



EMS for PowerHill (143-215kWh)

User Manual

Notice

This manual contains important safety instructions, installation, electrical connections, commissioning, maintenance, and troubleshooting of the equipment.

Save the manual

This manual must be stored carefully and be available at all times.

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Content

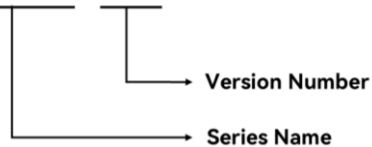
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About This Manual

Overview

Please read the manual carefully before installation, operation, or maintenance of the EMS series. This manual contains important installation instructions that must be followed during installation and maintenance of the equipment.

EMS-S1



No.	Meaning	Description
1	Series Name	EMS: Energy Management System
2	Version Number	S1, S2, S3

Intended Audience

This manual is intended for technical professionals for installation, commissioning and maintenance of the product. The technical personnel have to be familiar with the product, local standards, and electric systems.

Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Issue 01 (2024-09-30)

This issue is used for first application

Issue 02 (2026-01-22)

Moved the content of EMS External Interface to Chapter1.4, added Chapter 2, 4.3, 4.4, and 4.5, updated Chapter 3, 4.1, and 4.2.

Issue 03 (2026-04-08)

Updated the description for Photovoltaic inverters type in Table 4-2

1 Overview

1.1 Summary

EMS is a lightweight on-site control and energy management system, mainly used in application scenarios containing battery storage devices, through which the application of the system can achieve on-site multi-storage device power distribution, multi-energy (load, photovoltaic, generators, etc.) complementary monitoring and energy management.

- Covers a wide range of energy storage application scenarios, including energy storage, photovoltaic, grid and other multi-energy complementary scenarios. There are three EMS versions based on different application scenarios, each with specific functions as follows:

EMS Model	Application Scenarios
EMS-S1	PQ module, accepts scheduling from upper-level EMS
EMS-S2	Photovoltaic DC coupling, peak-valley arbitrage, distribution capacity enhancement
EMS-S3	Photovoltaic AC coupling, with strategic control capabilities

- Supports access to cloud and third-party monitoring systems.
- System operation logs are traceable.
- Integrate multiple energy management strategies.

1.2 EMS Unit

Figure 1-1 EMS Appearance

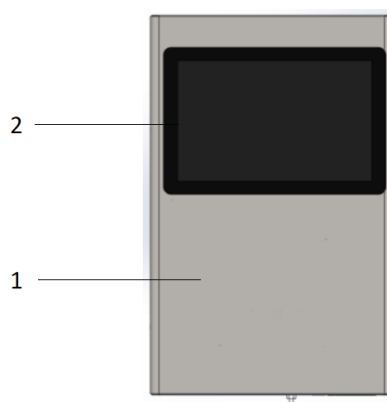


Table 1-1 EMS Appearance

No.	Name	Function
1	EMS cabinet	Cabinet
2	Display	Display EMS interface information

Figure 1-2 EMS Internal structure diagram

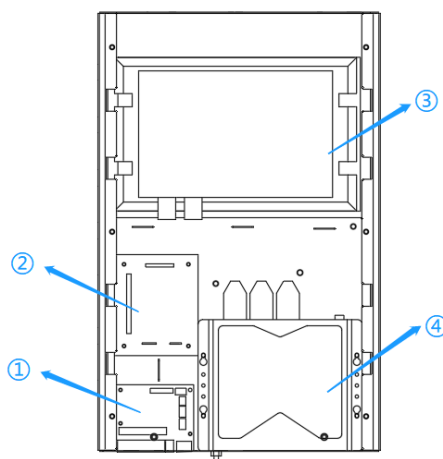


Table 1-2 EMS Internal structure diagram

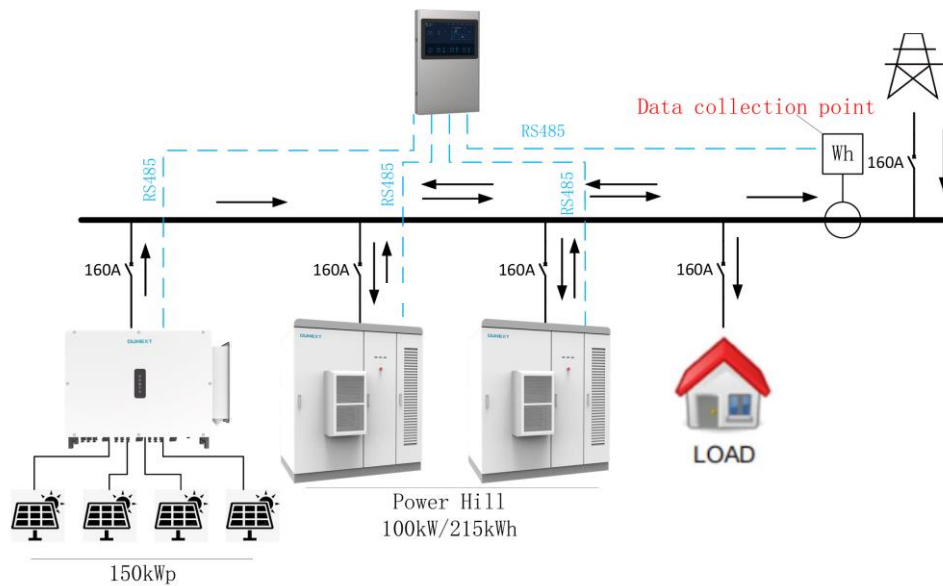
No.	Name	Function
①	Wiring Adapter Boards	Line adapter, external interface
②	Monitor Controller	/
③	Displays	User Interface Display
④	EMS Industrial Controller	Microcomputer mainframe

Table 1-4 EMS External Interface

No.	Name	Function	Remark
①	PowerHill 485 communication interface	PowerHill 485 communication	PowerHill 485 communication is connected to this interface, EMS can obtain PowerHill information and control PowerHill.
②	Grid backflow meter 485	Grid backflow prevention meter 485 communication	485 communication of external grid backflow prevention meter is connected to this interface.
③	Reserved 485 interface	PV inverter 485 communication	Connect the external AC-coupled PV inverter to this 485 communication port.
④	CAN1	External CAN communication	/
⑤	NO/NC interface	External dry contact, control of circuit breaker opening and closing / external PV side meter pickup	SOCL and SOCH can be set on EMS, NO is closed and NC is disconnected when energy storage SOC is greater than SOCH, NO is disconnected and NC is closed when energy storage SOC is less than SOCL.
⑥	DI interface	/	/
⑦	DC12V power input	EMS power supply	The power supply line is connected to this interface, when it is connected, it will power up and run, when it is disconnected, it will power down and stop.
⑧	NET1	Customer network cable communication interface	/
⑨	NET2	EMS networking interface	/
⑩	USB interface	Wireless WIFI interface	/

1.5 System Application

Figure 1-4 System Grid Connection Application



1.6 Function List

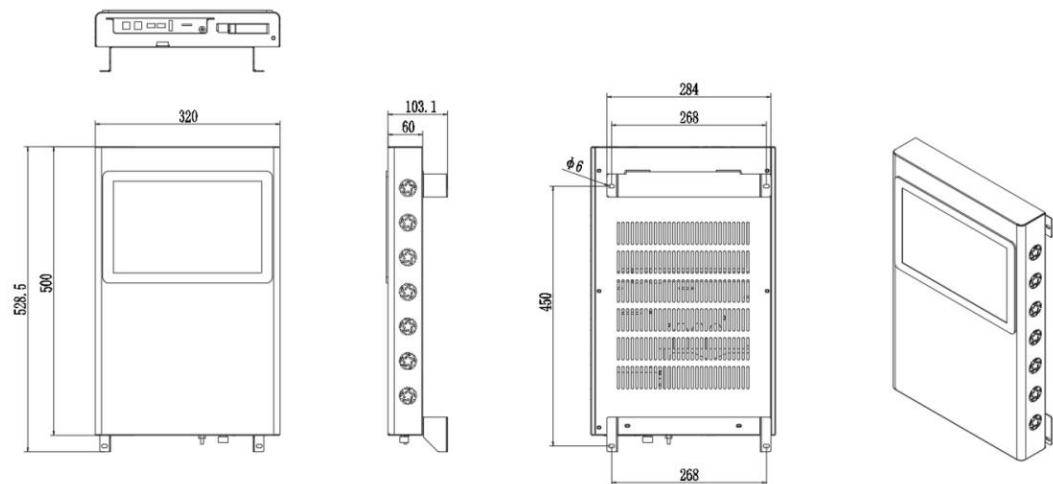
Table 1-5 Function List

No.	Function	Description
1	Start stop control	Control the start and stop of the entire system
2	Charging and discharging control	Charging and discharging of control system
3	Power allocation	Maximizing power based on the operating status of the system
4	Photovoltaic spontaneous self use	EMS optimizes PV consumption based on the data of photovoltaic power, load, and energy storage
5	Peak valley mode	EMS control system operates according to preset time periods and power to achieve profit from electricity price differences
6	Backup mode	Maintain EMS control system above a certain SOC to achieve standby power state
7	Local data storage	EMS can store system data locally, duration: 3 months, frequency: 15s

2 Installation

2.1 EMS Installation

Figure 2-1 EMS Installation

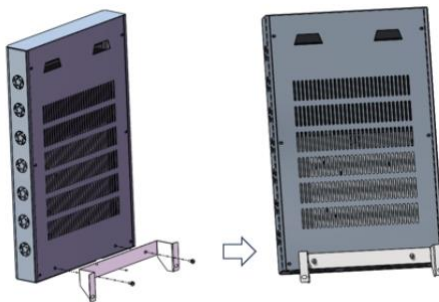


EMS Box Installation Procedure:

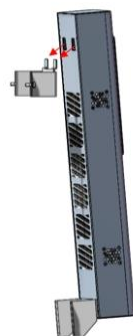
Step 1: Secure the bracket to the wall using two M5 bolts. Torque to 3 N·m.



Step 2: Mount the bracket to the lower back of the EMS using two M4 bolts. Torque to 1.6 N·m.



Step 3: Hang the EMS onto the wall-mounted bracket.



Step 4: Secure the EMS at the bottom with two M5 bolts. Torque to 3 N·m.



3 Page Introduction

3.1 Main Page

The main page of the EMS control box can view the total real-time operation information and situation of the system, and can issue commands for system start/stop, working mode, system charging/discharging power and so on, as shown below:

Figure 3-1 Main Page

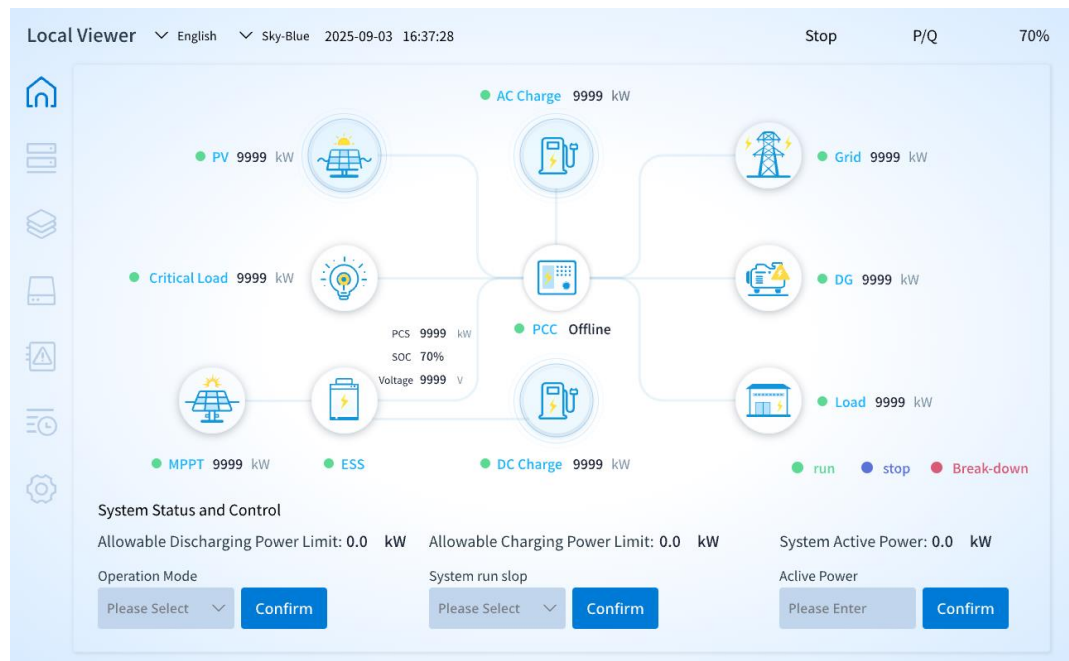


Table 3-1 Web Main Page

No.	Item	Description
1	Top Bar	● Displays the system name. ● Language Switch Dropdown: Allows for multi-language switching. ● Theme Switch Dropdown: Allows switching between Light and Dark themes. ● Displays the current date and time. ● Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	● Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	System Topology	● Displays a live topology showing status and power for battery cabinets, load, grid, PV, and EV chargers. ● Animated lines represent current power flow.
4	System Status & Control Panel	● Allowable discharging power limit, Allowable charging power limit, system active power. ● Allows management of operation mode, system run slop, and active power.

3.2 System Information Page

Click the “” button to enter the system information page, you can view the current operating status of the energy storage system, SOC, 24-hour power - SOC curve and other operating parameters, as shown below.

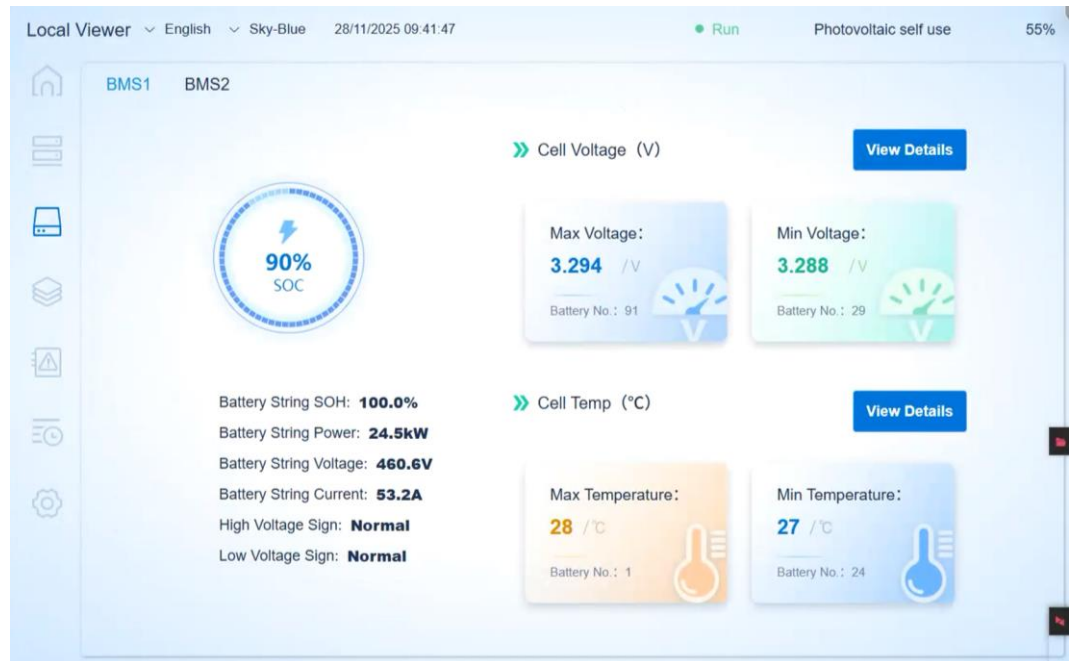
Figure 3-2 Web System Information Page

Table 3-2 Web System Information Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	System State	Displays system state, SOC, charge power, discharge power, control power.
4	24-hour System Power and SOC Change Curve	- Displays the system's daily operating power curve and SOC change curve. - You can switch the display date in the top-right corner by clicking to select a date.

3.3 BMS Information page

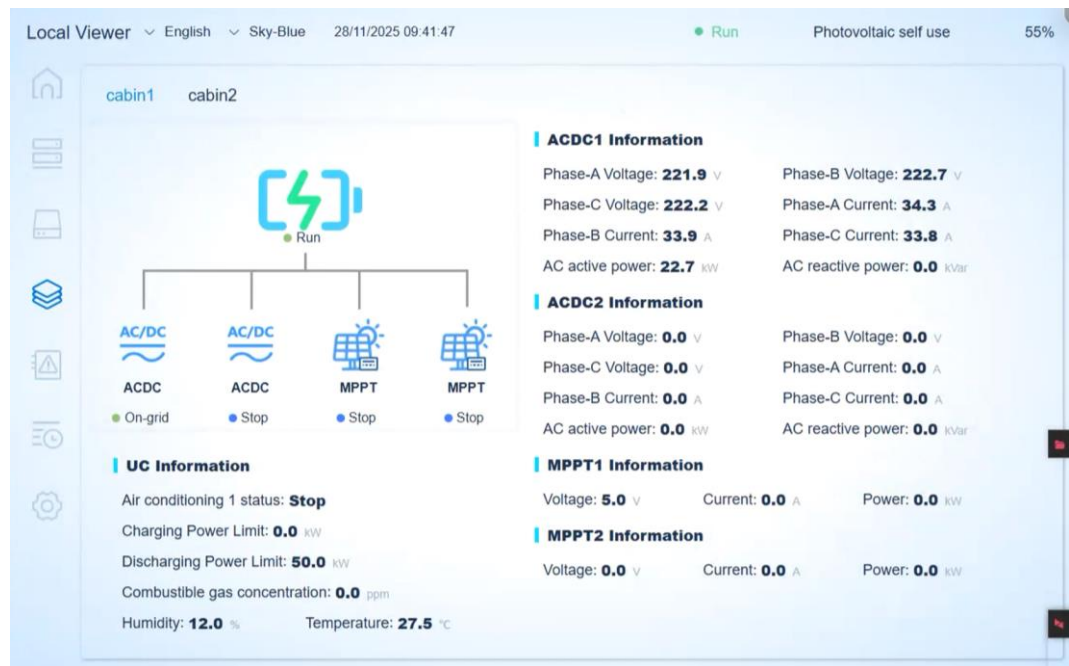
Click the “” button to enter the BMS information page, you can view the detailed operating parameters of a single battery cabinet, as shown below:

Figure 3-3 Web BMS Information Page

Table 3-3 Web BMS Information Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	BMS Information	Displays battery string SOC, battery string SOH, battery string voltage, battery string current, high voltage sign, low voltage sign.
4	Chart Display	Displays the voltage and temperature of each individual cell, along with the maximum, minimum, and average values.

3.4 Cabin Information Page

Select and click the " " button to view the PCS and battery SOC information of the corresponding battery cabin, as shown below:

Figure 3-4 Web Cabin Information Page

Table 3-4 Web Cabin Information Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	Battery Cabin Module Diagram	Displays the overall status, SOC of the battery cabin, as well as the status, voltage, and power of each module.
4	Battery Cabinet Data	- Displays UC information, including charging/discharging power limit, temperature, air conditioning 1 status, and air conditioning 2 status. - Displays ACDC1 and ACDC2 information, including three-phase voltage, three-phase current, and AC active power.

3.5 Current Fault and Alarm Information Page

Click " " to enter the Current Fault and Alarm Information page, you can view the current system fault and alarm information, click "Viewing Historical Information" to enter the historical fault and alarm page.

Figure 3-5 Current Fault and Alarm Information Page

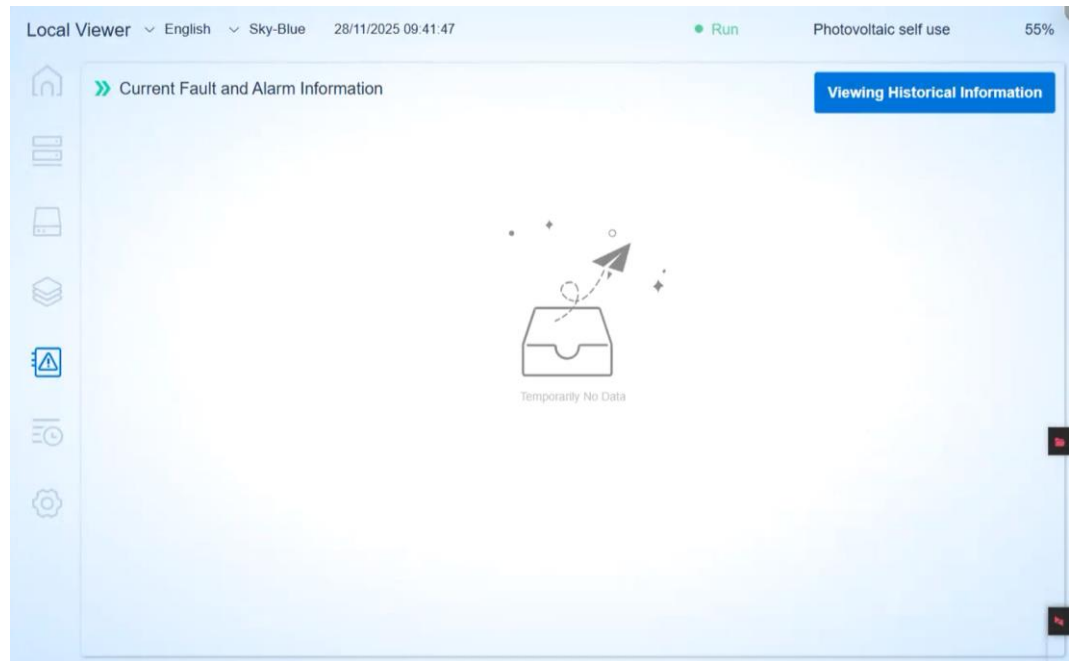


Table 3-5 Current Fault and Alarm Information Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	Current Fault and Alarm Table	Displays the current fault and alarm information
4	"Viewing Historical Information" Button	Click to go back to the historical fault and alarm page

3.6 Historical Fault and Alarm Information Page

On the Historical Fault and Alarm Information page, you can select a date range to view the corresponding historical fault and alarm information. Click the "Viewing Current Information" button to return to the Current Fault and Alarm page, as shown below:

Figure 3-6 Historical Fault and Alarm Information Page

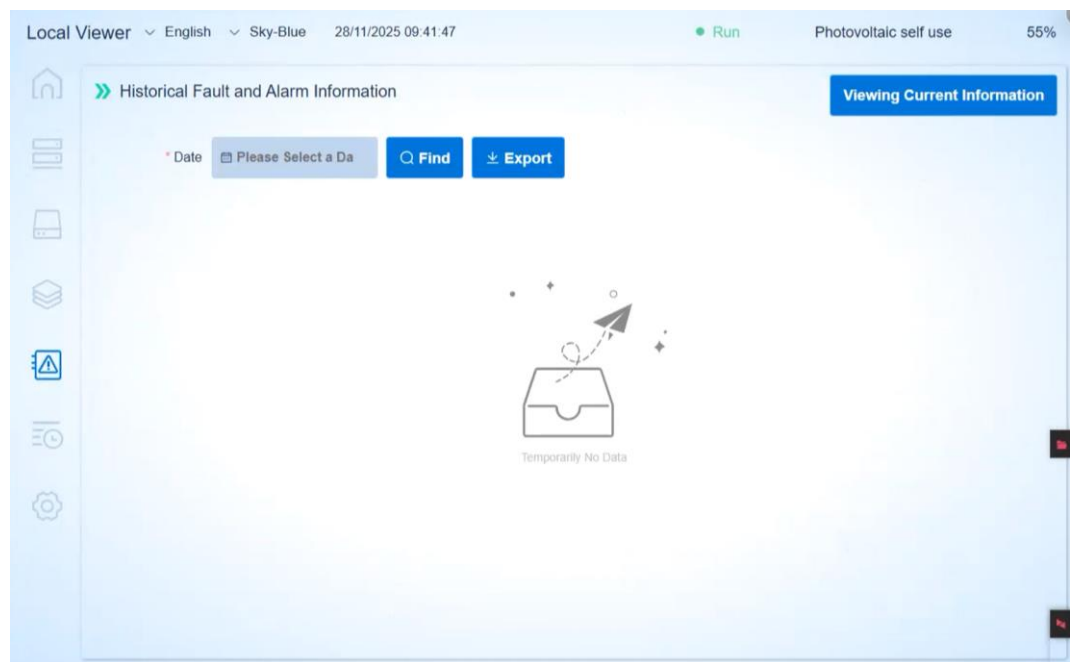
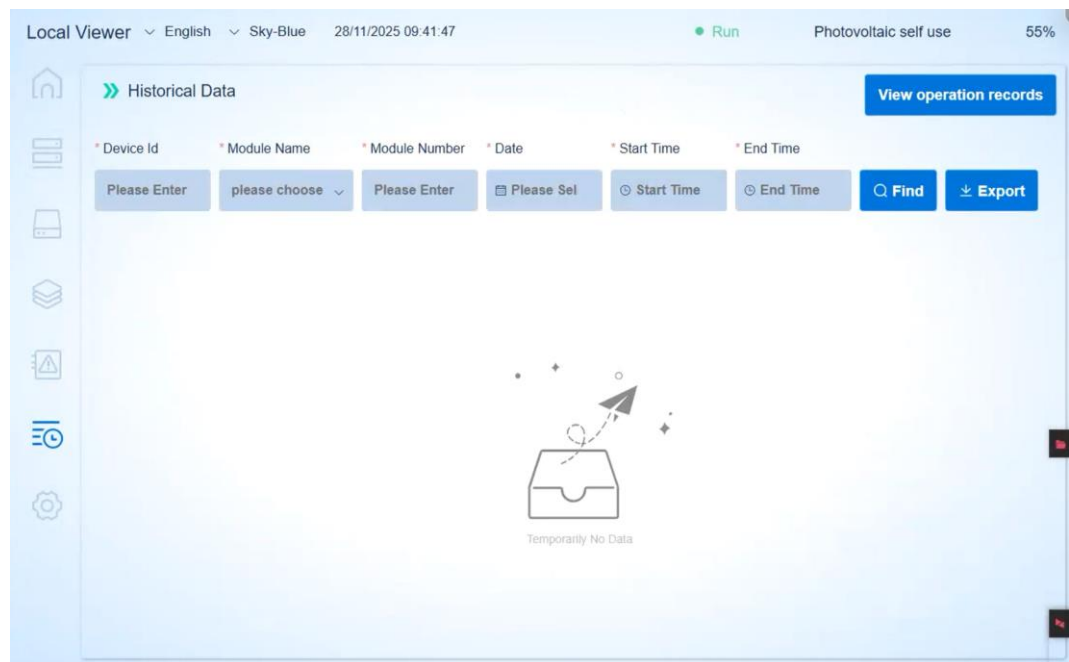


Table 3-6 Historical Fault and Alarm Information Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	Historical Fault and Alarm Table	- Select a date and click “Find” to retrieve historical fault and alarm data for that specific day. - Click “Export” to save the historical fault and alarm data for the selected date. You can customize the storage path.
4	“Viewing Current Information” Button	Click to go back to the current fault and alarm page

3.7 Historical Data Page

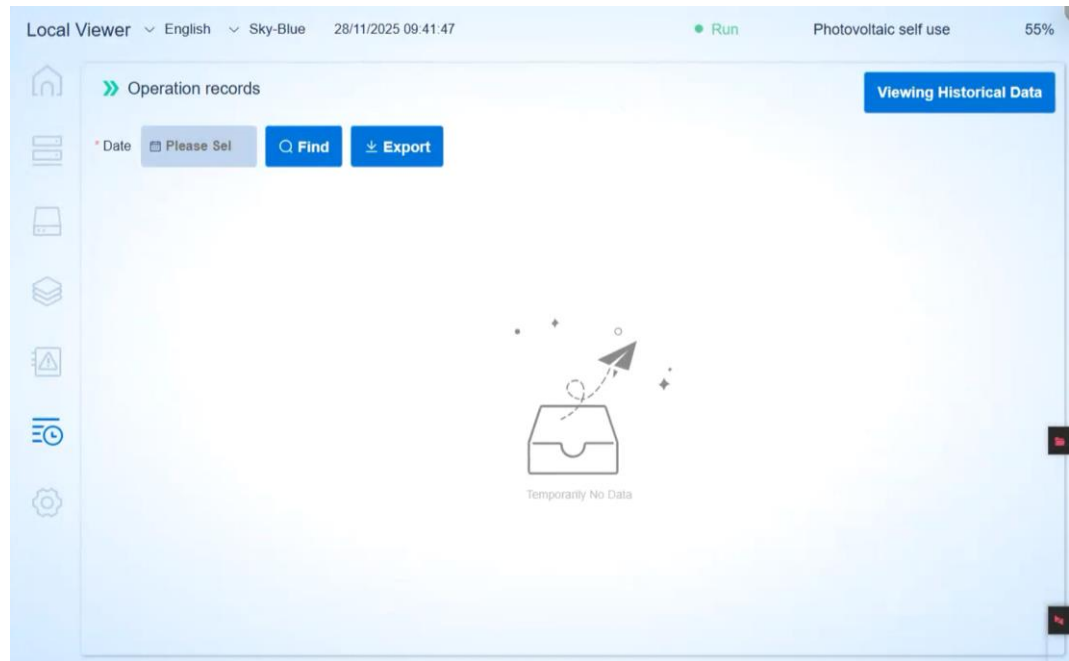
Click “” to enter the historical data page, and you can select the device ID, module name, module number, date, start time, end time to view the range of historical data, and export the table data to a specified location, as shown below:

Figure 3-7 Historical Data Page

Table 3-7 Historical Data Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	Historical Data Table	- Select the device ID, module name, module number, date, start time, end time to view the range of historical data, and export the table data to a specified location - Click "Export" to save the historical fault and alarm data for the selected date. You can customize the storage path.
4	"View Operation Records" Button	Click to go to the Operation Records page

3.8 Operation Records Page

Click "View Operation Records" to enter the page, and you can select a date range to view the corresponding operation records information, and export the table data to a specified location, as shown below:

Figure 3-8 Operation Records Page

Table 3-8 Operation Records Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	Operation Records Table	- Select a date range to view the corresponding operation records information - Click "Export" to export the table data to a specified location
4	"Viewing Historical Data" Button	Click to go to the Historical Data page

3.9 Settings Page

Click  to enter the Settings page. On this page, the "Enter Edit" button is used to toggle the edit mode. Note that this button is disabled when the system control mode is set to "Remote". When switching to edit mode, you must enter the correct password to proceed. The default system password is "88888888". In edit mode, you

can configure parameters such as control power. The settings page and password input dialog are shown in the figure below.

Figure 3-9 Password Required in Edit Mode

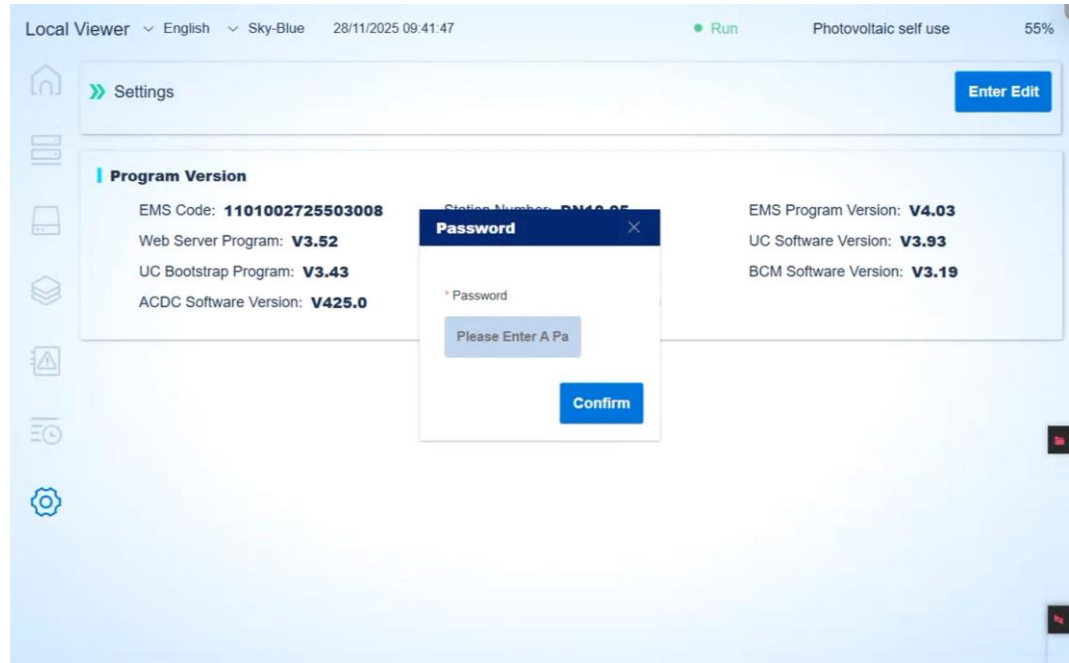


Figure 3-10 Base Settings

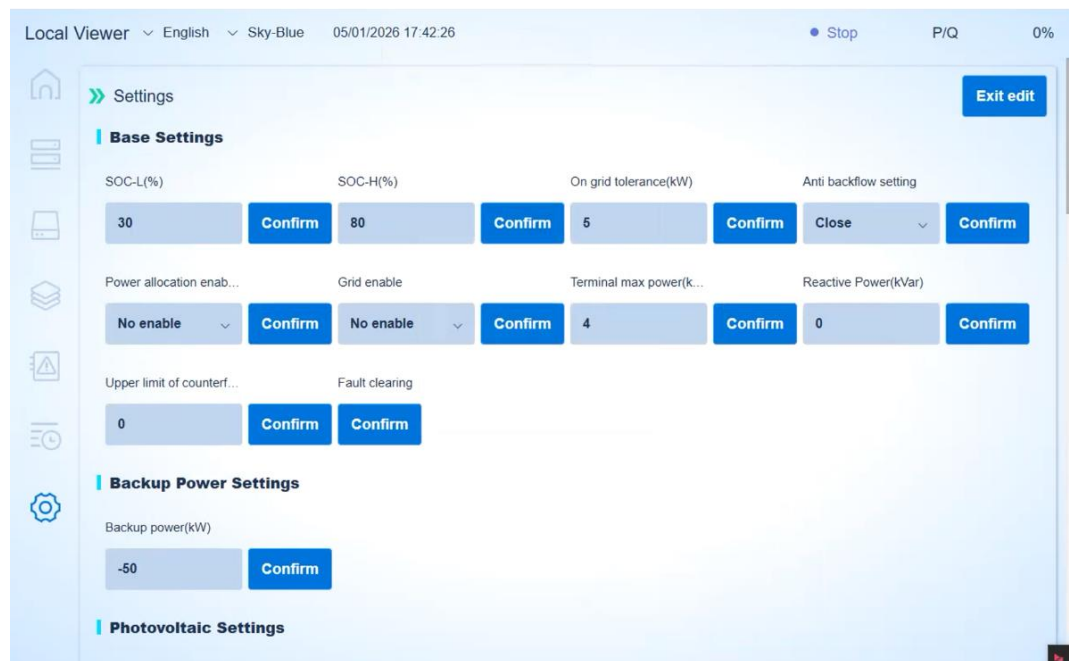


Table 3-9 Settings Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	System Control Settings	- SOCL: Sets the minimum SOC. The system stops discharging when the battery level reaches this value. - SOCH: Sets the maximum SOC. The system stops charging when the battery level reaches this value. - On-grid tolerance: In Peak Cut or Photovoltaic Self Use mode, this is the grid discharging power. - Anti backflow setting: It can be enabled or disabled. - Power allocation enable: Determines the level of system automation. When enabled, the total power target is allocated and dispatched to individual PCS units. Options: "Enable" or "Disable". - Terminal max power: This is the maximum allowable power for the entire site. - Reactive power: Power that continuously oscillates between the source and the load, not consumed as real work. - Upper limit of counterflow: The maximum instantaneous power allowed when the energy storage system feeds power back to the grid. - Fault clearing: Clears faults that have been resolved in reality.
4	Program Version	Displays the version numbers of programs including EMS, Web Server, Data Acquisition, PUC, UC, and ACDC.

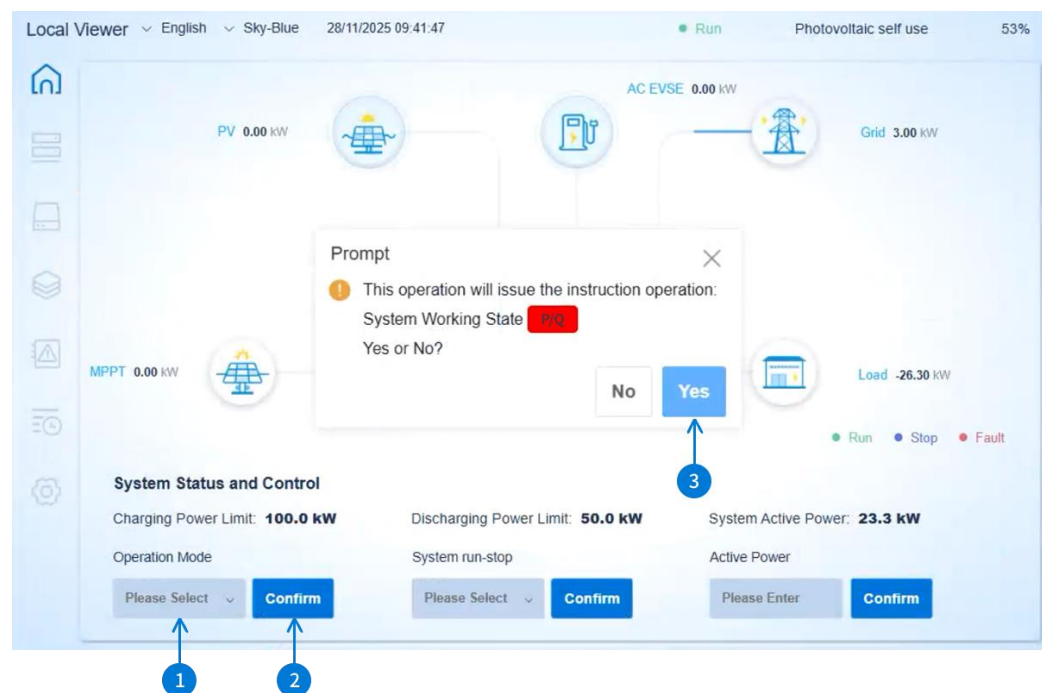
4 Functions

Precondition: Issuing system mode commands is invalid when the system is in fault or when control power does not belong to the local EMS. Control power must be switched first. (This restriction applies to all commands below except for control power.)

4.1 System Control

4.1.1 Operation Mode Control

Figure 4-1 Operation Mode Control



Operation Mode Control Procedure:

Step 1: Click to select the mode

Note:

P/Q Mode: The energy storage system is in on-grid mode. Its power can be dispatched by the upper-layer EMS.

Off-grid Mode: The energy storage system is in off-grid mode. Its charging and discharging are not dispatched by the upper-layer controller but operate passively, while system run/stop is dispatched by the upper-layer EMS.

On/Off-grid Mode: The system automatically checks the grid status and switches its operating mode accordingly.

Peak Cut Mode: In on-grid mode, by setting charging/discharging time slots, the system charges during low electricity price periods and discharges to follow the load during high price periods to achieve arbitrage.

Expansion Mode: In on-grid mode, by setting charging/discharging time slots, the system discharges to support the load when grid power is insufficient during the designated expansion periods.

Backup Power Mode: By setting a low SOC threshold, the system ensures a certain amount of energy is reserved in storage.

Photovoltaic Self Use Mode: Based on site power fluctuations, the system automatically adjusts PV output power and storage charging/discharging power. It absorbs excess PV power when available and discharges storage when PV is insufficient, reducing grid usage to improve PV utilization, lower grid dependency, and reduce electricity costs.

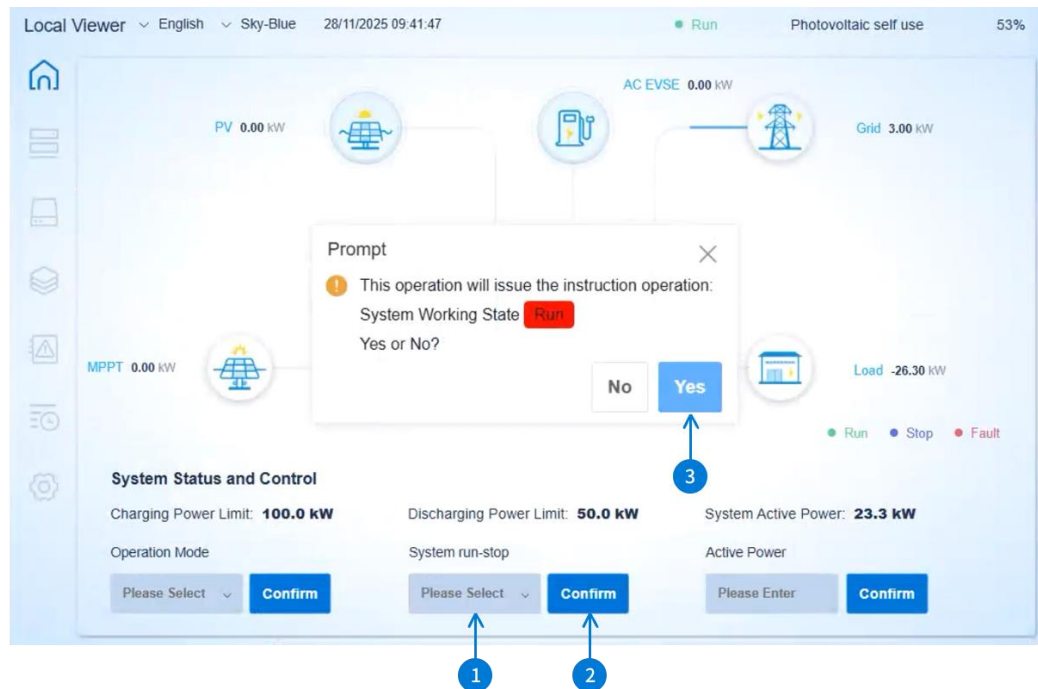
Step 2: Click to issue the operating mode.

Step 3: Confirm issuing the operating mode. (Secondary confirmation to prevent accidental operation.)

4.1.2 System Run-Stop Control

Note: The run/stop button is only available when the system is fault-free. To use this function, the current system status must be confirmed first.

Figure 4-2 System Run-Stop Control



System Run-Stop Control Procedure:

Step 1: Click to select the working state

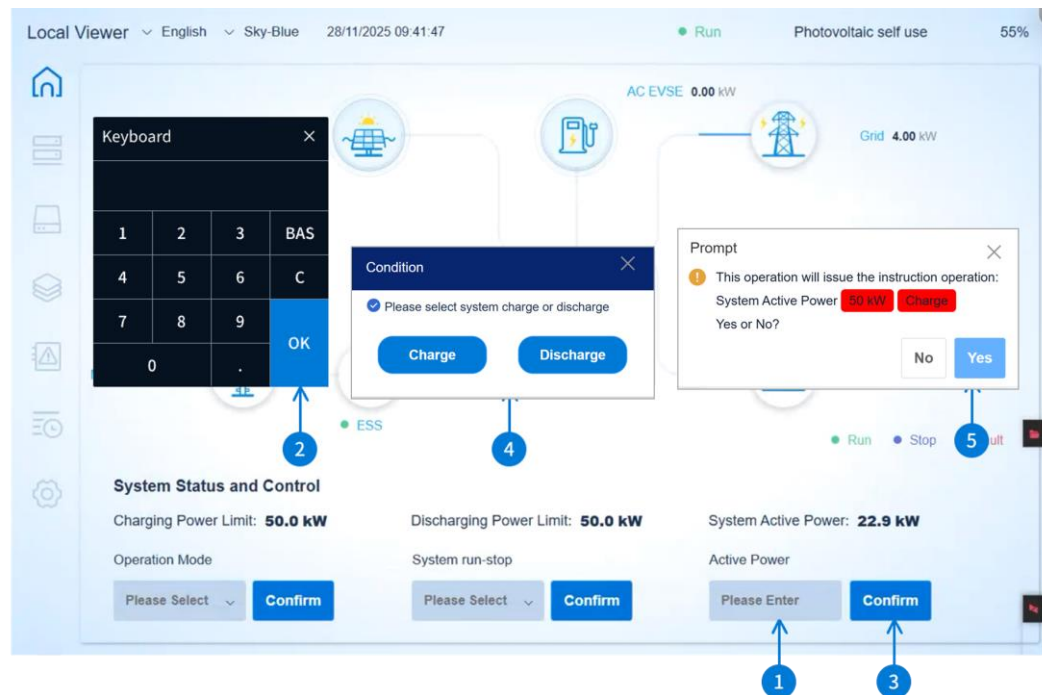
Step 2: Click to issue the working state

Step 3: Confirm issuing the working state. (Secondary confirmation to prevent accidental operation.)

4.1.3 Active Power Control

Note: The active power control button is only available when the system is fault-free. To use this function, the current system status must be confirmed first.

Figure 4-3 Active Power Control



Active Power Control Procedure:

Step 1: Click to enter the active power. Note that the charging/discharging power value must not exceed the allowed charging/discharging power limits.

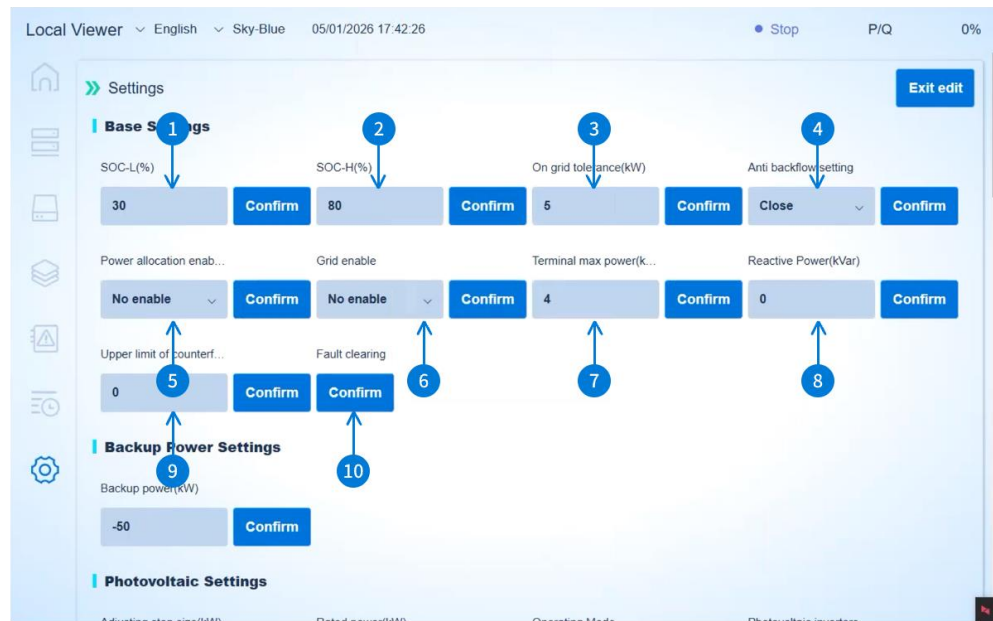
Step 2: After the numeric keypad pops up, enter the power value and click "OK" to confirm. The unit of power is kW.

Step 3: Click to confirm issuing the power value.

Step 4: Select charge/discharge status.

Step 5: Confirm issuing the active power. (Secondary confirmation to prevent accidental operation.)

4.2 Base Settings

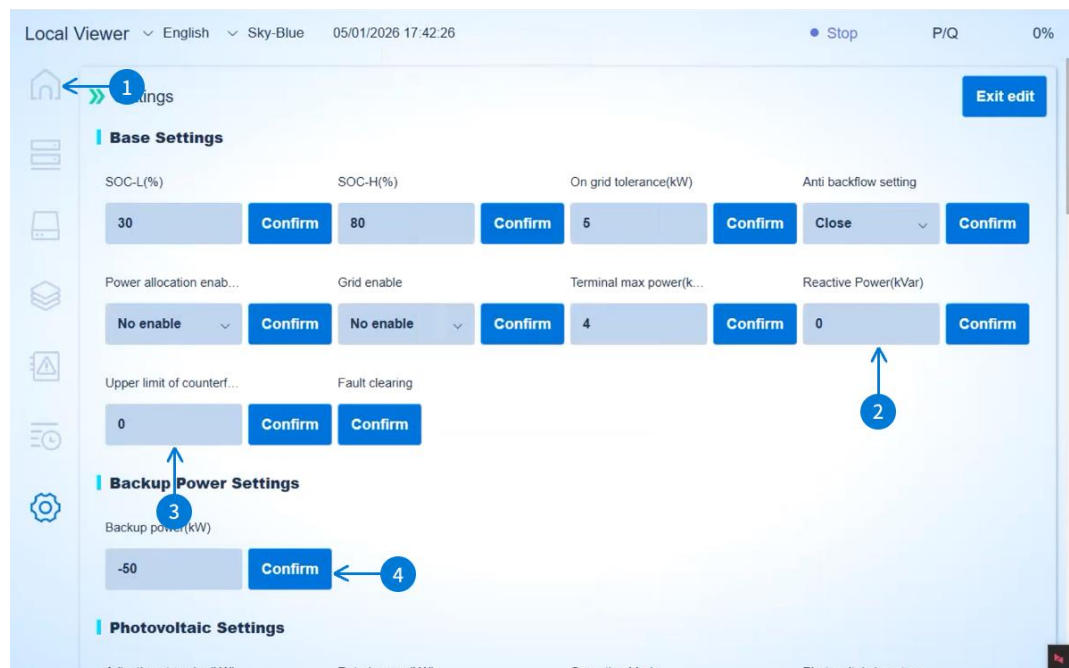
Figure 4-4 Base Settings

Table 4-1 Base Settings Parameters

No.	Item	Description
1	SOC-L	When the battery charge reaches this set value, the system will stop discharging to prevent over-discharge protection (except in Backup Power Mode).
2	SOC-H	When the battery charge reaches this set value, the system will stop charging to prevent over-charge protection (except in Backup Power Mode).
3	On-grid tolerance	The discharge power value maintained by the grid as the tolerance margin.
4	Anti backflow setting	This setting determines whether anti-backflow protection is enforced, based on whether the local grid regulations permit reverse power feed. ● If the grid allows reverse feed, anti-backflow can be disabled. ● If the grid does not allow reverse feed, anti-backflow must be enabled. (Note: Enabling anti-backflow requires the installation and configuration of an external anti-backflow meter.)
5	Power allocation enable	Used for power distribution among multiple parallel energy storage units. ● Enable: EMS allocates power based on the SOC of each cabinet. ● Disable: EMS distributes power equally among all units.
6	Grid enable	In the Photovoltaic Self Use Mode: PV Controlled - Priority Load (Time Period), this setting determines whether grid power can be used for

No.	Item	Description
		charging.
7	Terminal max power	The maximum power capacity that the on-site transformer can withstand.
8	Reactive power	Power that continuously oscillates between the source and the load without being consumed as real work.
9	Upper limit of counterflow	The maximum instantaneous power allowed when the energy storage system feeds power back to the grid.
10	Fault clearing	Click to clear faults that have already been resolved. The fault list will automatically refresh afterward.

4.3 Backup Power Settings

Figure 4-5 Backup Power Settings



Backup Power Mode Settings Procedure:

Step 1: Issue backup power mode. For details, please refer to 4.1.1.

Step 2, 3: Issue SOC-L and SOC-H.

When system SOC < SOC-L, the system will perform forced charging at the set backup power until SOC ≥ SOC-H, then charging stops.

When $SOC-L < SOC < SOC-H$, if the system receives a charge/discharge command, it will automatically switch from Backup Power mode to P/Q mode and operate according to the power command.

Step 4: Issue backup power

4.4 Photovoltaic Self Use Settings

4.4.1 Photovoltaic Settings

Figure 4-6 Photovoltaic Settings



Table 4-2 Photovoltaic Settings Parameters

No.	Item	Description
1	Photovoltaic Self Use Mode Issuing	For details, please refer to 4.1.1.
2	Adjusting step size	When EMS has no communication with PV and anti-backflow is active (EMS cannot control PV and PV itself has anti-backflow restrictions), EMS adjusts the energy storage power according to the specified adjusting step size to lift PV output toward its maximum generation.
3	Rated power	Total rated power that the PV inverters can produce
4	Operating mode	1) AC Connection: 1 . PV Controlled – Priority Load: With anti-backflow enabled: PV powers the load first, surplus charges the storage. When storage is full, PV generation is limited. With anti-backflow disabled: PV powers the load first, surplus charges the storage. When storage is full (reaches SOC_H), output is limited according to the set allowable reverse power limit.

No.	Item	Description
		2 . PV Controlled – Priority Storage: EMS controls PV to operate at rated power, and controls the storage to follow PV output. If storage reaches SOC_H, EMS controls PV to follow the load. If PV fails or its output is low, EMS controls storage to cover the energy gap. 3 . PV Controlled – Priority Load (Time Period): - Without time periods: same as "PV Controlled – Priority Load". - During charging periods: - If "Grid Enable" is ON, storage charges from PV + grid at the set period power. - If "Grid Enable" is OFF, storage does not draw from the grid and only charges from PV surplus. - During discharging periods: - With "Anti-backflow" ON: configure Adjusting Step Size step-by-step; storage and PV supply the load without backflow; if load is low, PV output is limited. - With "Anti-backflow" OFF: PV operates at maximum output; if load is low, storage power is 0. 4 . PV Uncontrolled – Priority Load (Time Period): - Charging period: Storage attempts to increase charging power by the Adjusting Step Size, observing grid meter data; charging power will not exceed the upper limit. - Discharging period: With the set discharge power as the upper limit, EMS maintains grid port power = tolerance, and gradually reduces storage discharge power by the Adjusting Step Size until 0; storage will not charge during discharge periods. - Idle period: EMS controls storage at 0 power. 5 . PV Uncontrolled – Priority Load: Applied when EMS cannot communicate with PV inverters (PV inverters must have their own anti-backflow function). EMS adjusts its own charge/discharge power based on Adjusting Step Size and observes changes in grid meter data to determine whether PV has reached its maximum output at that moment. 2) DC Connection: 6 . PV (MPPT): - With anti-backflow enabled: MPPT powers the load first, surplus charges the storage. When storage is full or empty, PV generation is limited. - With anti-backflow disabled: MPPT powers the load first, surplus charges the storage. When storage is full, output is limited according to the set allowable reverse power limit.
5	Photovoltaic inverters type	Huawei
6	Photovoltaic inverters	Number of PV inverters connected to the system

No.	Item	Description
	number	
7	Connection device type	- Direct Connected Inverter - Photovoltaic Uncontrollable, Directly Connected to the Electricity Meter

4.4.2 Photovoltaic Period

Figure 4-7 Photovoltaic Period Page



Table 4-3 Photovoltaic Period Page

No.	Item	Description
1	Top Bar	- Displays the system name. - Language Switch Dropdown: Allows for multi-language switching. - Theme Switch Dropdown: Allows switching between Light and Dark themes. - Displays the current date and time. - Displays core data, system status, system mode, and SOC percentage.
2	Side Navigation Bar	Contains icon buttons (Home, System Info, BMS, Cabin, Fault and Alarm, Historical Data, Settings) for page navigation.
3	Time Period Strategy	Displays all time period strategies. - Click "1" to view details of this time period strategy. - Click "2" to add a new time period strategy. - Click "3" to delete this time period strategy. - Click "4" to confirm issuing the PV time period.

4.5 Peak To Valley Settings

Figure 4-8 Peak To Valley Settings



Peak To Valley Settings Procedure:

Step 1: Issue Peak Cut Mode. For details, please refer to 4.1.1.

Step 2: Set Electricity Prices for Different Periods. When the system is equipped with a billing meter and establishes communication with the EMS, set the electricity prices for each period to calculate electricity costs under Peak Cut mode.

Step 3: Issue Electricity Prices for Each Period to the System.

Step 4: Set Peak To Valley period.

Set the Start Time, End Time, Peak Valley State (Peak, Normal, Valley, Sharp, Peak&Sharp), Operation Mode (Peak Cut, Expansion), Condition (Charge, Discharge) and Power as per actual needs.

Click "5" to add a new period for configuration.

Click "6" to delete the current period.

Click "7" to issue the settings to the system and complete the period configuration.



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