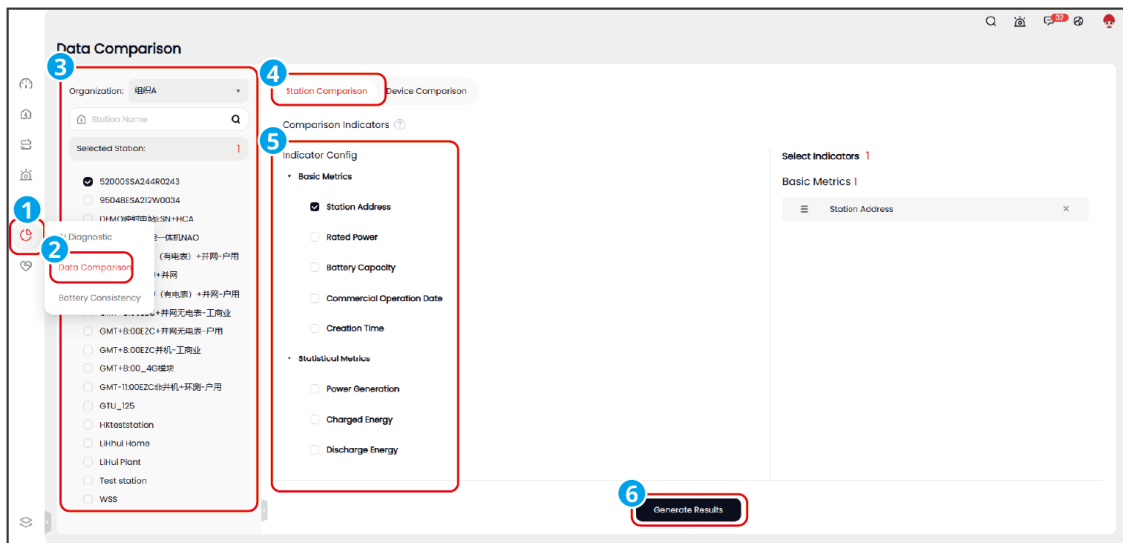
SEMS0108

6.2 Data Comparison

Support selecting multiple power stations to perform Data Comparison between stations and between devices under a station.

Operating steps:

1. Click "Analysis" > "Data Comparison" to enter the Data Comparison interface.
2. Select the power stations to be compared.
3. Select "Station Comparison" or "Device Comparison" according to the actual situation, and configure the indicators to be compared.
4. Click "Generate Results" to enter the comparison data display interface.



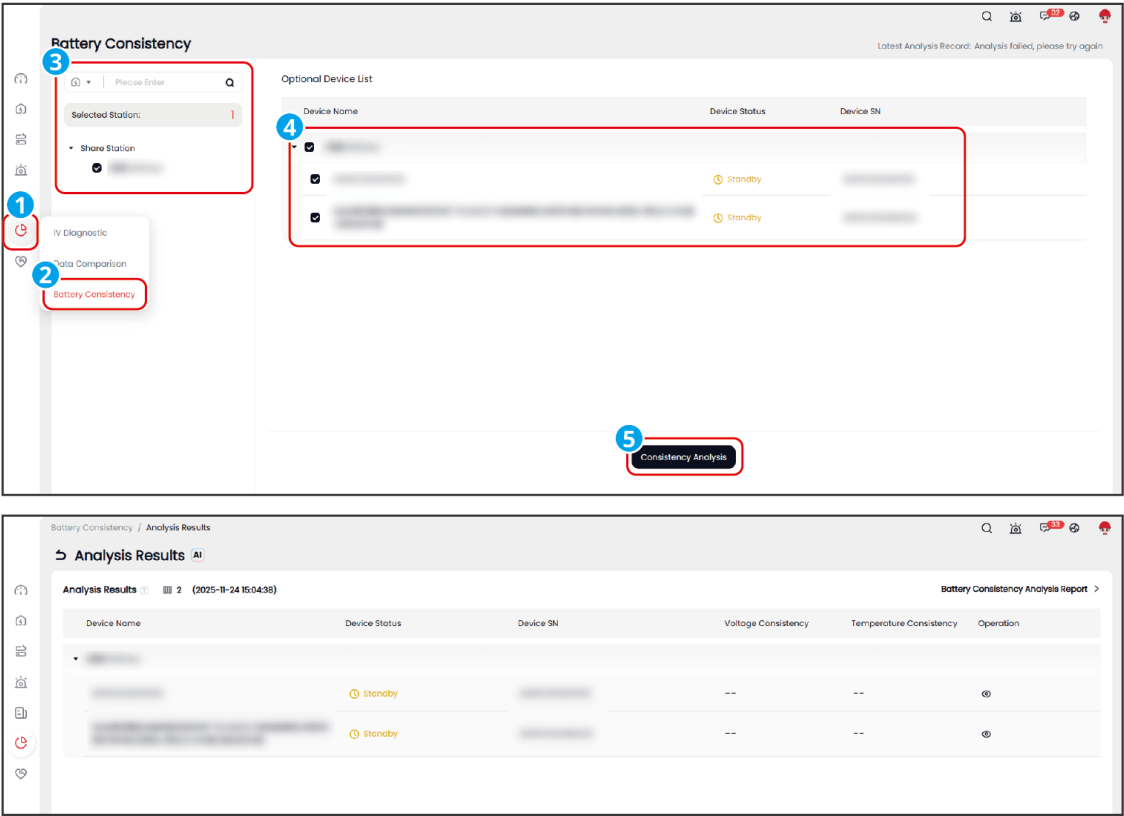
SEM50109

6.3 Battery Consistency Analysis

Supports selecting multiple batteries to perform temperature consistency and voltage consistency analysis in batches, improving monitoring Efficiency.

Operating steps:

1. Click "Analysis" > "Battery Consistency Analysis" to enter the Data Comparison interface.
2. Select the power stations and devices to be compared.
3. Click "Consistency Analysis". After the analysis is completed, you will enter the analysis results screen. If needed, click to download the consistency analysis report.



SEMS0110

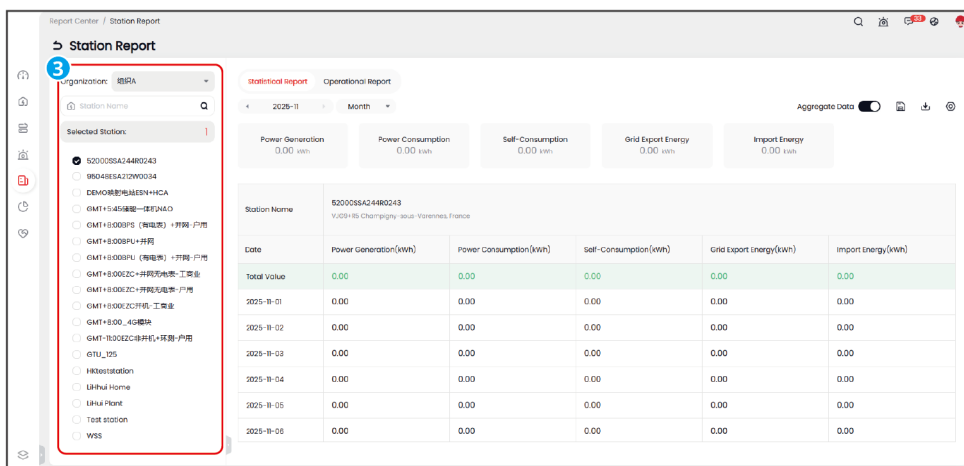
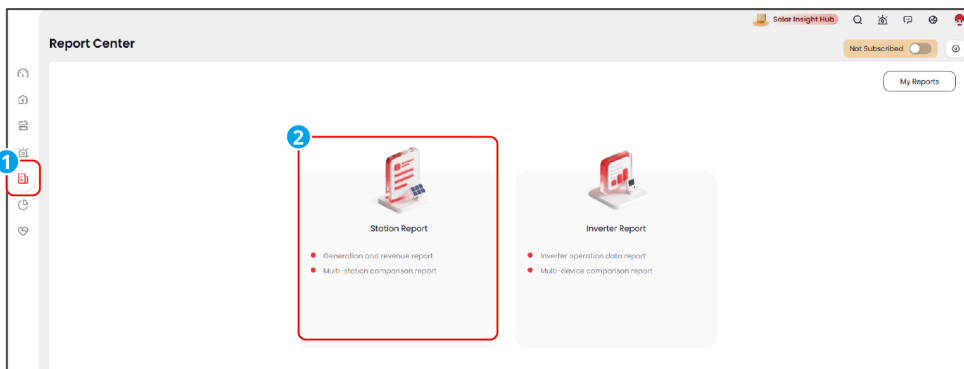
7 Report Management

Log in to WEB and click "Report Center" in the navigation bar to view or set report information.

7.1 View Plant Reports

Operating steps:

1. Click 'Report Center' > 'Station Report' to enter the settings interface.
2. Select one or more power stations to view.
3. Select the report type, time range, etc. to view according to actual needs, and the report information will be displayed. Click You can set the statistics indicators, sorting, and other information in the report.
4. (Optional): If necessary, click download or store the report.

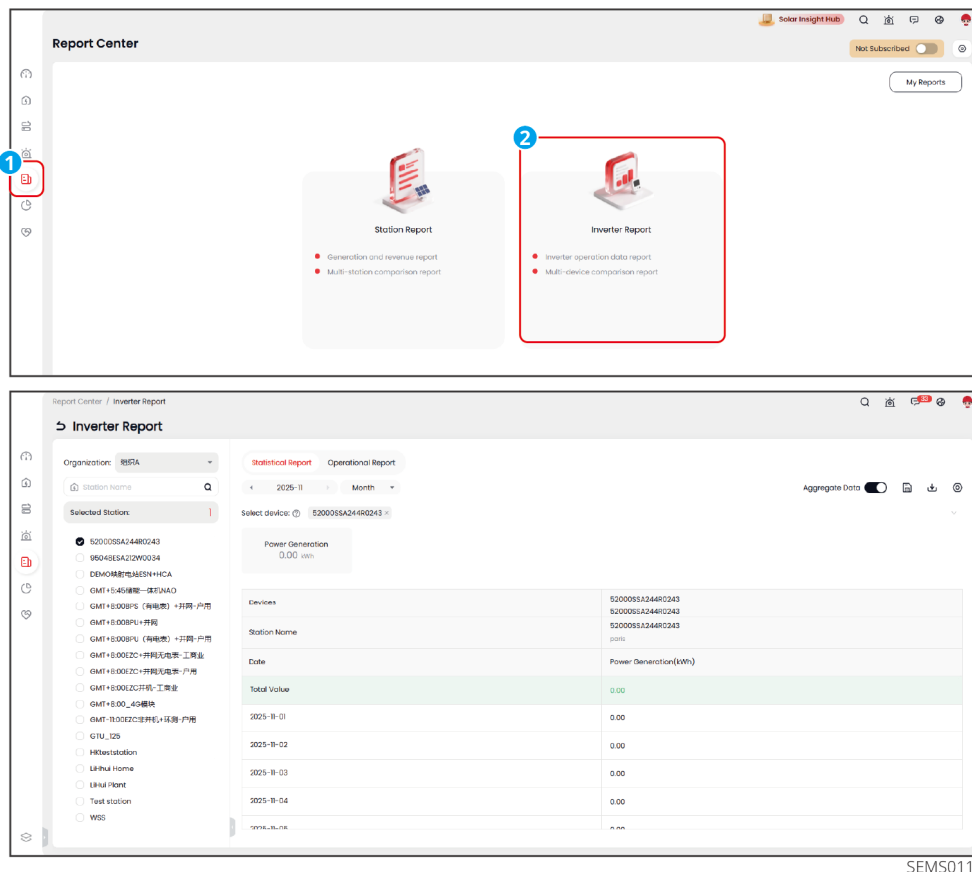


SEMS0111

7.2 View Device Reports

Operating steps:

1. Click 'Report Center' > 'Inverter Equipment Report' to enter the settings interface.
2. Select one or more power stations to view.
3. Select the report type, time range, etc. to view according to actual needs, and the report information will be displayed. Click  You can set the statistics indicators, sorting, and other information in the report.
4. (Optional): If necessary, click  download or  store the report.



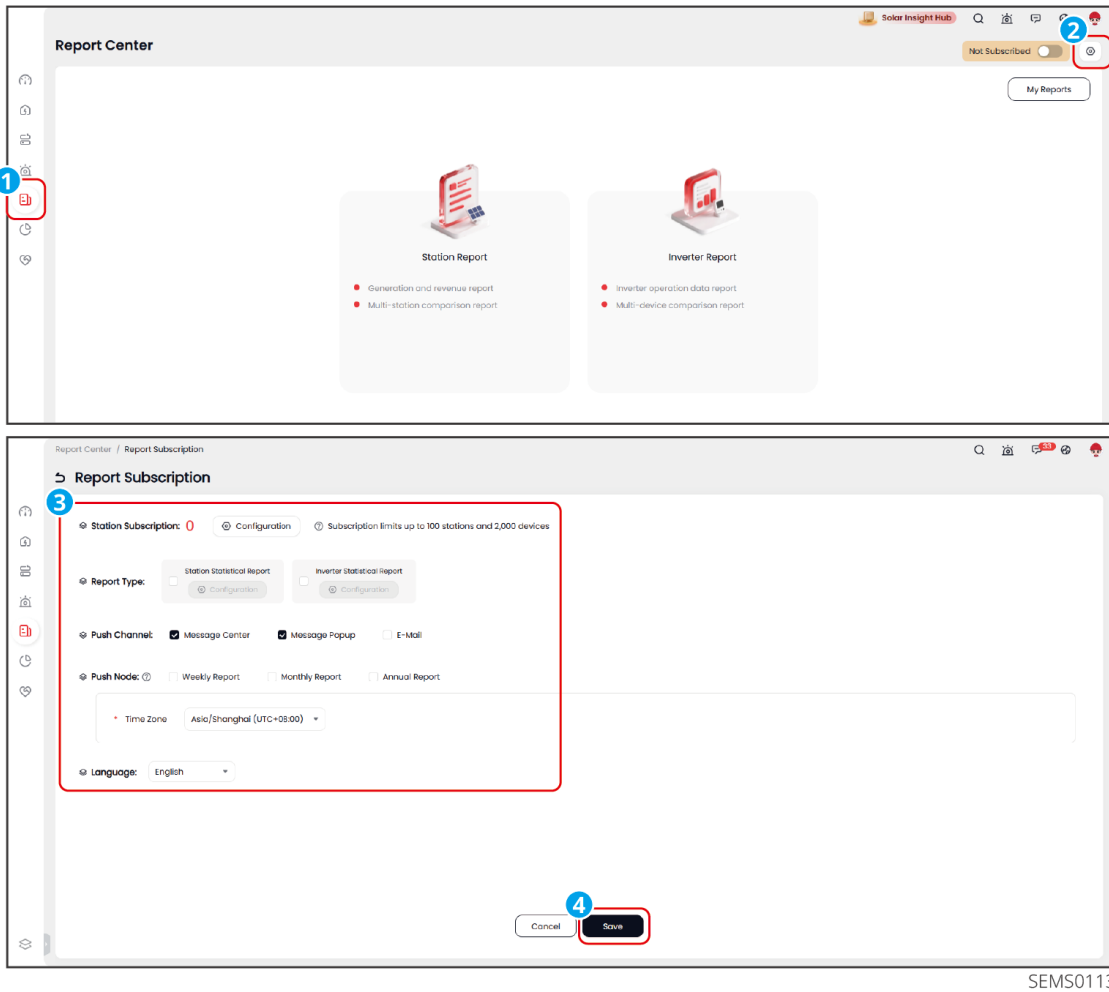
SEMS0112

7.3 Set Report Subscription Information

Supports customizing report information and push methods according to actual needs. Supports selecting the organization type, report type, push node, push channel, etc. for pushing reports.

Operating steps:

1. Click 'Report Center' > 'Report Subscription' to enter the settings interface.

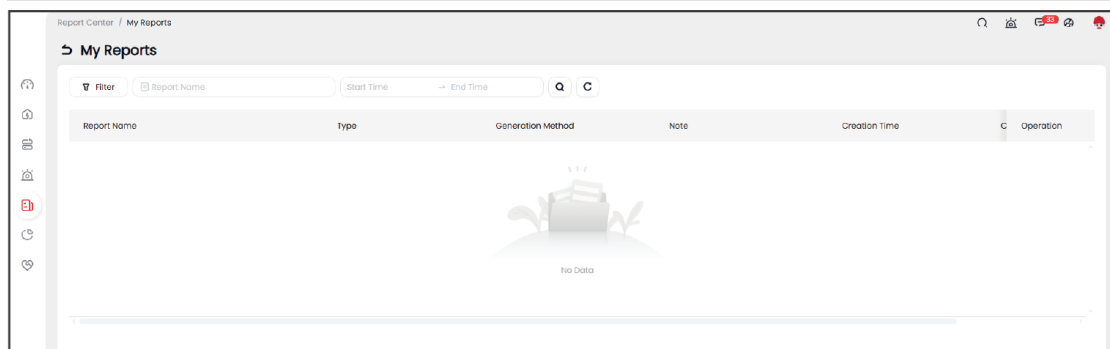
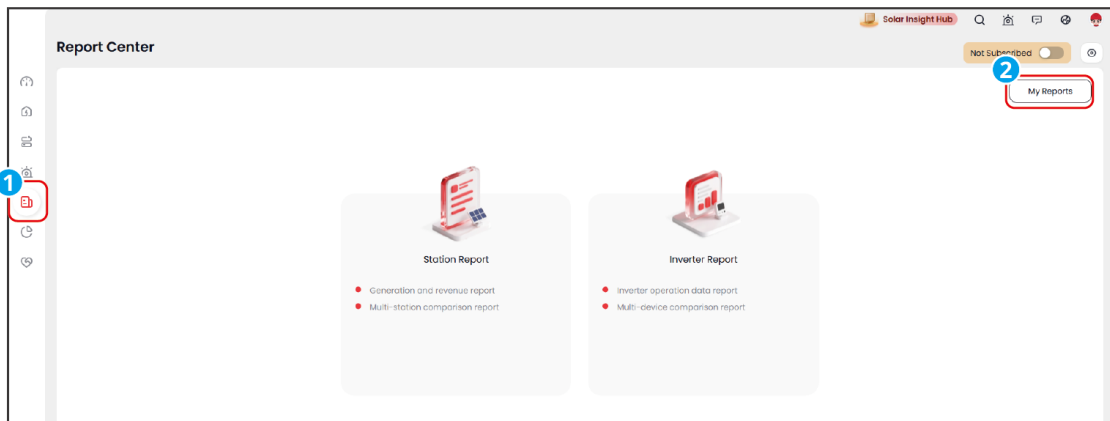


SEMS0113

7.4 Query My Reports

Operating steps:

1. Click 'Report Center' > 'My Reports' to enter the My Reports screen, and filter, view, download, or delete reports as needed.

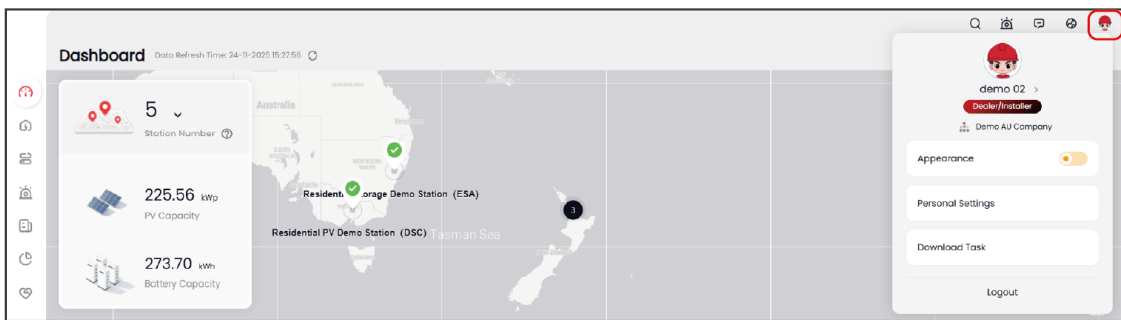


SEMS0114

8 Personal Center Management

Supports personalized settings for the account, such as switching web interface appearance, modifying personal information, viewing download tasks, etc.

- Click "Appearance" to switch web interface display appearance supports light and dark mode.
- Click "Personal Settings" to set personal information, preference settings, Subscription Configuration, change password, etc.
- Click "Download Tasks" to view and manage the progress of all export tasks.

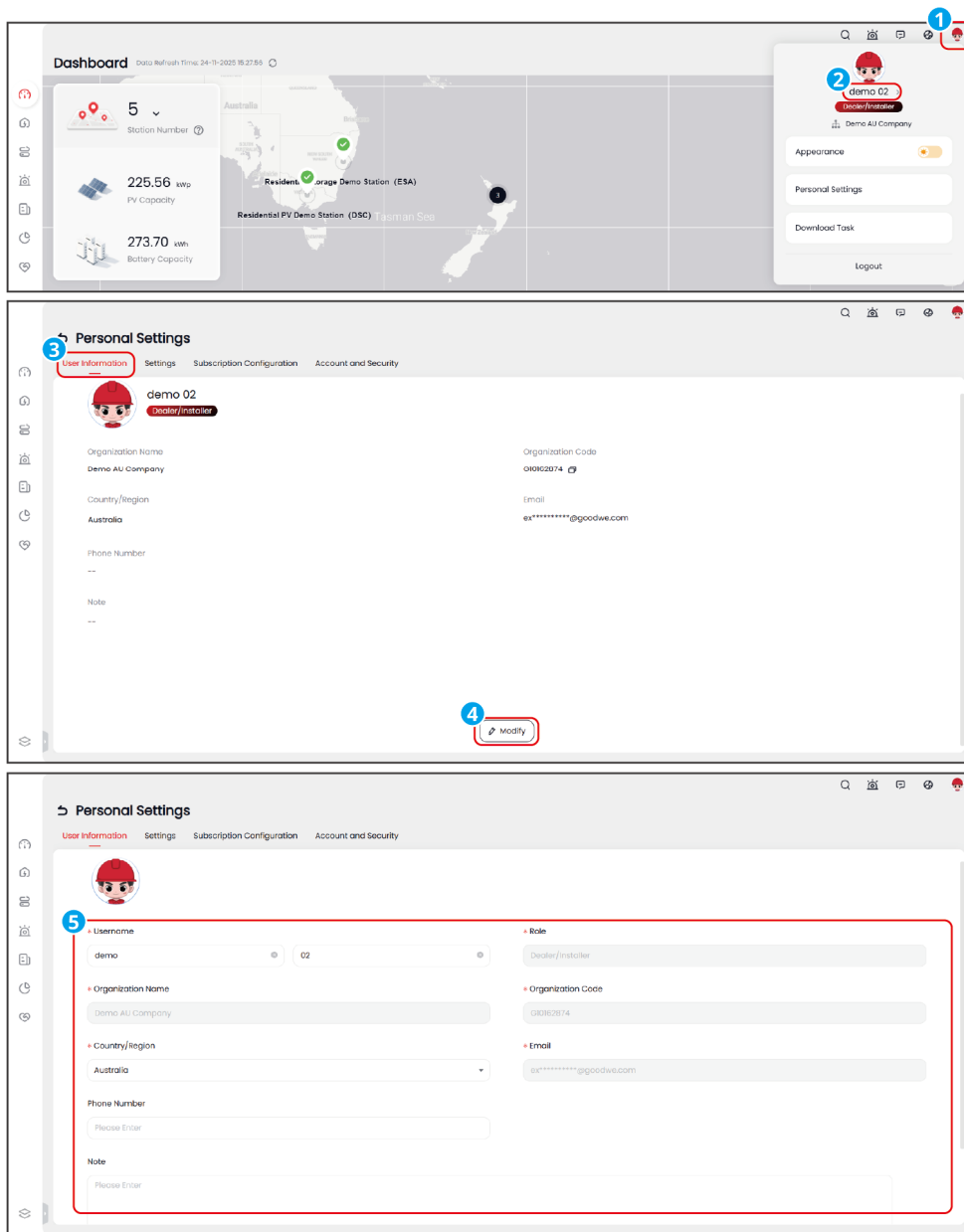


SEMS0115

8.1 Modify User Information

Operating steps:

1. Click web Account avatar in the upper-right corner of the interface > 'Personal Settings' > 'User Information'.
2. Click 'Modify' to update the account information that needs to be changed, such as avatar, username, and country/region.
3. Click "Save" to complete the modification.



SEMS0116

8.2 Use AI Assistant

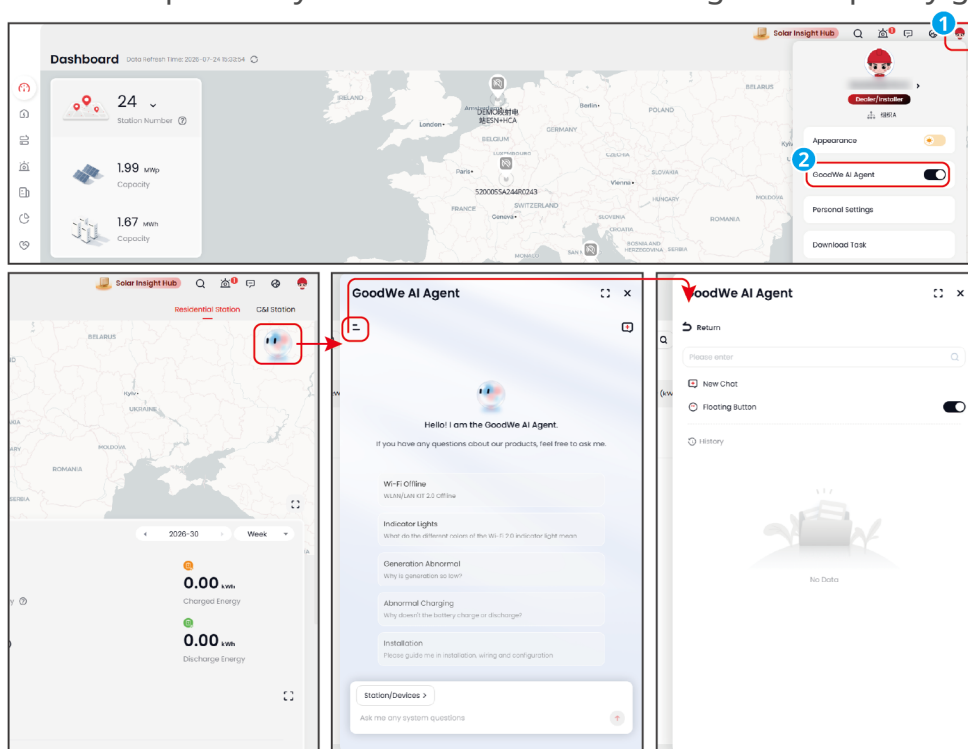
Through the GoodWe AI Assistant Q&A format, quickly obtain image and text information.

- Supports querying knowledge base information, such as GoodWe product and equipment manuals, etc.
- Supports querying business data, such as Energy Generation information, fault information, power information, etc.

- Supports querying external data, such as weather information, date information, etc.
- Supports providing feedback and suggestions on AI responses. When AI cannot resolve the issue, it can be transferred to manual handling with one click and generate an after-sales work order.

Operating steps:

1. Click the account avatar in the upper right corner of the interface > 'GoodWe AI Assistant' to enable the AI assistant.
2. Enter the question you want to ask in the dialog box to quickly generate an answer.

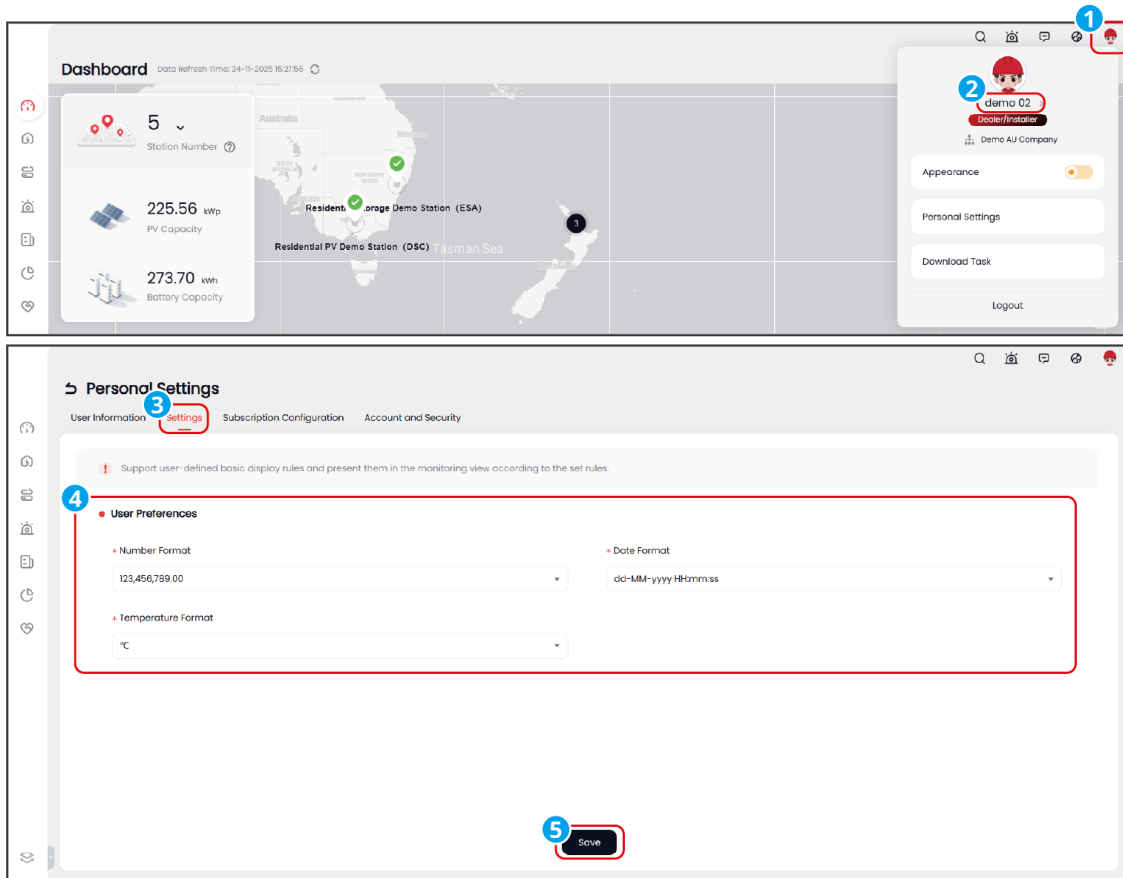


SEMS0192

8.3 Set Preferred Format

Operating steps:

1. Click webAccount avatar in the upper-right corner of the interface > 'Personal Settings' > 'Settings'.
2. Modify the number display format, date format, temperature format, etc.
3. Click "Save" to complete the modification.

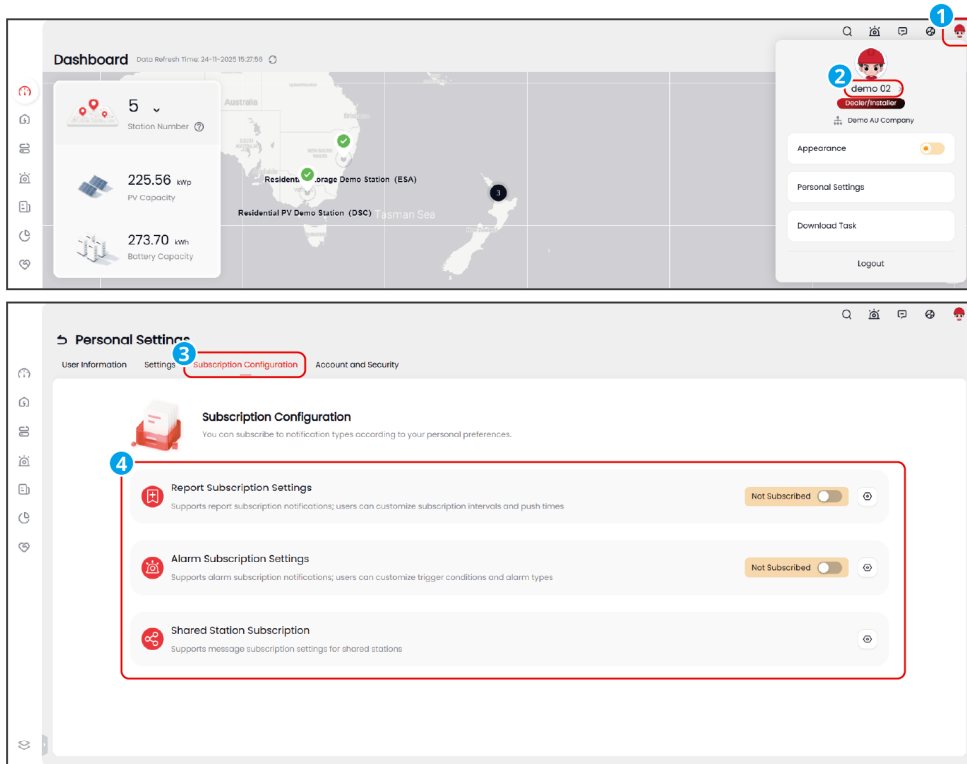


SEMS0117

8.4 Set Subscription Information

Supports configuring report subscription, alarm subscription, and shared station subscription information.

- Report Subscription: Supports customizing report information and push methods according to actual needs. Supports selecting the organization type, report type, push node, push channel, etc. for pushing reports.
- Event Subscription: After it is enabled, users can receive notifications when device alarms, faults, or operating status changes occur. Supports setting the station for pushing alarms, alarm type, push time point, etc.
- Shared Station Subscription: When a station is shared by others, set the message push channel for the shared station.
- Tariff expiration reminder: disabled by default. After enabling, a notification will be sent when the Tariff expires.

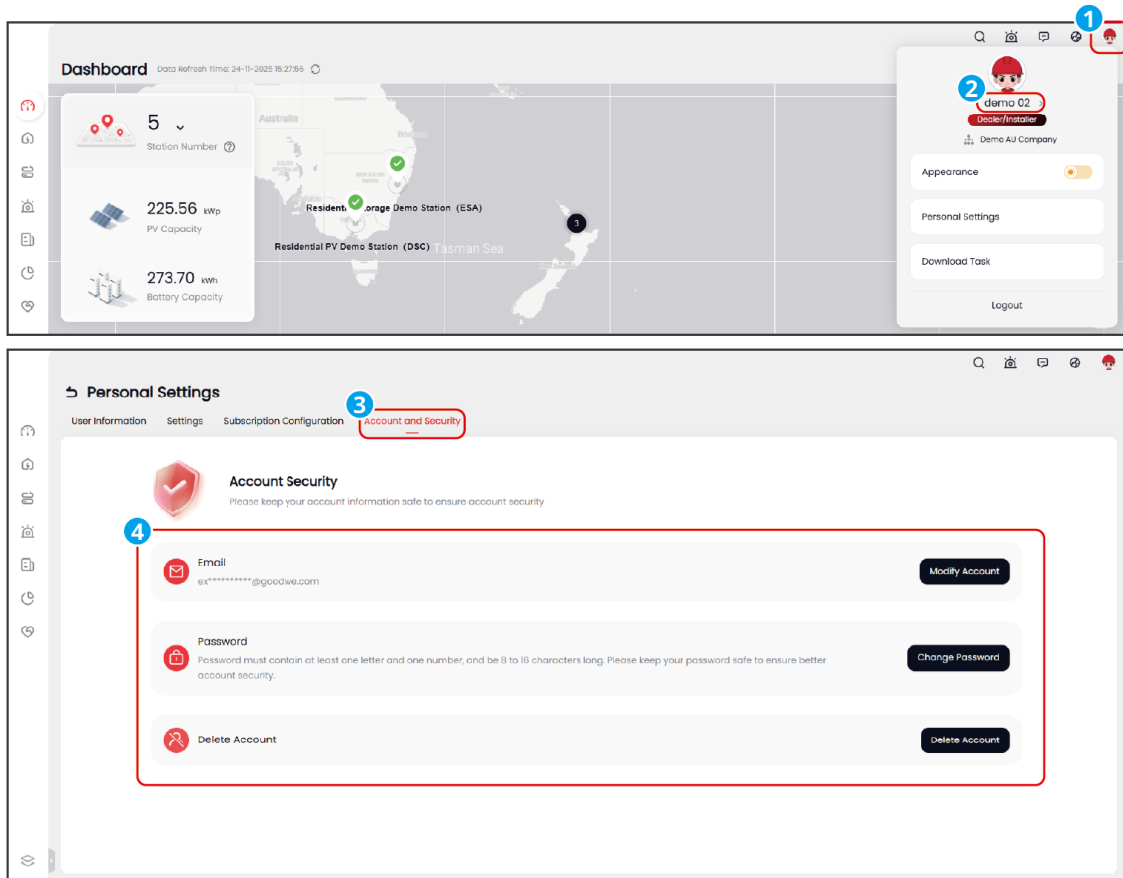


SEMS0118

8.5 Modify Account Information

Supports modifying the email address bound to the account and the login password. Operating steps:

1. Click the account avatar in the upper-right corner of the web interface > 'Personal Settings' > 'Account & Security'.
2. Click 'Modify Account' or 'Modify Password' according to actual needs. Click 'Save' after modification.
3. After the modification is completed, the interface automatically redirects to the login screen. Please log in again.



SEMS0119

8.6 Set Monitoring Permissions

NOTE

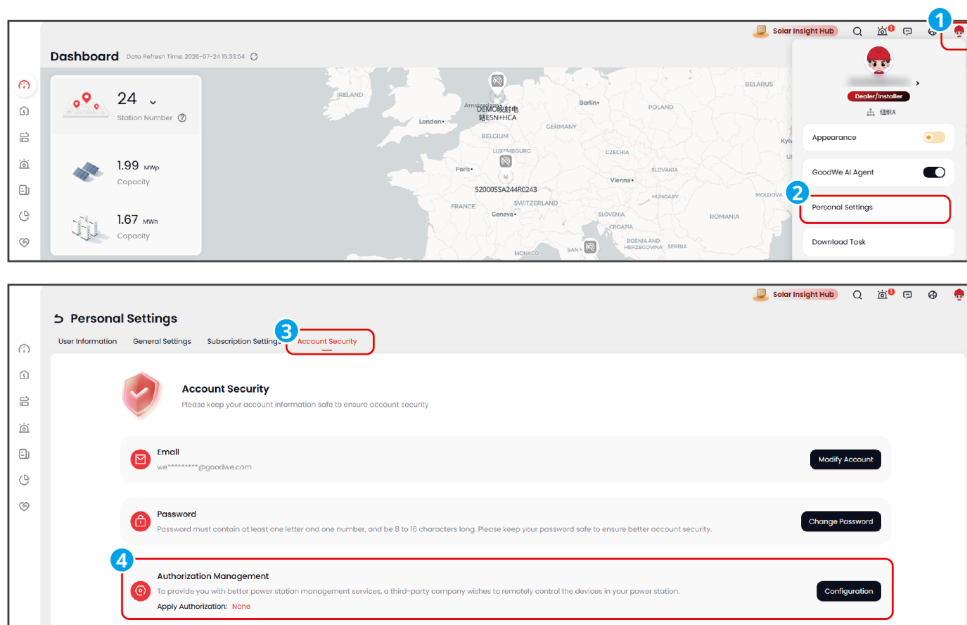
- Only applicable to Europe and Australia servers.
- If third-party Remote Control is required, contact the manufacturer to add authorization, and fill in battery capacity and other information as prompted on the interface.
- Monitoring Authorization applies only to owner accounts. According to European GDPR regulations, owners can set monitoring permissions and Remote O&M permissions as needed. Except for the owner and authorized visitors, no other accounts can monitor or operate this power station.

Operating steps

1. Click the account avatar in the upper right corner of the web interface, then go to

"Personal Settings" > "Account Security" > "Authorization Management" to enter the authorization management interface.

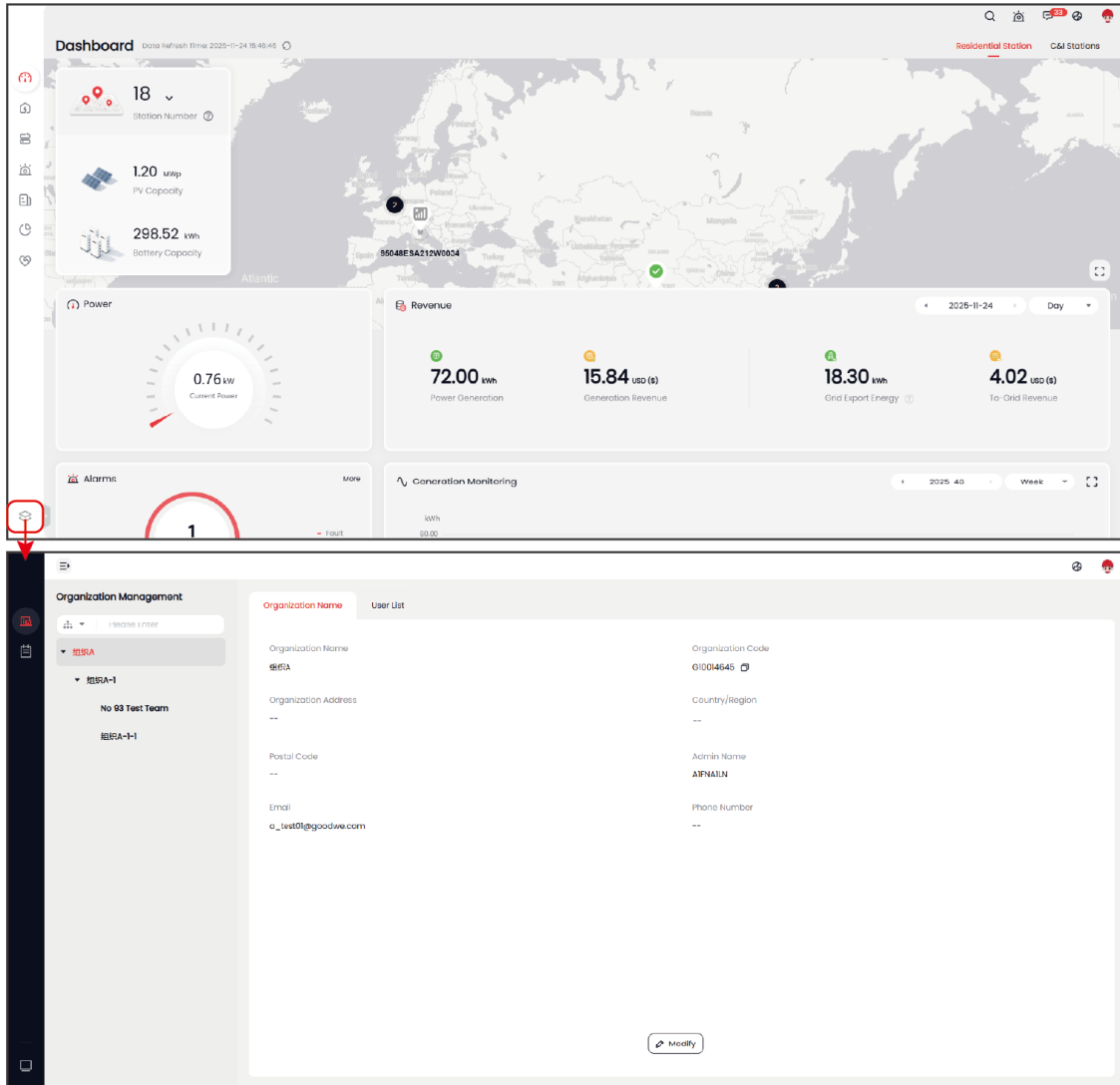
2. Set monitoring permissions according to actual needs.



SEMS0194

9 Organization and Management

Only applicable to administrator accounts.



SEMS0120

9.1 Manage Organization Information

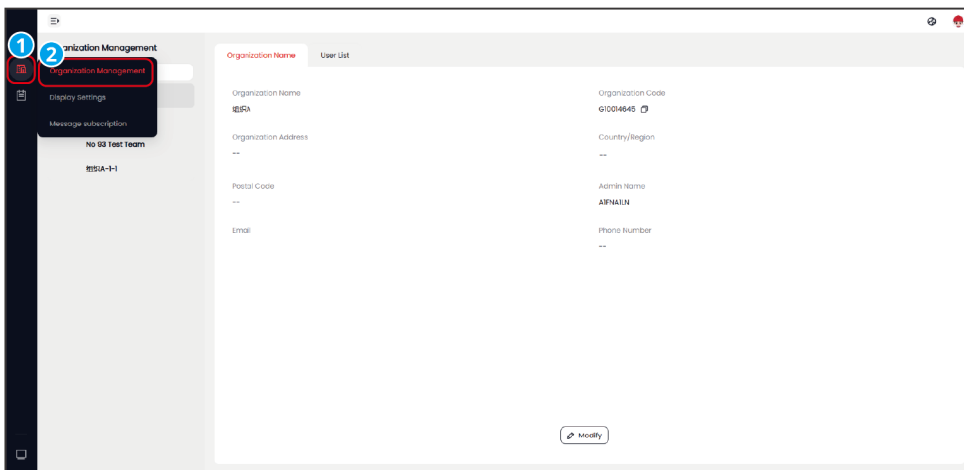
Operating steps:

Click "Backend Management" > "Organization Management" > "Organization Management".

- Supports adding or deleting organizations. After the organization name, click "+" to create a new organization, with a maximum of 5 levels; click "...>🗑️" to delete an

organization.

- Supports modifying organization information. In the "Organization Information" interface, click "Modify" to make changes.
- Supports managing users under the organization. In the "User List" interface, click "Create User" to add a user to the organization; click  reset the account password; click  edit user information; click  delete the user.



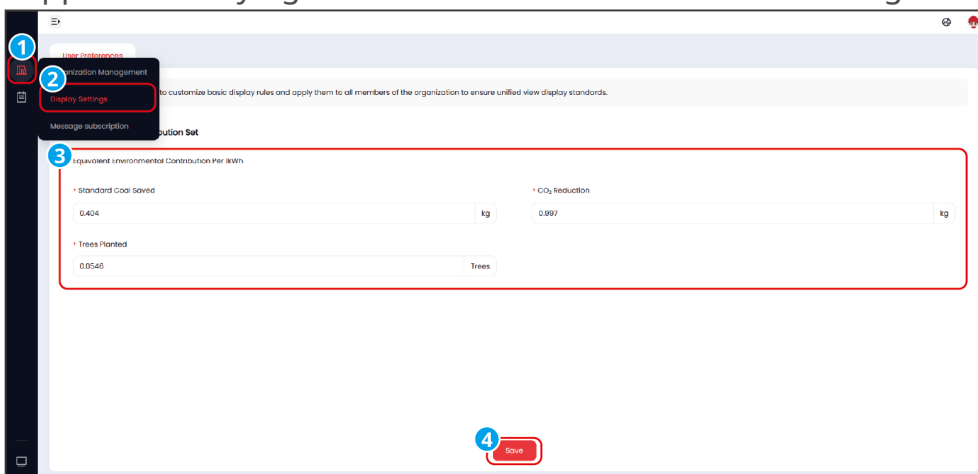
SEMS0121

9.2 Set Display Information

Operating steps:

Click "Backend Management" > "Organization Management" > "Display Settings".

Supports modifying the Environmental Contributions configuration.



SEMS0122

9.3 Set Subscription Information

Supports setting organization-level subscription information. The organization-level alert subscription plan has higher priority than the personal settings plan.

Report Subscription: Supports customizing report information and push methods according to actual needs. Supports selecting the organization type, report type, push node, push channel, push users, etc. for pushing reports.

Alert Subscription: Customize alert information and push methods according to actual needs. Supports selecting the power station, alert type, push time, push users, etc. for alert push.

Operating steps:

1. Click "Backend Management" > "Message Subscription" > "Add Plan".
2. Set the subscription plan according to actual needs.

The top screenshot shows the 'Message Subscription' management page. It includes a sidebar with 'Backend Management' and 'Message Subscription' highlighted. The main content area has a 'Report Message Subscription' tab. Below the tab is a table with columns: Plan Name, User Count, Plan Description, Plan Activation, Creator, Update Time, and Operation. A '+ New Add' button is in the top right corner. The bottom screenshot shows the 'New Add' form for creating a subscription plan. It includes fields for Plan Name, Plan Description, Station Subscription (0), Report Type (Station statistical report, Inverter statistical report), Push Channel (Message Center, Message Popup, E-Mail), Push Node (Weekly Report, Monthly Report, Annual Report), Time Zone (Asia/Shanghai (UTC+08:00)), and Language (English). There are 'Cancel' and 'Save' buttons at the bottom.

SEMS0124

9.4 Manage Logs

Operating steps:

Click "Backend Management" > "Log Management".

Organization Man...

Organization Management

Display Settings

Message subscription

Log Management

Monitoring Platform

Operator

Start Time → End Time

Operation Module

Operation Type

Q C

Operation Module	Operation Type	Operator	Operation Time	Operation
Login	Login		2026-01-26 14:29:08	
Login	Login		2026-01-26 06:38:06	
Login	Login		2026-01-26 09:29:25	
Login	Login		2026-01-26 09:13:10	
Login	Login		2026-01-23 11:18:40	
Login	Login		2026-01-22 18:28:03	
Logout	Logout		2026-01-22 13:55:42	
Login	Login		2026-01-22 13:54:46	
Logout	Logout		2026-01-22 13:54:30	
Login	Login		2026-01-22 13:54:02	

Total: 1973

1

2

3

4

5

...

198

10 / page

Go to

Page

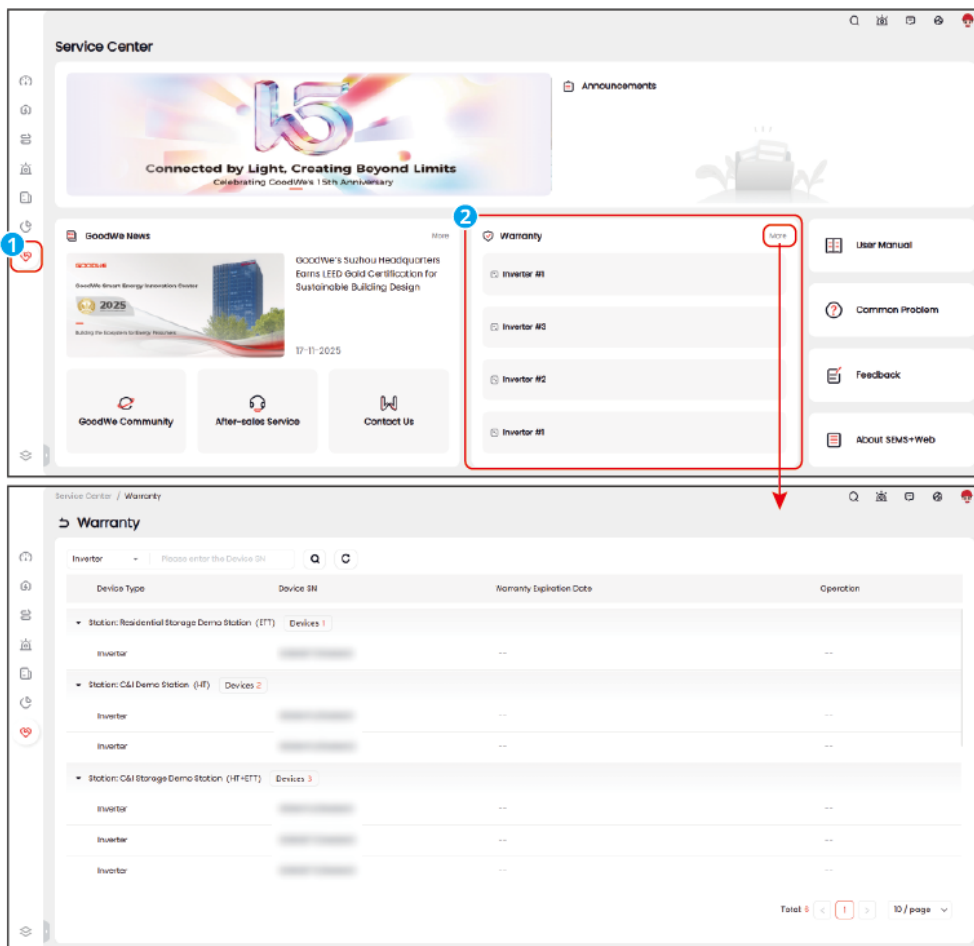
SEMS0125

10 FAQs

10.1 How to View Warranty Information

Operating steps:

1. Click "Service Center". In the "Warranty" module, you can view warranty information for some equipment.
2. Click "More" to enter the warranty details interface. Enter the device SN in the search box to quickly locate the power station or device to be queried.
3. Click  View warranty details, or  Click to download warranty information.

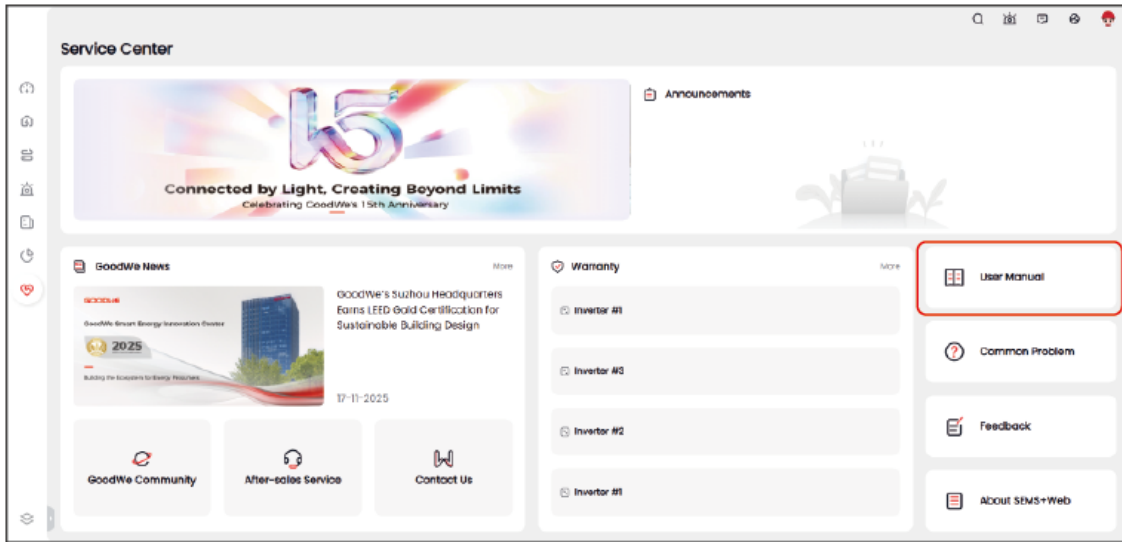


SEMS0126

10.2 How to View User Manual

Operating steps:

Click "Service Center" > "Operation Manual" to view the user manual.



11 Appendix

11.1 Safety Regulation Country

No.	Safety Regulation Name	No.	Safety Regulation Name
Europe			
1	IT-CEI 0-21	56	IE-LV-72A
2	IT-CEI 0-16	57	IE-ESB-C&D(< 110kV)
3	DE LV with PV	58	IE-EirGrid-110kV
4	DE LV without PV	59	PT-D
5	DE-MV	60	EE
6	ES-A	61	NO
7	ES-B	62	FI-A
8	ES-C	63	FI-B
9	ES-D	64	FI-C
10	ES-island	65	FI-D
11	BE	66	UA-A1
12	FR-LV	67	UA-A2
13	FR-island-50Hz	68	EN 50549-1
14	FR-island-60Hz	69	EN 50549-2
15	type A-PL_V.1.1	70	DK-West-B-MVHV
16	type B-LV-PL_V.1.1	71	DK-East-B-MVHV
17	type C-PL_V.1.1	72	DK-West-C-MVHV
18	type D-PL_V.1.1	73	DK-East-C-MVHV
19	NL-16/20A	74	DK-West-D-MVHV

No.	Safety Regulation Name	No.	Safety Regulation Name
20	NL-A	75	DK-East-D-MVHV
21	NL-B	76	FR-Reunion
22	NL-C	77	BE-LV (>30kVA)
23	NL-D	78	BE-HV
24	SE-A	79	CH-B
25	SE MV	80	NI-G99-A
26	SK-A	81	NI-G99-B
27	SK-B	82	NI-G99-C
28	SK-C	83	NI-G99-D
29	HU	84	IE-LV-170kVA
30	CH-A	85	IE-MV&HV-200kVA
31	CY	86	DE-HV
32	GR	87	FR-MV
33	DK-West-A	88	CZ-A1/A2-09
34	DK-East-A	89	DE-EHV
35	DK-West-B	90	IE-EirGrid-400KV
36	DK-East-B	91	IE-EirGrid-220KV
37	AT < 1kV	92	IE-EirGrid-66KV
38	AT > 1kV	93	IE-ESB-B
39	BG	94	IE-ESB-D($\geq$ 110kV)
40	Czech	95	type B-MV-PL_V.1.1
41	CZ-A1-09	96	GB-G99-A HV
42	CZ-A2-09	97	GB-G99-B LV

No.	Safety Regulation Name	No.	Safety Regulation Name
43	CZ-B1/B2-09	98	GB-G99-C LV
44	CZ-C	99	UA-B
45	CZ-D	100	UA-C
46	RO-A	101	UA-D
47	RO-B	102	UK-G98
48	RO-D	103	UK-G99-A LV
49	GB-G98	104	UK-G99-B LV
50	GB-G99-A LV	105	UK-G99-C LV
51	GB-G99-B HV	106	CZ-A1
52	GB-G99-C HV	107	UK-A-MV
53	GB-G99-D	108	UK-B-MV
54	NI-G98	109	UK-C-MV
55	IE-LV-16/25A	-	-
Global			
1	60Hz-Default	6	IEC 61727-60Hz
2	50Hz-Default	7	Warehouse
3	127Vac-60Hz-Default	8	IEC61727-480Vac-60Hz
4	127Vac-50Hz-Default	9	IEC61727-480Vac-50Hz
5	IEC 61727-50Hz		
Americas			
1	Argentina-220V-LV	38	LUMAPR-2024-220Vac-3P
2	US-208Vac	39	LUMAPR-2024-240Vac-3P
3	US-240Vac	40	Cayman
4	Mexico-220Vac	41	Brazil-220Vac

No.	Safety Regulation Name	No.	Safety Regulation Name
5	Mexico-440Vac	42	Brazil-208Vac
6	US-480Vac	43	Brazil-230Vac
7	US-208Vac-3P	44	Brazil-240Vac
8	US-220Vac-3P	45	Brazil-254Vac
9	US-240Vac-3P	46	Brazil-127Vac
10	US-CA-208Vac	47	Brazil-ONS
11	US-CA-240Vac	48	Barbados
12	US-CA-480Vac	49	Chile-BT
13	US-CA-208Vac-3P	50	Chile-MT-A
14	US-CA-220Vac-3P	51	Chile MT-B
15	US-CA-240Vac-3P	52	Colombia
16	US-HI-208Vac	53	Colombia<0.25MW-208Vac-1P
17	US-HI-240Vac	54	Colombia<0.25MW-120Vac-3P
18	US-HI-480Vac	55	IEEE 1547-208Vac
19	US-HI-208Vac-3P	56	IEEE 1547-220Vac
20	US-HI-220Vac-3P	57	IEEE 1547-240Vac
21	US-HI-240Vac-3P	58	IEEE 1547-230Vac
22	US-Kauai-208Vac	59	Colombia<0.25MW-127Vac-3P
23	US-Kauai-240Vac	60	Colombia>5MW
24	US-Kauai-480Vac	61	Mexico-127V
25	US-Kauai-208Vac-3P	62	Mexico-240V
26	US-Kauai-220Vac-3P	63	US-O&R-208Vac
27	US-Kauai-240Vac-3P	64	US-O&R-240Vac

No.	Safety Regulation Name	No.	Safety Regulation Name
28	US-ISO-NE-208Vac	65	US-O&R-480Vac
29	US-ISO-NE-240Vac	66	US-O&R-208Vac-3P
30	US-ISO-NE-480Vac	67	US-O&R-220Vac-3P
31	US-ISO-NE-208Vac-3P	68	US-O&R-240Vac-3P
32	US-ISO-NE-220Vac-3P	69	Brazil-277Vac
33	US-ISO-NE-240Vac-3P	70	Chile-BT ≤9MW
34	LUMAPR-2024-208Vac	71	Chile-MT ≤9MW
35	LUMAPR-2024-240Vac	72	Chile > 9MW
36	LUMAPR-2024-480Vac	73	Mexico-277Vac
37	LUMAPR-2024-208Vac-3P		
Oceania			
1	Australia-A	4	Newzealand
2	Australia-B	5	Newzealand:2015
3	Australia-C	6	NZ-GreenGrid
Asia			
1	China A	33	Israel-MV
2	China B	34	Israel-HV
3	China Higher Voltage	35	Vietnam
4	China Highest Voltage	36	Malaysia-LV
5	China Power Station	37	Malaysia-MV
6	China Shandong	38	DEWA-LV
7	China Hebei	39	DEWA-MV
8	China PCS	40	Saudi Arabia-220V-LV
9	Taiwan	41	JP-690Vac-50Hz

No.	Safety Regulation Name	No.	Safety Regulation Name
10	Hong Kong	42	JP-690Vac-60Hz
11	China Northeast	43	Srilanka-MV/HV
12	Thailand-MEA	44	IEC 61727-127Vac-50Hz
13	Thailand-PEA	45	IEC 61727-127Vac-60Hz
14	Mauritius	46	JP-550Vac-50Hz
15	Korea	47	JP-550Vac-60Hz
16	India	48	India-Higher
17	India-CEA	49	JP-220Vac-50Hz
18	Pakistan	50	JP-220Vac-60Hz
19	Philippines	51	Saudi Arabia-127V-LV
20	Philippines-127Vac	52	Srilanka-LV >1MW
21	JP-200Vac-50Hz	53	China-YN
22	JP-200Vac-60Hz	54	GB/T 29319-LV
23	JP-440Vac-50Hz	55	GB/T 29319-MV
24	JP-440Vac-60Hz	56	Philippines-277Vac
25	JP-420Vac-50Hz	57	JP-360Vac-50Hz
26	JP-420Vac-60Hz	58	JP-360Vac-60Hz
27	JP-480Vac-50Hz	59	JP-320Vac-50Hz
28	JP-480Vac-60Hz	60	JP-320Vac-60Hz
29	Srilanka-LV<1MW	61	JP-340Vac-50Hz
30	Singapore	62	JP-340Vac-60Hz
31	Israel-OG	63	JP-380Vac-50Hz
32	Israel-LV	64	JP-380Vac-60Hz

No.	Safety Regulation Name	No.	Safety Regulation Name
Africa			
1	Mauritius	5	Ghana-LV
2	South Africa-LV	6	Ghana-HV
3	South Africa-B-MV	7	South Africa-A3-LV
4	South Africa-C-MV	8	Nigeria

11.2 Inverter Parameters

Communication parameters.

Parameter name.	Description
RS485 Settings	Set the master communication address of the inverter. For a single inverter, set the communication address according to the actual situation; for multiple connected inverters, each inverter must have a different address, and no inverter can set its communication address to 247.
PLC	Only applicable to devices communicating via PLC. Set according to the box-type transformer to which the inverter is actually connected.

Device Start/Stop Parameters

Parameter name.	Description
Start	Control device start, stop, and restart.
Stop	
Restart	

Environmental Control Parameters

Parameter name.	Description
Fan Control	
Fan reverses to remove dust	When enabled, the fan will periodically reverse automatically to remove dust.
External fan turn-on temperature setting value	When the device temperature reaches the set value, the external fan starts running.
Fan Detection	Detects whether the fan can operate normally.
Silent Mode	
Silent Mode	• Enabling Silent Mode can reduce equipment noise. • Before enabling Silent Mode, ensure that the device is connected to a stable and reliable power grid; otherwise, it will not take effect. • After enabling Silent Mode, if the load power consumption in the system is too high and Energy Generation cannot meet the demand, the system may automatically purchase electricity from the grid to ensure load operation. • During Silent Mode, some PV Energy Generation may be lost. • Supports setting the Silent Mode time period according to actual requirements.

AC Side Settings Parameters

Parameter name.	Description
AC Port Connection Settings	Depending on the inverter port characteristics, it supports connection of loads, generators, microgrid devices, etc. For details, please refer to 11.2.4.Multiplexed Port Parameters(Page 100) .

Parameter name.	Description
Backup Function Settings	• Backup: After enabling, when the power grid fails, the load connected to the inverter BACK-UP port can be powered by the battery, ensuring uninterrupted power supply to the load. • The following detection modes are supported: ◦ UPS Mode - Full-Wave Detection: Detects whether the grid voltage is too high or too low. ◦ UPS Mode - Half-Wave Detection: Detects whether the grid voltage is too low. ◦ EPS Mode - Low Voltage Ride-Through Supported: Disables the grid voltage detection function. • Off-grid First Cold Start: Takes effect only once. After enabling this function, the battery or PV can be used to output backup power in off-grid mode. • Off-grid Cold Start Holding: Takes effect multiple times. After enabling this function, the battery or PV can be used to output backup power in off-grid mode. • Clear Overload Fault: When the power of the load connected to the inverter BACK-UP port exceeds the rated load power, the inverter will restart and check the load power again. If not handled in time, the inverter will restart multiple times and perform load detection, with the interval between restarts continuously increasing. After the BACK-UP port load power drops within the Rated Power range, you can click this switch to clear the inverter restart interval, and the inverter will restart immediately.

Parameter name.	Description
Parallel Management	- When the inverter achieves parallel operation via RS485, set the Parallel Management parameters. - Manually set the inverter master or slave attribute, and set the slave address and other information. - Through self-organizing networking, automatically form a parallel system or a three-phase system from single-phase units. - When inverters achieve parallel operation via the Ezlink3000 smart communication stick, the number of parallel inverters in the system needs to be set.
Type of Electrical Supply System	Select single-phase, split-phase, or two-phase grid according to the actual Type of Electrical Supply System supported by the inverter.
Output Method	When the connected grid is a three-phase grid, select three-phase three-wire or three-phase four-wire according to the actual grid type to which the inverter is connected.
Three-phase unbalanced output	When a three-phase inverter is connected to unbalanced loads, such as L1, L2, L3 connected to loads of different power, the three-phase unbalanced output function must be enabled.
Unbalanced phase voltage function	After enabling, the inverter will perform power Derating or power distribution based on the voltage values of each phase grid, to maximize power utilization.

PV setting parameters

Parameter name.	Description
PV Access Mode	For some models, the PV string connection mode on the inverter MPPT port can be manually set to avoid incorrect identification of the string connection mode. Supported: • Independent access: External PV strings are connected in one-to-one correspondence with the PV input ports on the inverter side. • Partial parallel access: When one PV string is connected to multiple MPPT ports on the inverter side, there are also other PV strings connected to other MPPT ports on the inverter side. • Parallel access: When external PV strings are connected to the PV input ports on the inverter side, multiple PV strings are first connected through Y terminals, and then divided into multiple branches to connect to multiple PV input ports.
PID Settings	• During operation of PV panels, due to the potential difference between the output electrode and the grounded frame of the panel, the panel's power generation Efficiency may degrade over time, namely the Potential Induced Degradation (PID) effect. • The product's PID function raises the voltage difference between the PV panel and the frame to create a positive voltage difference (called positive voltage boosting), thus achieving the effect of PID suppression. It is applicable to P-type panels and N-type panels that require positive voltage boosting to suppress the PID effect. For N-type panels that require reducing negative voltage to suppress the PID effect, it is recommended to disable this function. Please consult the panel supplier to determine whether N-type modules belong to the type that requires positive voltage boosting for PID suppression.

Parameter name.	Description
Shadow scanning function	When PV panels are severely shaded, enabling the shadow scanning function can optimize the inverter's power generation Efficiency.

Battery settings

Parameter name.	Description
Battery activation	If you purchase an unactivated battery, you need to enter the activation code to activate the battery function.
BAT Connection Configuration	Select the battery Access Mode according to the actual battery connection status.

Protection Parameters

Parameter name.	Description
Electrical Protection	
Surge Protection Alarm	After enabling the Surge Protection Alarm function, an alarm will be raised when the surge protection module becomes abnormal.

Parameter name.	Description
AFCI Detection	• After enabling AFCI Detection, you can monitor whether there is an arc hazard in the device. • Click "Arc Failure Self-Check" to start the self-check of the Arc Detection module to confirm whether the status is normal. Then view the result through "AFCI Detection Status". • If the inverter triggers an Arc Failure Alarm less than 5 times within 24 hours, the alarm can be cleared automatically. After the 5th Arc Failure Alarm, the inverter stops for Protection. Click "Clear Arc Alarm" to clear the fault, and then the inverter can work normally.
Backup N-PE Relay Switch	According to the grid standard requirements of certain countries or regions, it is necessary to ensure that the internal relay of the BACK-UP port remains closed during off-grid operation, thereby connecting the N and PE lines.
DC Tripping Detection	After enabling this function, in the event of a machine fault, the inverter DC Switch can automatically trip and disconnect.
On-Grid Point Rated Current Protection	To prevent the incoming household circuit breaker from being damaged or tripped due to excessive current when the inverter purchases electricity from or exports energy to the grid, set the Rated Current at the grid connection point to limit the input and output current values.
Grid/On-Grid Protection	
Anti-islanding Protection	Enable or disable the Anti-islanding Protection function as required.
NS Protection	Enable or disable the NS Protection Function in accordance with the standard requirements of certain countries or regions.
Grid Code	

Parameter name.	Description
Grid Standard Code	Select the grid code based on the country or region where the inverter is installed.
Grid Code Parameter Settings	Safety regulation parameters must be set according to the requirements of the grid company. If changes are required, the consent of the grid company must be obtained.

General Setting Parameters

Parameter name.	Description
Device Self-test	Start the device status self-test.
Restore Factory Settings	Restore some functions to the factory state.

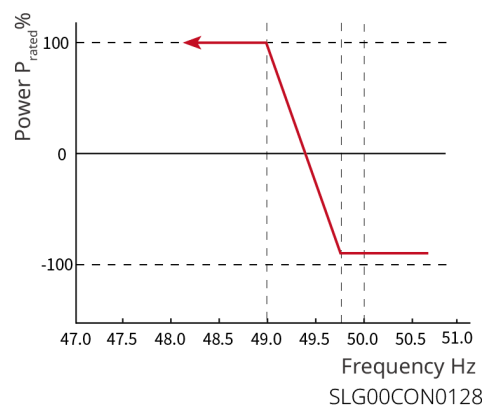
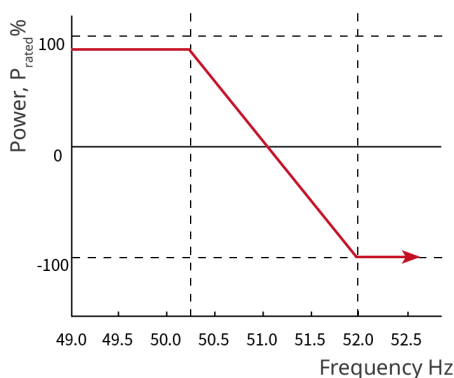
11.2.1 Customize Safety Regulation Parameters

NOTE

Safety regulation parameters must be set according to the requirements of the grid company. If changes are required, the consent of the grid company must be obtained.

Active Power Mode

P(F) curve



P(U) curve

Parameter name.	Description
Output Active Power Setting	Set the output power limit value of the inverter.
Power change gradient	Set the change slope when the active output power increases or decreases.
Over-frequency derating	
P(F) curve	Enable this function when the P(F) curve needs to be configured according to the grid code requirements of certain countries or regions.
Over-frequency derating mode	Set the over-frequency derating mode according to actual requirements. • Slope mode: Adjust power based on the over-frequency point and the derating slope. • Stop mode: Adjust power based on the over-frequency start point and over-frequency end point.
Over-frequency start point	When the grid frequency is too high, the inverter output active power decreases. When the grid frequency exceeds this value, the inverter output power starts to decrease.
Buy/Export Energy switching frequency	When the set frequency value is reached, the system switches from Export Energy to Buy Energy.
Overfrequency Endpoint	When the grid frequency is too high, the inverter output active power decreases. When the grid frequency is greater than this value, the inverter output power does not continue to decrease.
Over-frequency power slope reference power	Adjust the inverter output active power based on Rated Power, current power, Apparent Power, or maximum active power.
Over-frequency power slope	When the grid frequency is higher than the over-frequency point, the inverter output power is reduced according to the slope.

Parameter name.	Description
Silent Time	The delayed response time for the inverter output power change when the grid frequency is higher than the over-frequency point.
Hysteresis function enable	Enable the hysteresis function.
Frequency hysteresis point	During over-frequency derating, if the frequency decreases, the power is output at the lowest value of the derated power until the frequency drops below the hysteresis point, and then the power recovers.
Hysteresis waiting time	For over-frequency derating when the frequency decreases, when the frequency drops below the hysteresis point, the waiting time for power recovery, i.e., the power recovers only after waiting for a certain period.
Hysteresis power recovery slope reference power	For over-frequency derating when the frequency decreases, when the frequency drops below the hysteresis point, the reference for power recovery, i.e., power recovery is carried out at the rate of change of recovery slope * reference power. Supported: P _n Rated Power, P _s Apparent Power, P _m current power, P _{max} Max. Power, power difference (ΔP).
Hysteresis power recovery slope	For over-frequency derating, when the frequency decreases and falls below the hysteresis point, the power change slope during power recovery.
Under-frequency loading	
P(F) curve	Enable this function when the P(F) curve needs to be configured according to the grid code requirements of certain countries or regions.

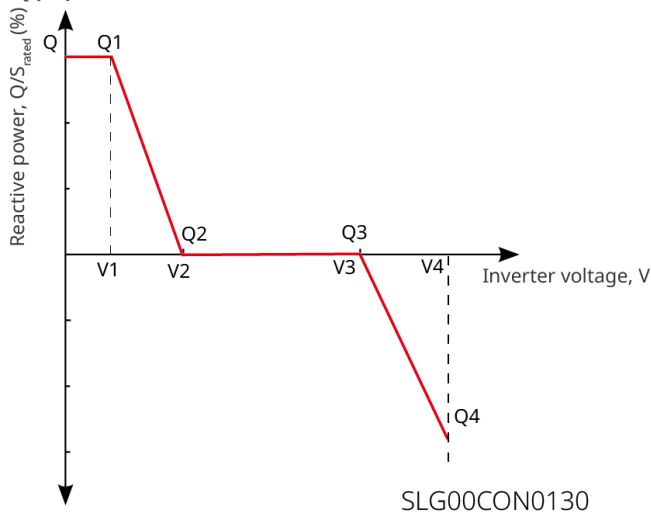
Parameter name.	Description
Under-frequency loading mode	Set the under-frequency loading mode according to actual requirements. • Slope mode: adjusts power based on the under-frequency point and loading slope. • Stop mode: adjusts power based on the under-frequency start point and under-frequency end point.
Under-frequency start point	When the grid frequency is too low, the inverter output active power increases. When the grid frequency is lower than this value, the inverter output power starts to increase.
Buy/Export Energy switching frequency	When the set frequency value is reached, the system switches from Export Energy to Buy Energy.
Under-frequency end point	When the grid frequency is too low, the inverter output active power increases. When the grid frequency is lower than this value, the inverter output power will no longer increase.
Over-frequency power slope reference power	Adjust the inverter output active power based on Rated Power, current power, Apparent Power, or maximum active power.
Under-frequency power slope	When the grid frequency is too low, the inverter output active power increases. The slope at which the inverter output power rises.
Silent Time	When the grid frequency is below the under-frequency point, the delay response time of the inverter output power change.
Hysteresis function enable	Enable the hysteresis function.
Frequency hysteresis point	During under-frequency loading, if the frequency increases, the power is output at the minimum point of the loading power until the frequency rises above the hysteresis point, and then the power recovers.

Parameter name.	Description
Hysteresis waiting time	For under-frequency loading, when the frequency increases and rises above the hysteresis point, this is the waiting time for power recovery; i.e., power recovery only starts after a certain delay.
Hysteresis power recovery slope reference power	For under-frequency loading, when the frequency increases and rises above the hysteresis point, this is the reference for power recovery; i.e., power recovery is performed according to the rate of change of recovery slope $\times$ reference power. Supports: Pn Rated Power, Ps Apparent Power, Pm Current Power, Pmax Max. Power, power difference (ΔP).
Hysteresis power recovery slope	For under-frequency loading, when the frequency increases and rises above the hysteresis point, this is the power change slope during power recovery.
P(U) curve enable	Enable this function when the P(U) curve needs to be configured according to the grid code requirements of certain countries or regions.
Vn voltage	The ratio of the actual voltage at point Vn to the nominal voltage, n=1, 2, 3, 4. For example, when set to 90, it indicates: $V/V_{rated}\%=90\%$.
Vn active power	Ratio of active power output to Apparent Power of the inverter at point Vn, n=1, 2, 3, 4. For example, when set to 48.5, it means: $P/P_{rated}\%=48.5\%$.
Output response mode	Set the active power output response mode. Supported: • First-order low-pass filtering: output adjustment is realized according to the first-order low-pass curve within the response time constant. • Slope dispatch: output adjustment is realized according to the set power change slope.
Power change gradient	When the output response mode is set to slope dispatch, Active Dispatch is realized according to the power change gradient.

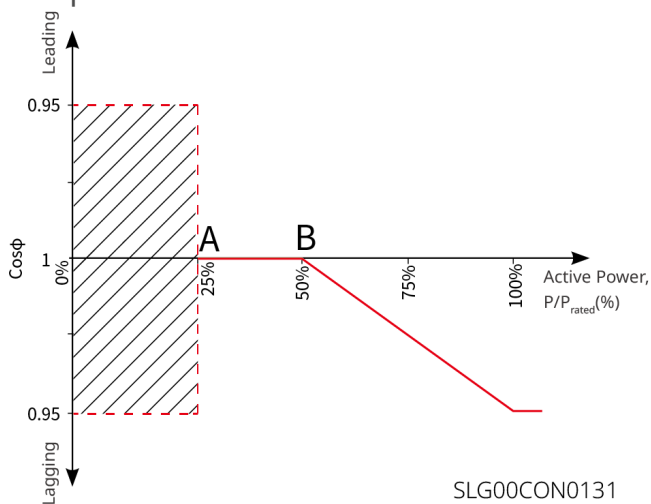
Parameter name.	Description
First-Order Low-Pass Filter Time Parameter	When the output response mode is set to first-order low-pass filtering, the time constant for active power to change according to the first-order low-pass filter curve.
Overload Function Switch	When enabled, the maximum active power output is 1.1 times the Rated Power; otherwise, the maximum active power output is consistent with the Rated Power value.

Reactive Power Mode

Q(U) Curve



Cosφ Curve



Parameter name.	Description
Fixed PF	
Fixed PF	According to the grid standard requirements of some countries or regions, enable this function when a fixed PF value is required. After the parameter settings are successful, the Power Factor remains unchanged during inverter operation.
Under-excitation	According to the grid standard requirements of the country or region and actual usage needs, set the Power Factor to a positive or negative number.
Over-excitation	
Power Factor	Set the Power Factor according to actual needs, ranging from -1 to -0.8 and +0.8 to +1.
Fixed Q	
Fixed Q	According to the grid standard requirements of some countries or regions, enable this function when Fixed Reactive Power is required.
Over-excitation/Under-excitation	According to the grid standard requirements of the country or region and actual usage needs, set the reactive power as inductive reactive power or capacitive reactive power.
Reactive Power	Set the ratio of reactive power to Apparent Power.
Q(U) Curve	
Q(U) Curve	According to the grid standard requirements of some countries or regions, enable this function when the Q(U) curve needs to be set.
Mode Selection	Set the Q(U) curve mode, supporting basic mode and slope mode.
Vn voltage	The ratio of the actual voltage at point Vn to the Nominal Voltage, n=1, 2, 3, 4.
	For example, when set to 90, it means: $V/V_{rated}\% = 90\%$.

Parameter name.	Description
Vn Reactive Power	The ratio of the reactive power output by the inverter at point Vn to the Apparent Power, n=1, 2, 3, 4. For example, when set to 48.5, it means: Q/Srated%=48.5%.
Voltage Dead Band Width	When the Q(U) curve mode is set to slope mode, set the voltage dead band. Within the dead band range, there is no requirement for reactive power output.
Over-excitation Slope	When the Q(U) curve mode is set to slope mode, set the power change slope to a positive or negative number.
Under-excitation slope	
Vn Reactive Power	The ratio of the reactive power output by the inverter at point Vn to the Apparent Power, n=1, 2, 3, 4. For example, when set to 48.5, it means: Q/Srated%=48.5%.
Q(U) curve response time constant	The power must reach 95% within 3 response time constants according to a first-order low-pass curve.
Extended function enable	Enable the extended function and set the corresponding parameters.
Enter curve power	When the ratio of the inverter output reactive power to Rated Power is between the enter curve power and the exit curve power, the Q(U) curve requirements are met.
Exit curve power	
cosφ(P) curve	
cosφ(P) curve	Select this function when it is necessary to set the Cosφ curve according to the grid standard requirements of certain countries or regions.
Mode Selection	Set the cosφ(P) curve mode, supporting basic mode and slope mode.
N-point power	Inverter output active power as a percentage of Rated Power at point N. N=A, B, C, D, E.

Parameter name.	Description
cos φ value at point N	Power Factor at point N. N=A, B, C, D, E.
Over-excitation Slope	When the cosφ(P) curve mode is set to Slope mode, set the power change slope to a positive or negative number.
Under-excitation slope	
Power at point n	Inverter output active power as a percentage of Rated Power at point N. N=A, B, C.
cos φ value at point n	Power Factor at point N. N=A, B, C.
cosφ(P) curve response time constant	The power must reach 95% within 3 response time constants according to a first-order low-pass curve.
Extended function enable	Enable the extended function and set the corresponding parameters.
Enter Curve Voltage	When the grid voltage is between the Enter Curve Voltage and the Exit Curve Voltage, the voltage meets the cosφ curve requirements.
Exit Curve Voltage	
Q(P) curve	
Q(P) Curve Enable	According to the grid standard requirements of some countries or regions, enable this function when the Q(P) curve needs to be set.
Mode Selection	Set the Q(P) curve mode, supporting Basic mode and Slope mode.
Power at point Pn	Ratio of reactive power at point Pn to Rated Power, n=1, 2, 3, 4, 5, 6. For example: when set to 90, it indicates: Q/Prated%=90%.

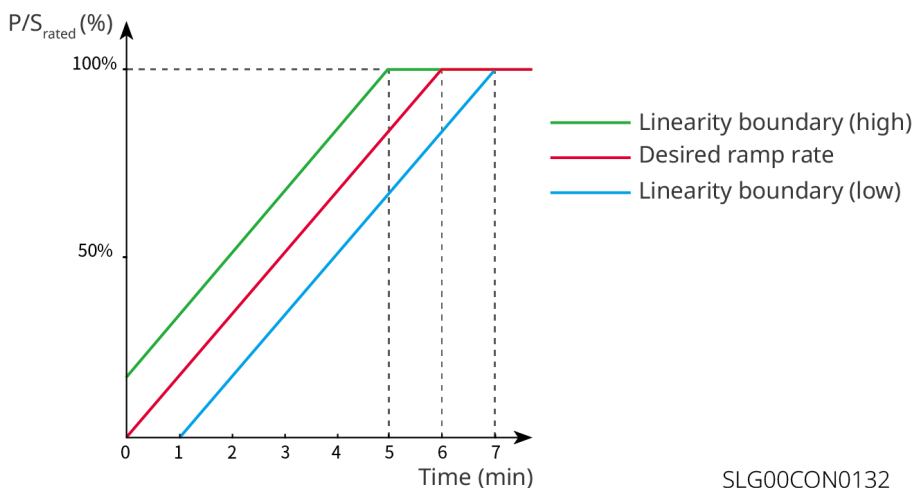
Parameter name.	Description
Reactive power at point Pn	Ratio of active power at point Pn to Rated Power, n=1, 2, 3, 4, 5, 6. For example: when set to 90, it indicates: $P/P_{rated}\%=90\%$.
Over-excitation Slope	When the Q(P) curve mode is set to slope mode, set the power change slope to a positive or negative number.
Under-excitation slope	
Power at point Pn	Ratio of reactive power at point Pn to Rated Power, n=1, 2, 3. For example: when set to 90, it indicates: $Q/P_{rated}\%=90\%$.
Reactive power at point Pn	Ratio of active power at point Pn to Rated Power, n=1, 2, 3. For example: when set to 90, it indicates: $P/P_{rated}\%=90\%$.
Response time constant	The power must reach 95% within 3 response time constants according to a first-order low-pass curve.

Grid Protection Parameters

Parameter name.	Description
Overvoltage trigger n-step value	Set the grid overvoltage trigger n-step Protection point, n=1, 2, 3, 4.
Overvoltage trigger n-step trip time	Set the grid over-voltage trigger stage n trip time, n=1, 2, 3, 4.
Under-voltage trigger stage n value	Set the grid under-voltage trigger stage n Protection point, n=1, 2, 3, 4.
Under-voltage trigger stage n trip time	Set the grid under-voltage trigger stage n trip time, n=1, 2, 3, 4.

Parameter name.	Description
10min Over-voltage Trigger Value	Set the 10min Over-voltage Trigger Value.
10min Over-voltage Trip Time	Set the 10min Over-voltage Trip time.
Over-frequency trigger stage n value	Set the grid over-frequency trigger stage n Protection point, n=1, 2, 3, 4.
Over-frequency trigger stage n trip time	Set the grid over-frequency trigger stage n trip time, n=1, 2, 3, 4.
Under-frequency trigger stage n value	Set the grid under-frequency trigger stage n Protection point, n=1, 2, 3, 4.
Under-frequency trigger stage n trip time	Set the grid under-frequency trigger stage n trip time, n=1, 2, 3, 4.

Grid Connection Parameters



SLG00CON0132

Parameter name.	Description
Startup On-Grid	

Parameter name.	Description
Connection Voltage Upper Limit	When the inverter first connects to the grid, if the grid voltage is higher than this value, the inverter will not be able to connect to the grid.
Connection Voltage Lower Limit	When the inverter first connects to the grid, if the grid voltage is lower than this value, the inverter will not be able to connect to the grid.
Connection Frequency Upper Limit	When the inverter first connects to the grid, if the grid frequency is higher than this value, the inverter will not be able to connect to the grid.
Connection Frequency Lower Limit	When the inverter first connects to the grid, if the grid frequency is lower than this value, the inverter will not be able to connect to the grid.
Grid Connection Waiting Time	When the inverter first connects to the grid, the waiting time before connecting to the grid after the grid voltage and frequency meet the grid connection requirements.
Soft Ramp Up Slope Enable	Enable the start-up ramp function.
Soft Ramp Up Slope	According to the standard requirements of certain countries or regions, the percentage of power increment that can be output per minute when the inverter is powered on for the first time.
Fault Reconnection	
Connection Voltage Upper Limit	When the inverter reconnects to the grid after a fault, if the grid voltage is higher than this value, the inverter will be unable to connect to the grid.
Connection Voltage Lower Limit	When the inverter reconnects to the grid after a fault, if the grid voltage is lower than this value, the inverter will be unable to connect to the grid.
Connection Frequency Upper Limit	When the inverter reconnects to the grid after a fault, if the grid frequency is higher than this value, the inverter will be unable to connect to the grid.

Parameter name.	Description
Connection Frequency Lower Limit	When the inverter reconnects to the grid after a fault, if the grid frequency is lower than this value, the inverter will be unable to connect to the grid.
Grid Connection Waiting Time	When the inverter reconnects to the grid after a fault, the waiting time to connect to the grid after the grid voltage and frequency meet the grid connection requirements.
Reconnection load ramp enable	Enable the start-up ramp function.
Reconnection load ramp	According to the standard requirements of certain countries or regions, the percentage of power increment that can be output per minute when the inverter is not connected to the grid for the first time. For example: when set to 10, it means the reconnection load ramp is: 10%P/Rated/min.

Voltage fault ride-through parameters

Parameter name.	Description
Low voltage ride-through	
UVn point voltage	During low voltage ride-through, the ratio of the ride-through voltage at the LVRT characteristic point to Nominal Voltage. n=1, 2, 3, 4, 5, 6, 7.
UVn point time	During low voltage ride-through, the ride-through time at the LVRT characteristic points. n=1, 2, 3, 4, 5, 6, 7.
LVRT entry threshold	When the grid voltage is between the LVRT entry threshold and the LVRT exit threshold, the inverter does not immediately perform a Grid Power Outage.
LVRT exit threshold	
Slope K1	During low voltage ride-through, the K value coefficient for reactive power support.
Zero Current Mode enable	After enabling, during low voltage ride-through, the system outputs zero current.

Parameter name.	Description
Entry threshold	Threshold for entering Zero Current Mode.
High voltage ride-through	
OVn point voltage	During high voltage ride-through, the ratio of the ride-through voltage at the HVRT characteristic points to the Nominal Voltage. n=1, 2, 3, 4, 5, 6, 7.
OVn point time	During high voltage ride-through, the ride-through time at the HVRT characteristic points. n=1, 2, 3, 4, 5, 6, 7.
HVRT entry threshold	When the grid voltage is between the HVRT entry threshold and the HVRT exit threshold, the inverter does not immediately perform a Grid Power Outage.
HVRT exit threshold	
Slope K2	During high voltage ride-through, the K value coefficient for reactive power support.
Zero Current Mode enable	During high voltage ride-through, the system outputs zero current.
Entry threshold	Threshold for entering Zero Current Mode.

Frequency fault ride-through parameters

Parameter name.	Description
Frequency ride-through enable	Enable the frequency ride-through function.
UFn point frequency	Set the frequency at under-frequency point n. n=1, 2, 3.
UFn point time	Set the under-frequency time at under-frequency point n. n=1, 2, 3.
OFn point frequency	Set the frequency at over-frequency point n. n=1, 2, 3.
OFn point time	Set the over-frequency time for the n-th over-frequency point. n=1, 2, 3.

11.2.2 On-Grid Power Dispatch Parameters

Grid-Connected Power Limit (General)

Parameter name.	Description
Grid-Connected Power Limit	According to the grid standard requirements of certain countries or regions, turn on this function when output power limit is required.
Power Limit Value	Set according to the actual Max. Power that can be input to the grid.

Grid-Connected Power Limit (Australia)

Parameter name.	Description
Software Power Limit	According to the grid standard requirements of certain countries or regions, turn on this function when output power limit is required.
Power Limit Value	• Set according to the actual Max. Power that can be input to the grid. • Supports setting a fixed power value or percentage. The set percentage is the percentage of the limited power relative to the inverter Rated Power. • After setting a fixed value, the percentage changes automatically; after setting a percentage, the fixed value changes automatically.
Hardware Power Limit	When this function is enabled, the inverter will automatically disconnect from the grid when the power fed into the grid exceeds the limit value.

Grid Feed-in Power Limit (UK)

Parameter name.	Description
Grid-Connected Power Limit	According to the grid standard requirements of certain countries or regions, turn on this function when output power limit is required.
Mode Selection	• Some models require selecting a current limiting mode. Supported: phase current, total current. • When set to phase current, the current of each phase is limited; when set to total current, the total current of the three phases is limited.
Current Limit	Set according to the actual maximum current that can be fed into the grid.

Grid Feed-in Power Limit (Brazil)

In regions such as Brazil, users are allowed to set different power limits in different time periods to meet grid requirements.

Please download the template according to the on-screen prompts and configure the power limit information for different time periods. After filling in the template, upload it to the app to complete time-of-use power limiting.

Power Dispatch

Parameter name.	Description
Active Power Dispatch	
Active Dispatch Mode	According to the requirements of the grid company in the country/region where the inverter is located, the active power is controlled according to the selected dispatch mode. Supported: • Disabled: Do not enable Active Dispatch. • Active Power (W): Dispatch according to a fixed value. • Active Power (%Pn): Dispatching is performed according to the percentage of active power to Rated Power.

Parameter name.	Description
Reactive Power Dispatch	
Reactive Dispatch Mode	According to the requirements of the power grid company in the country/region where the inverter is located, the reactive power is controlled according to the selected dispatch mode. Supported: • Disabled: Reactive power dispatch is not enabled. • Reactive Power (Var): Dispatch according to a fixed value. • Reactive Power (%Pn): Dispatch according to the percentage of reactive power to Rated Power. • PF Compensation.
Night Reactive Power	
Night Reactive Power Enable	Enable the nighttime reactive power function.
Night Reactive Dispatch Mode	According to the requirements of the grid company in the country/region where the inverter is located, the nighttime reactive power is controlled according to the selected dispatch mode. Supported: • Disabled: Reactive power dispatch is not enabled. • Night Reactive Dispatch (Var): Dispatch according to a fixed value. • Night Reactive Dispatch (%Pn): Dispatch according to the percentage of reactive power to Rated Power.

Power Dispatch Response Parameters

Parameter name.	Description
Active Power Dispatch Response	Achieve the active power dispatch value through the dispatch response mode, supporting: • First-order low-pass filtering: within the response time constant, Active Dispatch is implemented according to the first-order low-pass curve, and the time constant is set for the active power to change according to the first-order low-pass filtering curve. • Slope mode: Active Dispatch is implemented according to the power change slope, and the active power dispatch change slope is set.
Reactive Power Dispatch Response	Achieve the reactive power dispatch value through the dispatch response mode, supporting: • First-order low-pass filtering: within the response time constant, Reactive Dispatch is implemented according to the first-order low-pass curve, and the time constant is set for the reactive power to change according to the first-order low-pass filtering curve. • Slope mode: Reactive Dispatch is implemented according to the power change slope, and the reactive power dispatch change slope is set.

11.2.3 Grid Remote Dispatch Parameters

According to the grid standard requirements of certain countries or regions, it is necessary to connect third-party dispatch equipment to realize the remote dispatch function of the photovoltaic system.

- Remote Shutdown: The remote shutdown function is implemented through the signal control port. When an unexpected event occurs, the device can be controlled to stop working.
- DRED (Demand Response Enabling Device): Through DRED The signal control port controls the device to meet the requirements of Australia and other regions. DRED Certification requirements.

- RCR (Ripple Control Receiver): ThroughRCRThe signal control port controls the equipment to meet grid dispatch requirements in regions such as Germany.
- EnWG (Energy Industry Act) 14a:All controllable loads need to accept emergency dimming from the grid. The grid operator can temporarily reduce the maximum grid purchase power of controllable loads to 4.2kW.

11.2.4 Multiplexed Port Parameters

Load Control Parameters

When the inverter supports the load control function, the load can be controlled via the App.

For the ET40-50kW series inverters, the load control function is supported only when the inverter is used with an STS. The inverter supports load control on the GENERATOR port or the BACKUP LOAD port.

- Dry Contact Mode: When the switch state is set to ON, power supply to the load starts; when the switch state is set to OFF, power supply to the load stops. Please set the switch state to ON or OFF according to actual needs.
- Time Mode: In Time Mode, power to the load will be automatically turned on or off within the set time period. You can select Standard Mode or Smart Mode.

Parameter name.	Description
Standard Mode	Power will be supplied to the load during the set time period.
Smart Mode	Within the set time period, when the surplus energy generated by PV exceeds the preset load rated power, power supply to the load will start.
On Time	Time Mode will be enabled during the time period between the On Time and the Off Time.
Off Time	
Repeat	Set the repeat frequency.
Minimum Load Operating Time	Only applicable to Smart Mode. The minimum run time after the load is turned on to prevent frequent switching due to energy fluctuations.
Load Rated Power	Only applicable to Smart Mode. When the surplus energy generated by PV exceeds this load's Rated Power, it starts supplying power to the load.

- **SOC Mode:** The inverter has a built-in relay dry contact control port (for ET40-50kW series inverters, it is the STS built-in control port), which can control whether to supply power to the load. In off-grid mode, if overload on the BACK-UP port or GENERATOR port is detected, or the battery SOC Protection Function is triggered, the power supply to loads connected to the port can be stopped.

Diesel Generator Control Parameters

When the inverter supports the Diesel Generator Control function, the generator can be controlled through the App.

For ET40-50kW series inverters, the generator can be connected and controlled only when the inverter is used with an STS.

For ET50-100kW series inverters, the generator can be connected and controlled only when the inverter is used with an STS.

- **Generator Not Connected:** When no generator is connected to the energy storage system, select Generator Not Connected.
- **Manual generator control (dry contact connection not supported):** The generator start/stop must be controlled manually; the inverter cannot control the generator start/stop.
- **Automatic Diesel Generator Control (supports dry contact connection):** When the generator has a dry contact control port and is connected to the inverter, the inverter's Diesel Generator Control Mode should be set to Switch Control Mode or Automatic Control Mode in the App.
 - **Switch Control Mode:** When the switch is turned on, the generator operates; after operating for the set running time, it can automatically stop operating.
 - **Automatic Control Mode:** During the set prohibited working time period, the generator is prohibited from working; during the Running Time Period, the generator operates.

Parameter name.	Description
Dry Node Control Method	Switch Control Mode / Automatic Control Mode.
Switch Control Mode	
Diesel Generator Dry Node Switch	Only applicable to Switch Control Mode.

Parameter name.	Description
Running Time	The continuous running time of the generator; the generator stops running when the time is reached.
Automatic Control Mode	
Prohibited Running Time	Set the prohibited Running Time Period of the generator.
Running Time	The generator continuous running time after startup; the generator stops running when the set time is reached. If the generator running time includes a prohibited running time, the generator stops during this period; after the prohibited running time, the generator resumes running and timing.

Parameter name.	Description
Generator Information Settings	
Rated Power	Set the Rated Power for generator operation.
Running Time	Set the generator's continuous running time. The generator is shut down after the continuous running time ends.
Upper Voltage Limit	Set the Voltage Range for generator operation.
Lower Voltage Limit	
Upper Frequency Limit	Set the Frequency Range for generator operation.
Lower Frequency Limit	
Preheating Time	Set the no-load preheating time of the generator.
Diesel Generator Battery Charging Setting	
Switch	Select whether to use the generator to charge the battery.
Max. Charging Power (‰)	The charging power when the generator charges the battery.

Parameter name.	Description
Start Charging SOC	When connected to a lithium battery, set the SOC threshold for starting the generator. When Battery SOC Low is below the set value, start the generator to charge the battery.
Stop Charging SOC	When connected to a lithium battery, set the SOC threshold for turning off the generator. When the battery SOC is higher than the set value, turn off the generator and stop charging the battery.
Start Charging Voltage	When connecting a lead-acid battery, set the voltage threshold for starting the generator. When the Battery Voltage falls below the set value, start the generator to charge the battery.
Stop Charging Voltage	When connecting a lead-acid battery, set the voltage threshold for stopping the generator. When the Battery Voltage rises above the set value, turn off the generator to stop charging the battery.

Micro-grid Control Parameters

Parameter name.	Description
Maximum Battery Charging SOC	When the Battery Type is lithium battery, set the Charging SOC upper limit. When the upper limit is reached, stop charging.
Maximum Battery Charging Voltage	When the Battery Type is lead-acid battery, set the charging voltage upper limit. When the upper limit is reached, stop charging.
Micro-grid Forced Start Charging	- When a grid fault occurs, if the battery level is low and cannot support the off-grid operation of the energy storage inverter, click this button to force-start the energy storage inverter to output voltage to the grid-connected inverter, thereby starting the grid-connected inverter. - Takes effect once.

Parameter name.	Description
On-the-hour Trigger	- When a grid fault occurs, if the battery level is low and cannot support the off-grid operation of the energy storage inverter, after enabling this function, the system will force-start the energy storage inverter at fixed times to output voltage to the grid-connected inverter, thereby starting the grid-connected inverter. - Takes effect multiple times.
Grid Power Limit Offset Value	Set the adjustable range of the Max. Power that the device can actually purchase from the grid.

11.3 Battery Parameters

Parameter Settings - Information Configuration

Select the battery model according to the actual connected Battery Type.

When the device is installed in areas such as California, please fill in the power station battery capacity information according to local regulatory requirements to complete JA12 Certification.

Parameter Settings - Lead-acid Settings

When a lead-acid battery is connected, the lead-acid battery parameters need to be set.

Parameter name.	Description
Battery Parameters	
Battery capacity	Set the battery capacity according to the actual parameters.
Battery Internal Resistance	Set the battery internal resistance according to the actual parameters.

Parameter name.	Description
Temperature Compensation	- When the battery temperature changes, the battery charging voltage is affected. Taking 25°C as the reference, for every degree of battery temperature change, the charging voltage upper limit is adjusted according to the set value. - For example, if the charging temperature influence coefficient is set to 10, when the battery temperature rises to 26°C, the charging voltage upper limit decreases by 10 mV.
Discharge Parameters	
Discharge Parameters	Set the battery discharge parameters according to actual requirements.
Charging Parameters	
Constant Charging Voltage	Set the battery voltage value during constant charging according to actual requirements.
Float Charging Voltage	Set the battery voltage value during float charging according to actual requirements.
Float charging current	The maximum Charging Current after the battery charging mode switches from constant/equalizing charging to float charging.
Switch to Float Charging Mode	The duration required for the battery charging mode to switch from constant/equalizing charging to float charging.
Equalizing charge cycle	Set the interval days for battery equalizing charging.

Parameter Settings - Lithium Battery Settings

When a lithium battery is connected, it is necessary to set the lithium battery parameters.

Parameter name.	Description
Maximum Charging Current	Applicable to some models. Set the maximum Charging Current during battery charging according to actual requirements.
Maximum discharge current	Applicable to some models. Set the maximum discharge current during battery discharging according to actual requirements.
Battery heating	• Optional. When a battery supporting the heating function is connected, this option is displayed on the interface. After enabling the battery heating function, if the battery temperature does not support battery starting, PV power or purchased electricity will be used to heat the battery. • Different battery models have different Heating Mode temperatures. Please refer to the actual product. • Enabling the battery heating function will consume a portion of system power. By default, the battery heating function operates in Low Power Mode; if needed, it can be switched to other power modes. • The start and stop of the battery heating function are determined byBMSAutomatically controlled based on the ambient temperature, therefore, differences in the installation environment and location will affect the start/stop of the heating function. • Supports setting heating time periods according to actual needs, but within the time period, the heating function will still automatically start/stop based on the ambient temperature. • If PV and ACThe power only meets the load demand, and the battery capacity is insufficient to support self-heating, so the heating function cannot be enabled.

Parameter name.	Description
Battery Wake-up	- When enabled, if the battery powers off due to under-voltage Protection, the battery can be woken up. - Only applicable to lithium batteries without a circuit breaker. Once enabled, the output voltage at the battery port is approximately 60V.
Breathing Light	- Only applicable to ESA 3-10kW series inverters. - Set the flashing duration of the device's Breathing Light. Supports: always on, always off, 3min. - The default mode is to light up for three minutes after power-on and then automatically turn off.

Protection Parameters - Limit Protection

Parameter name.	Description
SOC Upper Limit	The upper limit for battery charging. Charging stops when the battery SOC reaches the SOC upper limit.
SOC Protection	When enabled, if the battery capacity is lower than the set depth of discharge, the battery Protection Function can be activated.
Grid-Connected SOC Lower Limit	The minimum SOC that the battery must maintain when the inverter is operating in grid-connected mode.
Off-Grid SOC Lower Limit	The minimum SOC that the battery must maintain when the inverter is operating in off-grid mode.
Backup SOC Maintenance	To ensure that the battery SOC is sufficient for normal off-grid operation, the battery will be charged from the grid to the set SOC Protection value when the system is operating in grid-connected mode.

Parameter name.	Description
Off-Grid Recovery SOC	When the inverter is operating in off-grid mode, if the battery SOC drops to the SOC lower limit, the inverter stops output and is used only to charge the battery until the battery SOC recovers to the off-grid recovery SOC value. If the SOC lower limit is higher than the off-grid recovery SOC value, the battery will be charged to SOC lower limit + 10%.

Immediate Charging Parameters

Parameter name.	Description
Immediate Charging	When enabled, the battery is immediately charged from the grid. This takes effect only once.
Stop Charging SOC	When the battery SOC reaches the Immediate Charging SOC upper limit, charging of the battery will stop.
Immediate Charging Power	When Immediate Charging starts, the charging power is a percentage of the inverter's Rated Power. For example, for an inverter with a Rated Power of 10 kW, when set to 60, the charging power is 6 kW.
Start	Start Charging immediately.
Stop	Immediately stop the current charging task.

JA12 Certification

Only applicable in California.

Parameter name.	Description
Certification Capacity	Maintain the battery capacity for Certification according to actual needs and JA12 Certification requirements.
Current Battery System Capacity	The total capacity of batteries currently installed in the system.

11.4 Meter Parameters

Parameter name.	Description
Meter Binding	- When grid-tied inverters and energy storage inverters are used simultaneously in a PV system to implement coupling or microgrid functions, dual meters may be used in the system. Please set the Meter Binding information according to actual usage. - Only applicable to GoodWe meters.
Meter/CT Auxiliary Detection	Use this function to detect whether the meter CT is connected correctly and its current operating status.
External Meter CT Ratio	Set the current ratio between the primary side and the secondary side of the external CT connected to the meter.

11.5 Smart Communication Stick Parameters

NOTE

When the communication module connected to the inverter differs, the communication configuration interface may differ. Refer to the actual interface.

Communication parameters.

Parameter name.	Description
WLAN/LAN	
WLAN Control	Disabled by default. After this feature is enabled, when the App and the device are on the same LAN, they can connect via WLAN; otherwise, they cannot connect even if they are on the same LAN.
Modbus TCP	After this feature is enabled, third-party platforms can access the inverter via the Modbus TCP protocol for monitoring.
LAN	Automatically identify the LAN network to which the device is connected.

Parameter name.	Description
WLAN	Based on the actual situation, select the WiFi network the device connects to, and enable communication between the device and the router or switch.
4G	
APN Settings	• APN settings are only applicable to configuring SIM card information for 4G communication devices. • If the 4G module does not provide Bluetooth signal, configure APN parameters via the Bluetooth module or WiFi module first to enable 4G communication.
Bluetooth	
Bluetooth Stays On	Disabled by default. When this feature is enabled, the device's Bluetooth Stays On to maintain connection with the App. Otherwise, the device's Bluetooth will turn off after 5 minutes and disconnect from the App.
WLAN Networking	
WLAN Networking	• Only applicable to microinverters. • It is recommended to set the inverter with high RSSI in the network as the master node.

Password

Supports modifying the App login password when using Local Access.

When Local Access is performed via WiFi, the hotspot password of the WiFi communication stick can be modified.

Control/Enable Parameters

Parameter name.	Description
FTP	When this function is enabled, system operation data can be uploaded to a designated server via FTP protocol, enabling remote monitoring.
Remote Maintenance	When this function is enabled, remote maintenance of the device is supported, such as remote upgrade.
Restore Factory Settings	Restore the smart communication stick to factory settings, including password, network configuration information, etc.

11.6 Home Energy Management Device Parameters

NOTE

Please set the parameters according to local laws, regulations, and grid standard requirements.

Grid Control Parameters

No.	Parameter name.	Description
1	Enable Function	According to the grid standard requirements of certain countries or regions, turn on this function when output power limit is required.
2	Power Limit	Set the Max. Power that the device can actually feed into the grid according to the requirements of certain countries or regions.

No.	Parameter name.	Description
3	Power Limited Type	Select the method of controlling the device output power according to the actual situation. • Total power: Control the total power at the grid connection point so that it does not exceed the output power limit. • Single-phase power: Control the power of each phase at the grid connection point so that none exceeds the output power limit.
4	Grid-connected Power Limit Offset	Set the adjustable range of the Max. Power that the device can actually feed into the grid. Max. Power Delivered to the Grid = Maximum Feed-in Power to Grid + Maximum feed-in power offset value.
5	Reverse Power Protection Handling Method	When the system experiences reverse power for longer than the maximum Protection time (default 5s), the following Protection measures may be taken: • Power limitation: The device continues to operate at a percentage of the Rated Power. • The device disconnects from the grid.
6	Power Limit Protection Handling	The device continues to operate at a percentage of the Rated Power.
7	Meter Communication Anomaly Handling	Enable this function. When communication between the meter and the device is abnormal, Protection measures will be taken.

No.	Parameter name.	Description
8	Meter Abnormality Handling Method	When the system experiences a meter communication abnormality, the following Protection measures may be taken: • Power limitation: The device continues to operate at a percentage of the Rated Power. • DeviceDisconnect from grid.
9	Meter Handling Power Limit	The device continues to operate at a percentage of the Rated Power.

Power Control Parameters

No.	Parameter name.	Description
RCR: According to standards in Germany and other regions, the device must provide an RCR (Ripple Control Receiver) signal control port to meet grid dispatch requirements.		
1	RCR	Enable or disable the RCR function.
2	Active Dispatch	• According to the grid company's requirements and the RCR fixture type, select one or more DI ports and set the corresponding percentage. The percentage refers to the system output power as a percentage of the Rated Power. • Supports configuration of 16 percentage levels. Please set according to the actual requirements of the grid company. • Do not set duplicate state combinations for DI1-DI4, otherwise the function will not work properly. • If the actual wiring of the connected DI port does not match the set value, the operating state will not take effect.

No.	Parameter name.	Description
3	Reactive Dispatch	- According to the grid company's requirements and the RCR fixture type, select one or more DI ports and set the corresponding PF value. - Supports configuration of 16 Power Factor levels. Please set according to the actual requirements of the grid company. - PF value range requirements: [-100, -80] or [80,100]. [-100, -80] Corresponding Power factor lag [-0.99, -0.8]; [80,100] Corresponding Power factor lead [0.8,1]. - Do not set duplicate state combinations for DI1-DI4, otherwise the function will not work properly. - If the actual wiring of the connected DI port does not match the set value, the operating state will not take effect.
RCR&EnWG 14a: - According to standards in Germany and other regions, the device must provide an RCR (Ripple Control Receiver) signal control port to meet grid dispatch requirements. - For regions where the EnWG 14a regulation applies, all controllable loads must accept emergency dimming from the grid. The grid operator can temporarily reduce the maximum power purchased from the grid by controllable loads to 4.2 kW.		
4	RCR&EnWG 14a	Enable or disable the RCR & EnWG 14a function.
5	Import Power Limit	According to local grid regulation requirements, set the upper limit for power purchased from the grid.

No.	Parameter name.	Description
6	Active Dispatch	• The DI4 port is fixed for EnWG 14a. • According to the grid company's requirements and the RCR fixture type, select one or more DI ports and set the corresponding percentage. The percentage refers to the system output power as a percentage of the Rated Power. • Supports configuration of 8 levels of percentage values. Please set according to the actual requirements of the grid company. • Do not set repeated state combinations of DI1-DI3; otherwise, the function will not work properly. • If the actual wiring of the connected DI port does not match the set value, the operating state will not take effect.
7	Reactive Dispatch	• The DI4 port is fixed for EnWG 14a. • According to the grid company's requirements and the RCR fixture type, select one or more DI ports and set the corresponding PF value. • Supports configuration of 8 Power Factor levels. Please set according to the actual requirements of the grid company. • PF value range requirements: [-100, -80] or [80,100]. [-100, -80] Corresponding Power factor lag [-0.99, -0.8]; [80,100] Corresponding Power factor lead [0.8,1]. • Do not set repeated state combinations of DI1-DI3; otherwise, the function will not work properly. • If the actual wiring of the connected DI port does not match the set value, the operating state will not take effect.
Remote Shutdown: According to requirements in certain countries or regions, the device must provide a Remote Shutdown function to control the device to stop working in emergency situations.		
8	Remote Shutdown	Enable or disable the Remote Shutdown function.

No.	Parameter name.	Description
9	Recovery On-Grid Immediate	After the device is shut down, if you need to restore the grid-connected state, first manually power on the device, then click Recovery On-Grid Immediate.

Other Parameters

No.	Parameter name.	Description
Meter Settings		
1	Select Meter	Select the meter model actually connected.
2	Wiring Mode	Set the wiring mode of the meter. Supported: • Single-phase single-wire • Three-phase three-wire • Three-phase four-wire
3	CT Ratio	• Set when the meter model is GM330. • Set the CT ratio value of the meter.
Antenna Settings		
4	Select Antenna	Select the built-in antenna or external antenna according to the actual situation.
Time Settings		
5	Network Time Synchronization	After enabling, select the time synchronization server, and synchronize time according to the selected time source.

No.	Parameter name.	Description
6	Time Server	Set the time synchronization server. Supported: - time.google.com - pool.ntp.org - ntp.aliyun.com

Export Logs

Supports exporting device operation logs. Before exporting logs, please confirm that the HEMS and the phone are connected to the same router.

11.7 Charging Pile Parameters

Parameter name.	Description
Plug and Play	- After enabling Plug and Play, insert the charging gun into the vehicle to start charging. - If charging is interrupted, please unplug and reinsert the charging gun or manually start charging.
Scheduled Charging	Set the scheduled charging time according to actual needs; supports selecting single charging or multiple cycle charging.
Distance per kWh Setting	Set the energy-mileage conversion ratio.

11.8 Operation and Maintenance Parameters

Parameter name.	Description
Firmware Upgrade	• Supports viewing or upgrading firmware versions such as the device's DSP version, ARM version, BMS version, AFCI version, STS version, communication module, etc. • Supports viewing firmware upgrade records. • Firmware upgrade methods: one-click upgrade of all firmware, individual firmware upgrade, and manual import firmware upgrade. Different devices support different upgrade methods; please refer to the actual device. • Some devices do not support upgrading the software version via the App; please refer to the actual device.
Log Export	• Supports exporting, downloading, and sharing logs. • Supports exporting different types of logs, such as communication module logs, inverter logs, etc. • Some models support exporting the safety regulation parameter file after selecting the safety regulation country.
Grid	
Auto Test	According to the grid standard requirements of certain countries or regions, enable this function when an automatic grid-connection test needs to be set.

12 Contact Information

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