



# SUNSYNK CONNECT

Data Logger



## USER MANUAL

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v.12 (09/07/24)



**PLEASE RETAIN FOR  
FUTURE REFERENCE**

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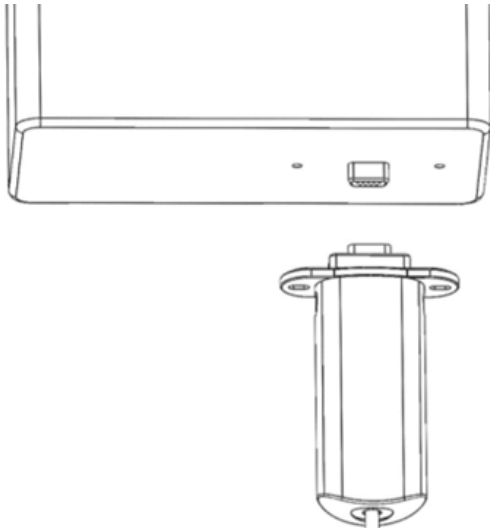
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# INSTALLATION

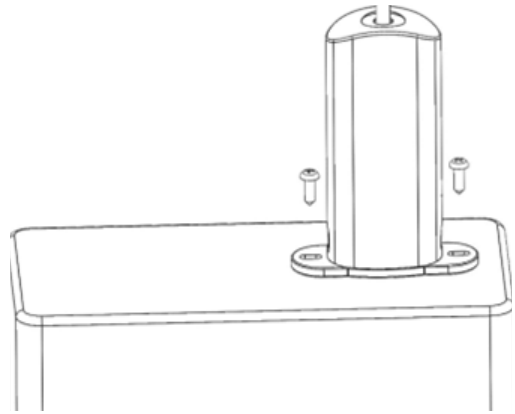
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## Data Logger Installation

**1** Insert the Data Logger into the DB9 interface of the inverter, as shown in the following figure.

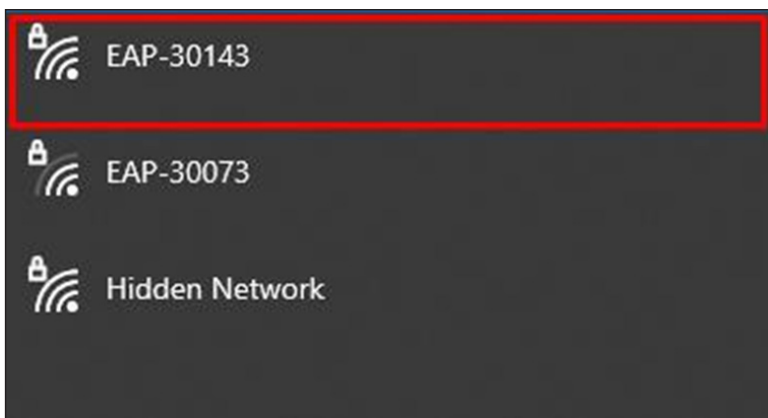


**2** Insert the two screws that come with the Data Logger through the holes, and then tighten them with a Phillips screwdriver, as shown in the figure below.

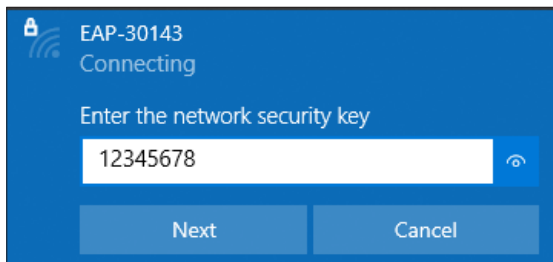


## Connecting To Wi-Fi

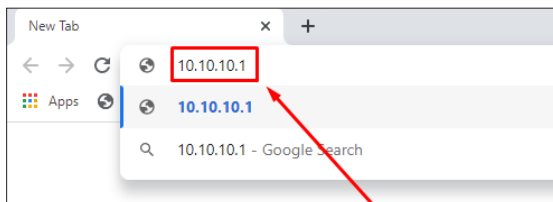
To connect the data logger to the Wi-Fi you need to go to the Wi-Fi setting on your device and search for it. You will see an available connection with the SSID 'EAP-\*\*\*\*\*' (\*\*\*\*\* are the last 5 digits of the serial number on the data logger).



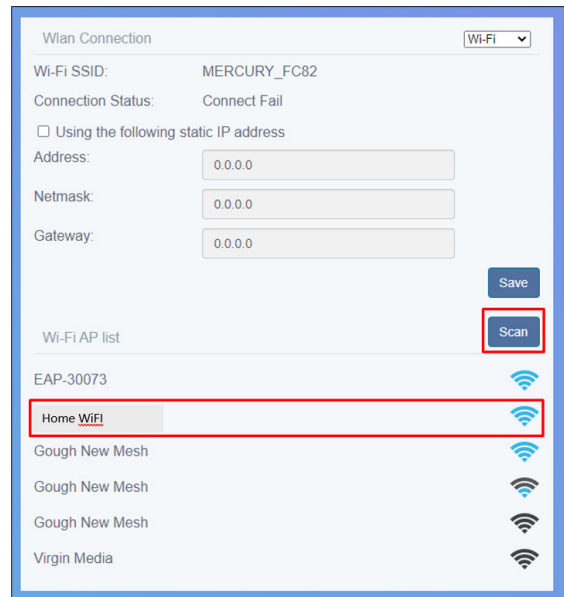
- 1 Select the correct connection and then enter the password 12345678.



- 2 Once you have connected to the EAP connection, you need to connect it to your own Wi-Fi. To do this, open the Internet browser and search the IP address 10.10.10.1.



- 3 Once connected, click 'Scan' to search the Wi-Fi List and you should then see your Wi-Fi connection.

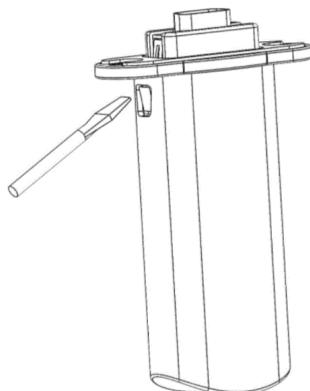


- 4 Select your Internet / Wi-Fi connection, enter your password, and click 'Connect'.

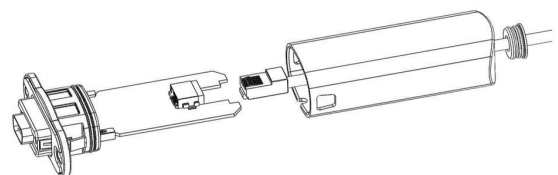
- 5 Once your data logger is connected to your Wi-Fi, you can then disconnect from the data loggers EAP connection and connect back to your usual Wi-Fi connection.

## Network Cable

- 1 Use a flat-blade screwdriver to press the buckles on the left and right sides of the shell, as shown in the following figure. Then extract the DB9 interface part manually.



- 2 Pass the network cable through its specific hole at the bottom of the shell. Then, insert the RJ45 plug into the RJ45 socket, and place the sealing plug with the hole on the network cable, as shown in the figure below.



# ACCOUNT MANAGEMENT

## Registration

**1** Visit <https://sunsynk.net> in your browser to access the web version of the management tool. Click on 'Sign Up' on the Login page to proceed to the Registration page.

Log into your account

Please enter your e-mail

Please enter your password

Login

Sign Up

Forgot Password

**2** Enter a valid email address to receive a verification code. Complete the registration form by setting a password, checking the user agreement box to confirm agreement, and then click 'Agree and Register'.

Register

Please input your E-mail

Verification Code

Get Code

Enter 6 to 16-digits password

Please re-enter password

I have read and agreed to the Terms & Privacy Policy [User Agreement](#)

Agree and register

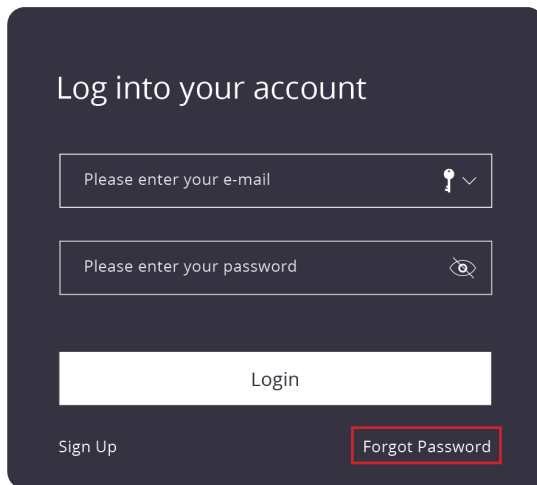
Already have an account? [Login](#)

## Requesting User Level Access Change

If you are an installer who has registered on the Sunsynk Connect platform, you may initially have a basic user account with limited permissions. To request elevated user access for parameter changes, remote inverter upgrades, and other functions, please visit <https://www.sunsynk.org/remote-monitoring> and complete the form provided.

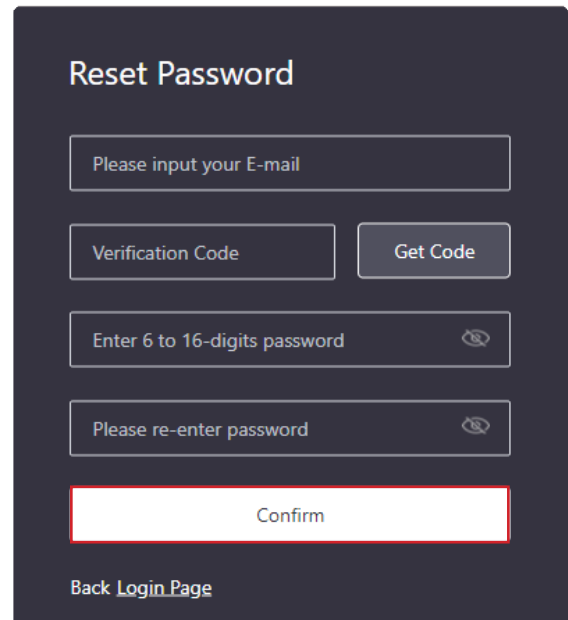
# Forgot Password

**1** On the Login page, click 'Forgot Password' located at the lower right corner to proceed to the Reset Password page.



The screenshot shows a dark-themed login form titled "Log into your account". It contains two input fields: "Please enter your e-mail" with a key icon and "Please enter your password" with an eye icon. Below these is a "Login" button. At the bottom left is a "Sign Up" link, and at the bottom right is a "Forgot Password" link highlighted with a red box.

**2** Enter your registered email address to receive a verification code. Enter the code, choose a new password, and click 'Confirm' to finalize the password reset.



The screenshot shows a dark-themed "Reset Password" form. It includes an input field for "Please input your E-mail", a "Verification Code" input field, and a "Get Code" button. Below is an input field for "Enter 6 to 16-digits password" with an eye icon, followed by a "Please re-enter password" input field with an eye icon. A "Confirm" button is highlighted with a red box. At the bottom is a "Back Login Page" link.

# PLANT MANAGEMENT

## Creating a Plant

**1** Navigate to the menu and click on 'My Plant', then select 'Plant List'.

**2** To initiate a new plant setup, click on 'Create a Plant' located in the right of the page.

The screenshot shows the SUN SYNK CONNECT dashboard. On the left is a navigation menu with 'My Plants' selected. The main area is divided into two statistics sections: 'Plant Status Statistics' and 'Inverter Status Statistics'. Below these is a 'Plant List' section with a 'Create Plant' button. A table lists several 'Virtual power station' entries with columns for Status, Plant, Power(kW) - Efficiency, Today(kWh), Total(kWh), Last update, and More.

Status	Plant	Power(kW) - Efficiency	Today(kWh)	Total(kWh)	Last update	More
⚪	Virtual power station	0.0 0.0%	0	0	8 days ago	...
⚪	Virtual power station	0.0 0.0%	0	0	3 minutes ago	...
⚪	Virtual power station	0.5 0.0%	11.9	213.8	3 minutes ago	...
⚪	Virtual power station	6.1 55.3%	21.1	1823.8	a few seconds ago	...
⚪	Virtual power station	1.5 33.2%	8.8	737.9	4 minutes ago	...
⚪	Virtual power station	1.8 22.5%	6.5	6226.4	a minute ago	...
⚪	Virtual power station	0.0 0.9%	0	1053.8	a few seconds ago	...

**3** Enter the Serial Number (SN) and KEY from the Data Logger label, then click 'Next'.

The screenshot shows the 'Create Plant' form. It has a progress bar with four steps: 'Add Device', 'Plant Info.', 'Revenue Info.', and 'Contacts'. The 'Plant Info.' step is active. Below the progress bar, there are two input fields: '\* SN Please input' and '\* Key Please input'. A red box highlights these fields and a QR code label. The label contains the following information: 'Wi-Fi Stick', 'P/N: EGEG-0009-A5', 'S/N: E4501\*\*\*001', 'KEY: QDR8 \*\*\* WHNV BYAY', and 'Chengdu E-LINTEK Information Technology Co., Ltd.'.

**4** Specify the total capacity in the 'Capacity' field and choose the appropriate 'Plant Type'. Note that different types of plants will display different information on the page. To ensure accurate plant statistics, complete all required fields accurately.

**5** Enter the installation address of the plant in the address input box on the map to pinpoint the exact location, or use the map to select the correct installation site.

**6** Verify and adjust the plant's time zone if necessary. Click 'Next' to proceed.

The screenshot shows the 'Create Plant' form with three red boxes highlighting specific sections:

- Step 4:** A red box around the 'Plant Name', 'Capacity', 'Commissioning Date', and 'Installer' fields. The 'Capacity' field has '1000' entered. There is also an 'Upload picture' button with a plus sign and a note: 'Upload picture. The file format must be JPG, PNG, PNG, and size can not exceed 50MB'.
- Step 5:** A red box around a map of the Liverpool area. A search bar at the top left of the map contains 'Please input Address'. Below the map, the coordinates are '-2.715839, 53.370591' and the address is '60 Frank St, Widnes WA8 0AH, UK'.
- Step 6:** A red box around the 'Time Zone' dropdown menu, which is currently set to 'UTC+04:00:Amman,Libya,Lebanon', and a checkbox labeled 'Check whether the selected time zone is correct'.

Navigation buttons 'Back' and 'Next' are visible at the bottom right of the form.

**7** Select your currency, specify the total investment, and choose your preferred Valuation Method. **Note:** The Live Price option is currently available only for UK customers.

The screenshot shows the 'Create Plant' form with a red box highlighting the 'Revenue Info' section:

- Step 7:** A red box around the 'Currency' dropdown menu (set to '\$'), the 'Total Investment' input field (with '\$' as a suffix), the 'Valuation Method' radio buttons (with 'Constant Price' selected), and the 'Please input' field (with '\$/kWh' as a suffix).

Navigation buttons 'Back' and 'Next' are visible at the bottom right of the form.



**8** Provide the name, phone number, and email address of the user responsible for managing the system.

## Adding a Device

**1** In the menu, first click 'My Plant', then 'Plant List'.

**2** Select the plant that need to add equipment from the 'Plant List'.

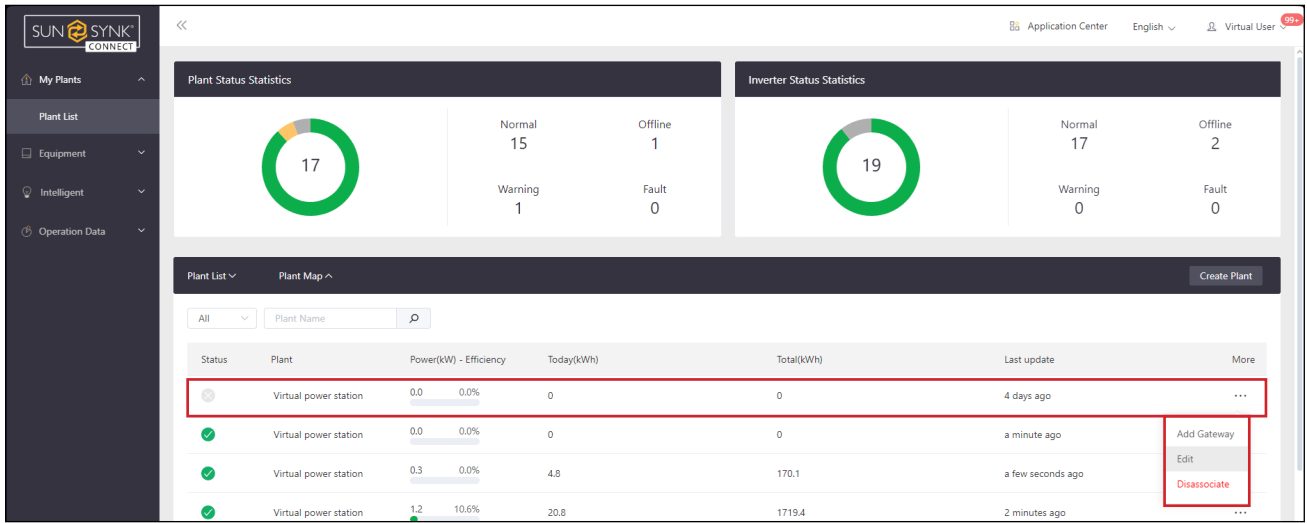
**3** Click the 'More (...)' button and Select 'Add Gateway'.

Status	Plant	Power(kW) - Efficiency	Today(kWh)	Total(kWh)	Last update	More
⊗	Virtual power station	0.0 0.0%	0	0	4 days ago	⋮
⊙	Virtual power station	0.0 0.0%	0	0	a minute ago	⋮
⊙	Virtual power station	0.3 0.0%	4.8	170.1	a few seconds ago	⋮
⊙	Virtual power station	1.2 10.6%	20.8	1719.4	2 minutes ago	⋮

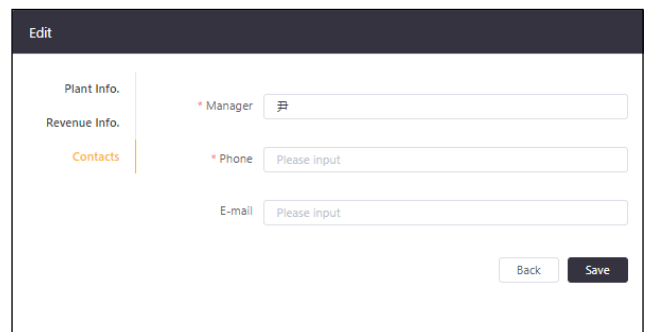
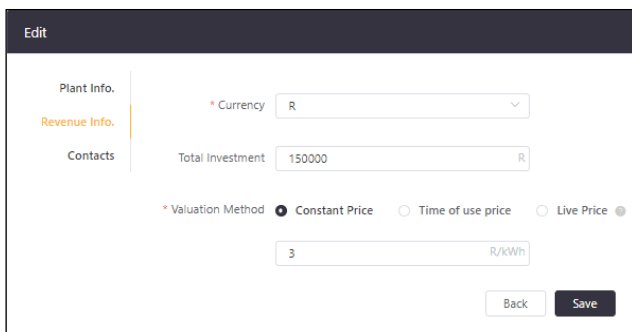
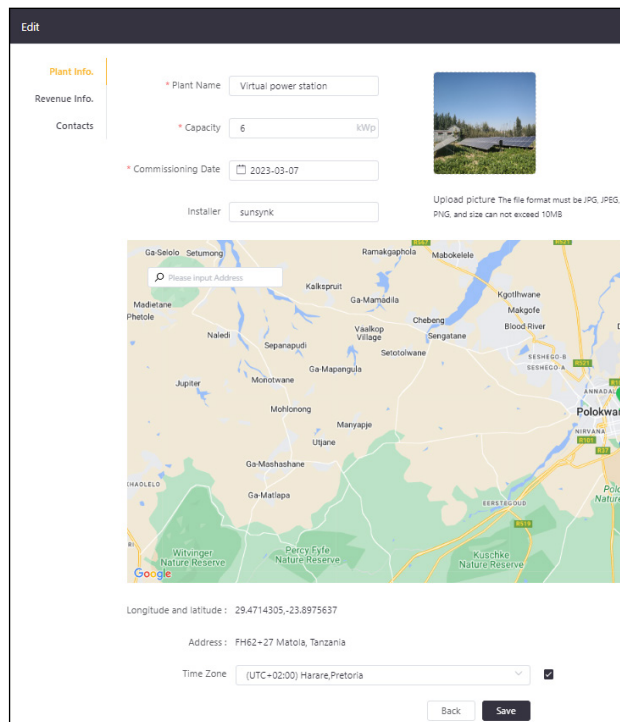
**4** Input the serial number SN and key of the Data Logger to be connected, then click 'Confirm'.

# Editing a Plant

- 1 In the menu, first click 'My Plant', then 'Plant List'.
- 2 Select the plant that need to be edited from the 'Plant List'.
- 3 Click the 'More (...)' button and select 'Edit'.

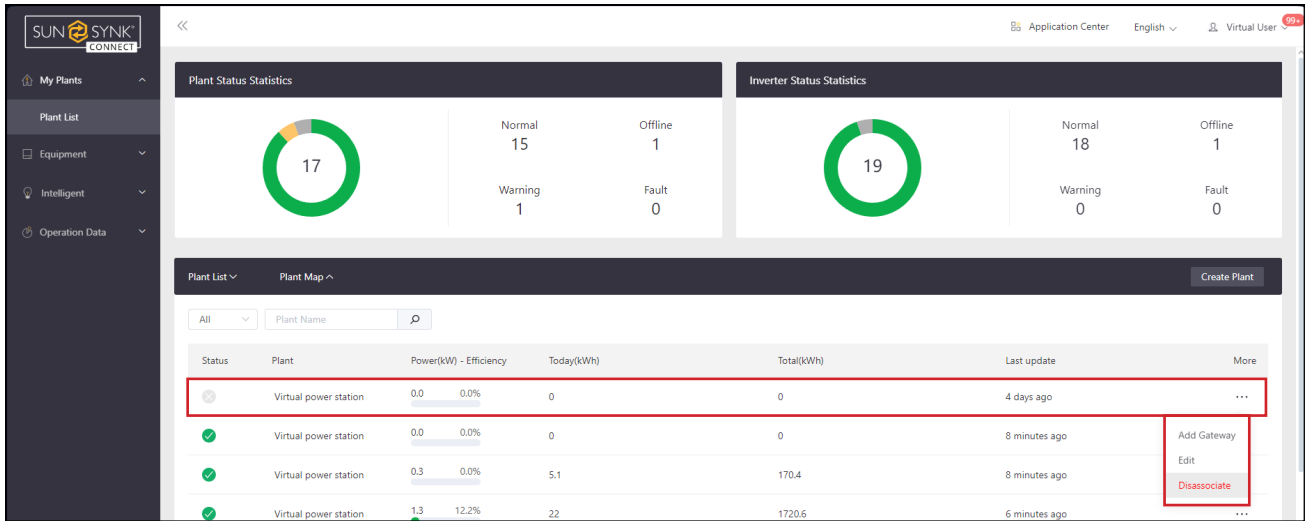


- 4 Review and make edits to any previously entered information as needed.



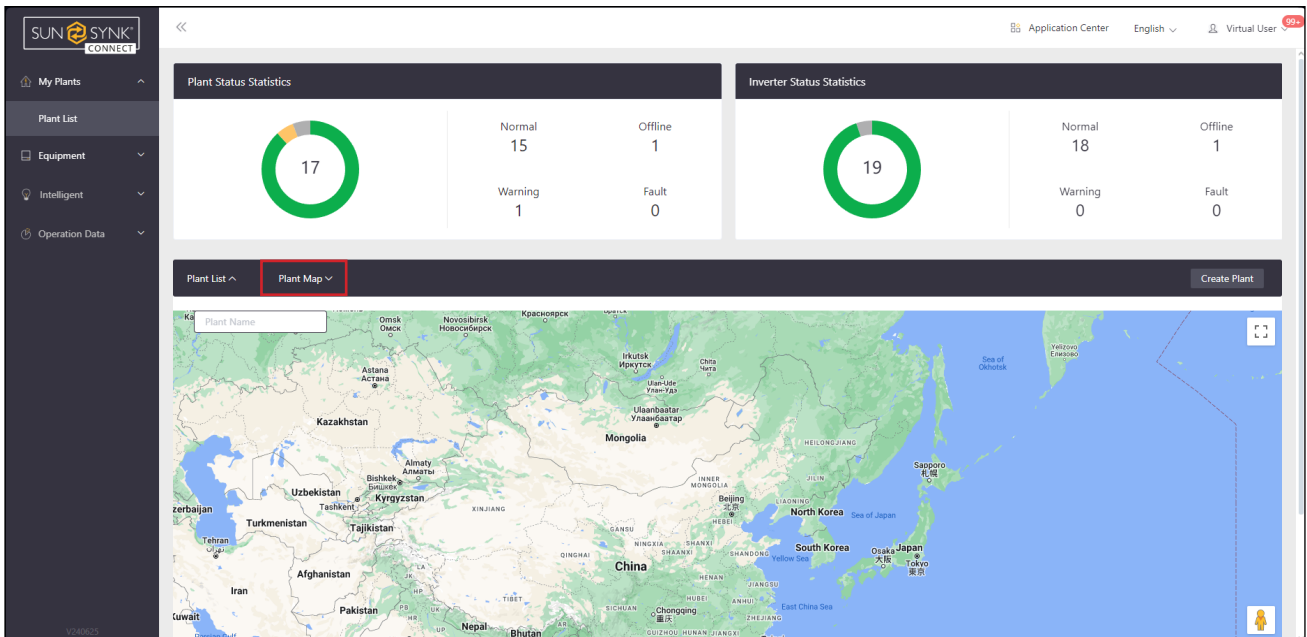
# Disassociate a Plant

- 1 In the menu, first click 'My Plant', then 'Plant List'.
- 2 Select the plant that need to be disassociated from the 'Plant List'.
- 3 Click the 'More (...)' button and Select 'Disassociate'.



# Plant Map

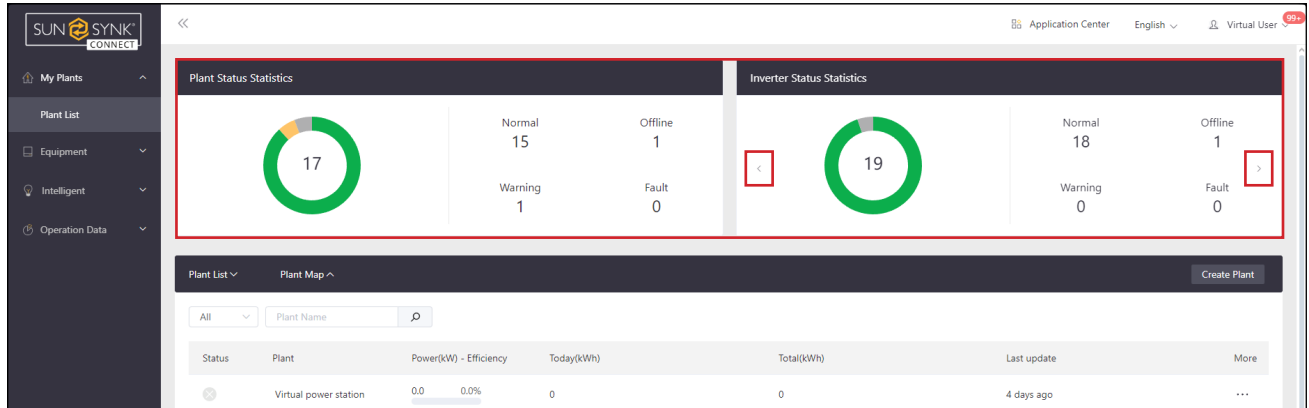
- 1 In the menu, first click 'My Plant', then 'Plant List'.
- 2 Click 'Plant Map'. A map with the listed plants will be displayed.



# Inverter Statistics

1 In the menu, first click 'My Plant', then 'Plant List'.

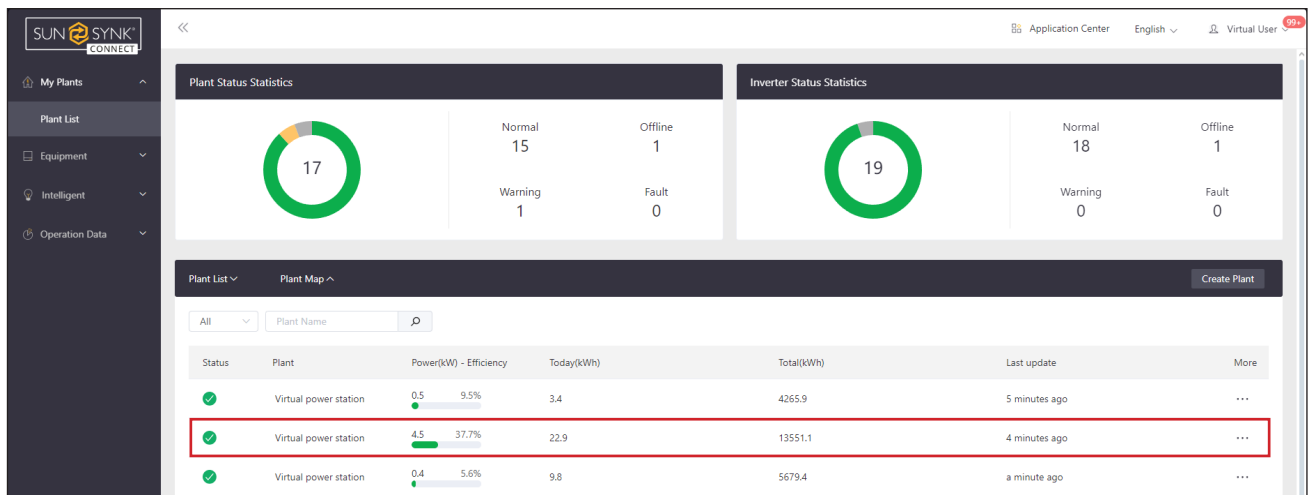
2 Use the < or > icons to view detailed information about any abnormalities in the inverters over the last hour, as shown in the following figure.



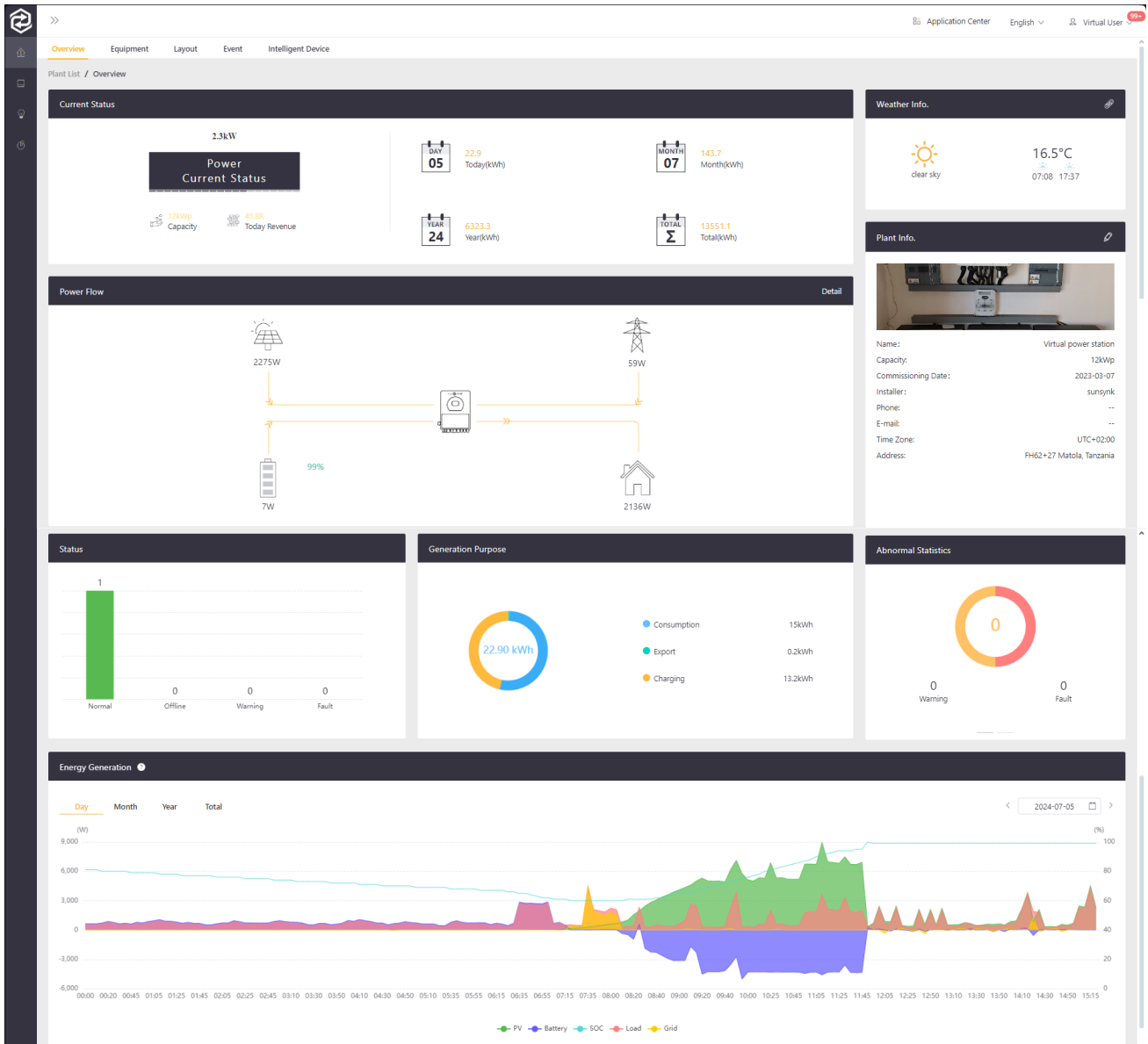
# Plant Overview

1 In the menu, first click 'My Plant', then 'Plant List'.

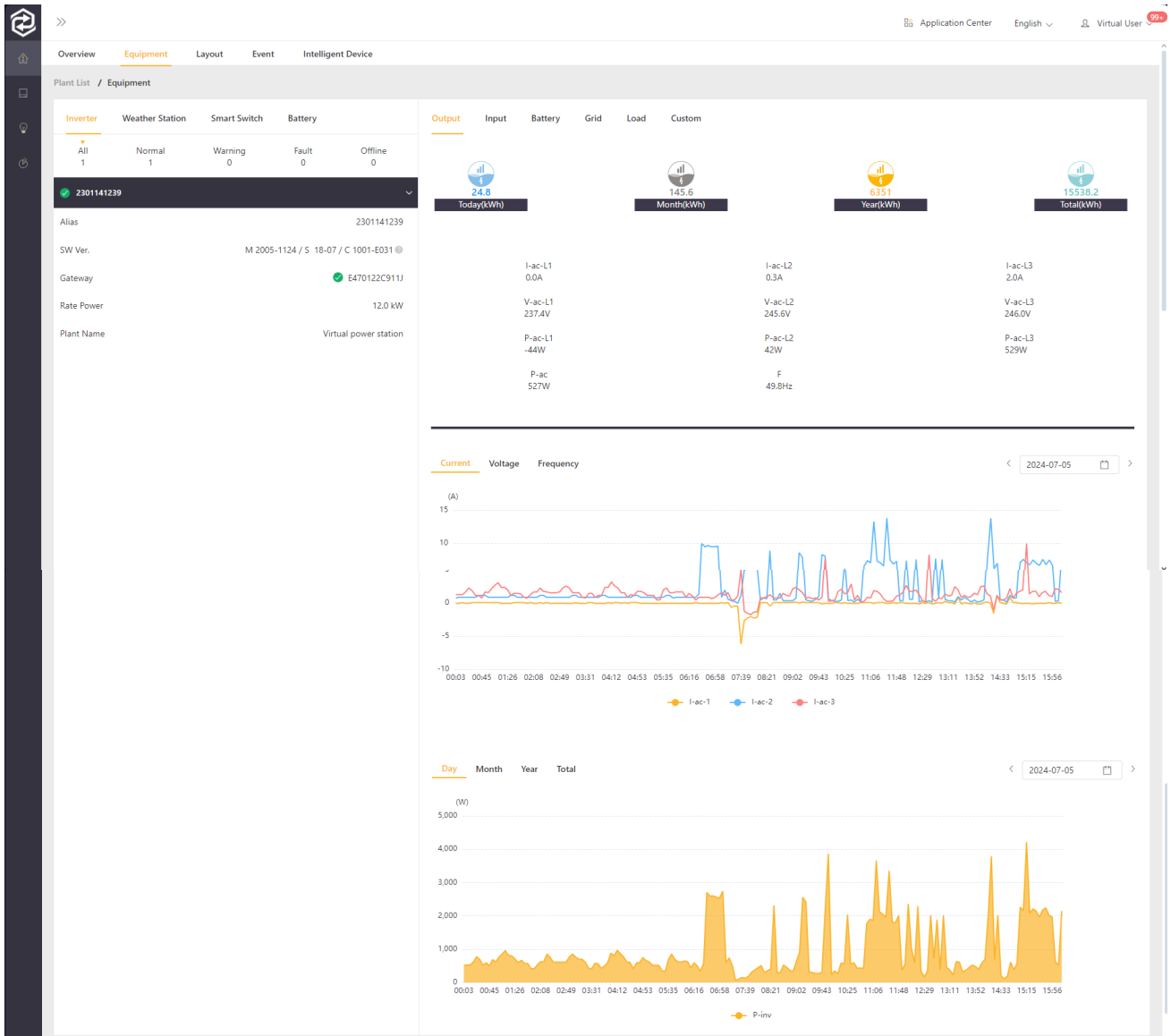
2 Select plant list 'Plant List' and click the corresponding plant name to enter the plant Overview page.



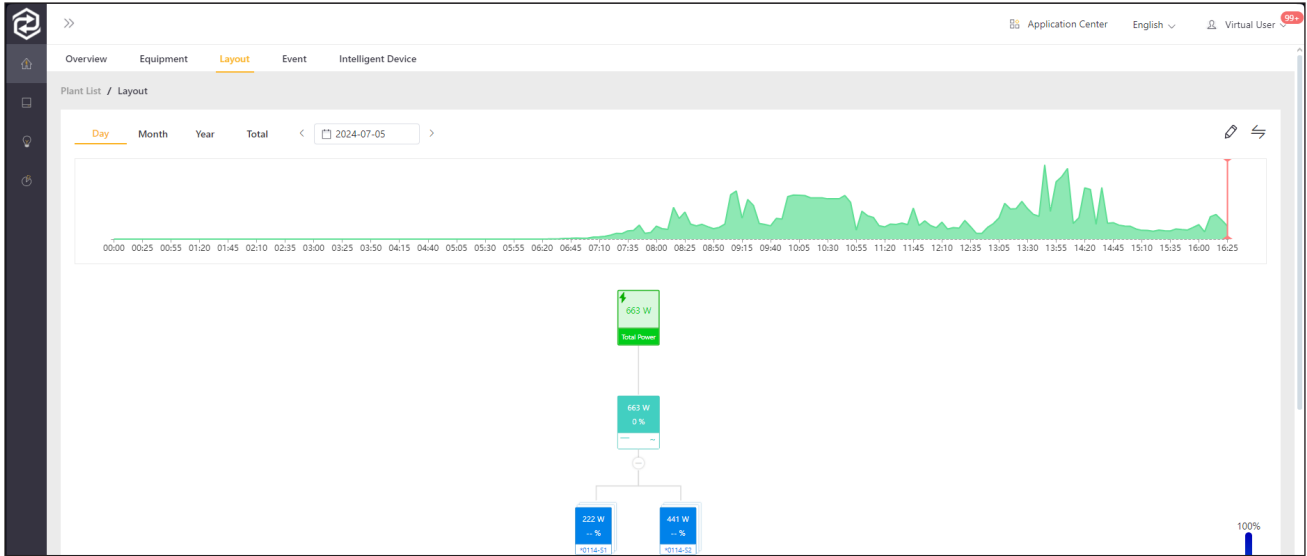
**3** On the Plant Overview page, you can monitor the plant's status, weather conditions, energy flow diagram, inverter status, recent abnormalities, power generation charts, and other relevant information (as illustrated on the next page).



4 Click on 'Equipment' within the Overview page to access detailed information about all equipment installed in the plant. Here, you can view operational data charts, perform remote upgrades, adjust parameter settings, and manage other operations.



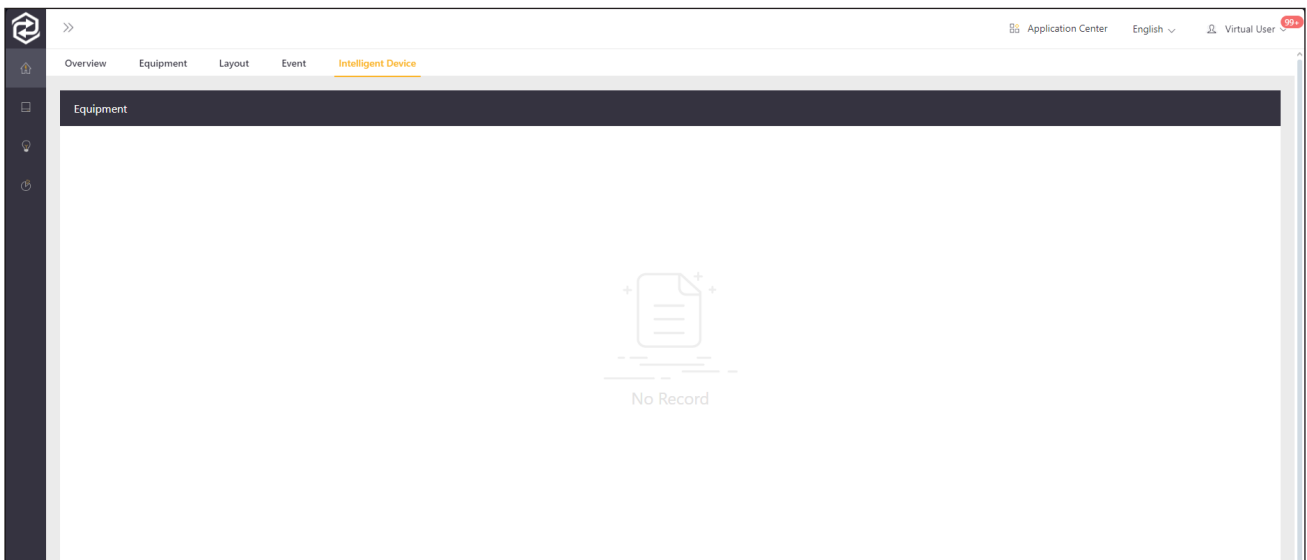
5 On the Plant Layout page, you can monitor the plant's layout.



6 Navigate to the 'Event' menu on the Plant Overview page to switch to the Event page. Here you can view the current plants abnormal information.

The screenshot shows the 'Event' page. At the top, the navigation tabs are Overview, Equipment, Layout, Event (selected), and Intelligent Device. Below the tabs, there's a 'Plant List / Event' header. The main content area is titled 'Event' and contains a search filter with 'Inverter' selected, 'All' for the status, and a date range from '2024-06-29' to '2024-07-05'. There is also a field for 'Please input SN'. Below the search filters is a table with the following columns: Type, SN, Time, and Description. The table currently displays 'No Data'. At the bottom of the page, there are indicators for 'Warning' (yellow circle) and 'Fault' (red circle), and a pagination control showing '1'.

7 On the Plant Intelligent device...

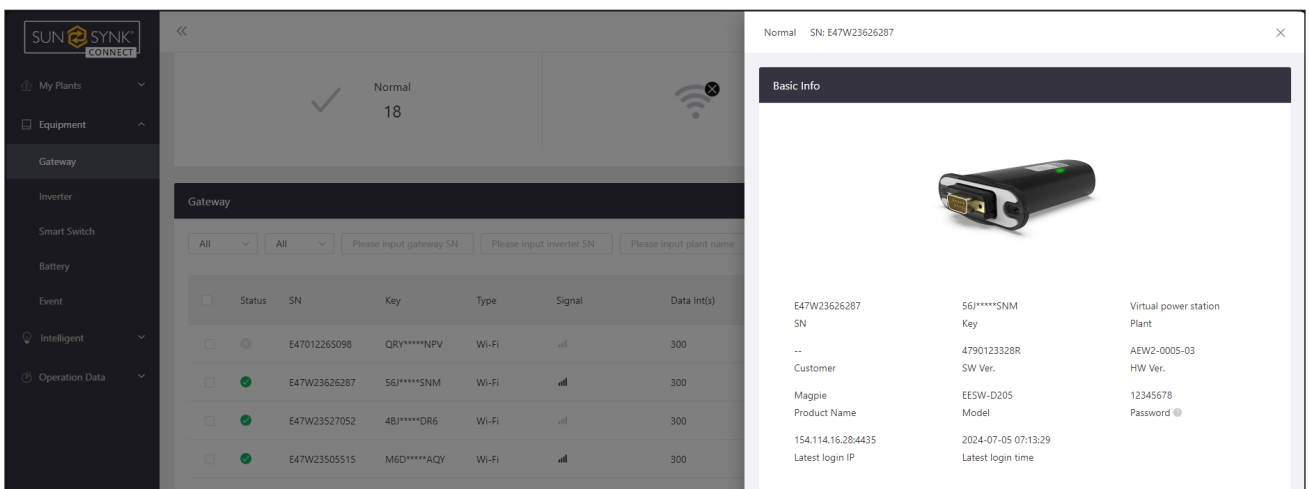
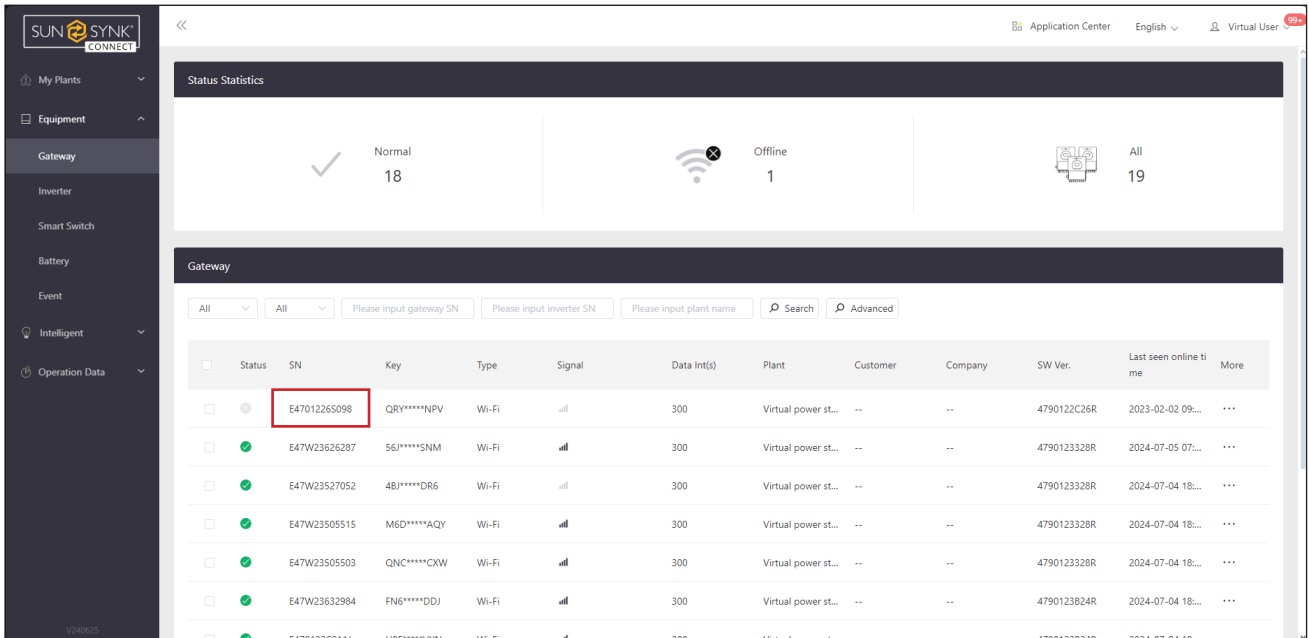


# EQUIPMENT

## Gateway Management

**1** In the menu, click 'Equipment', then 'Gateway' to enter the Gateway List page.

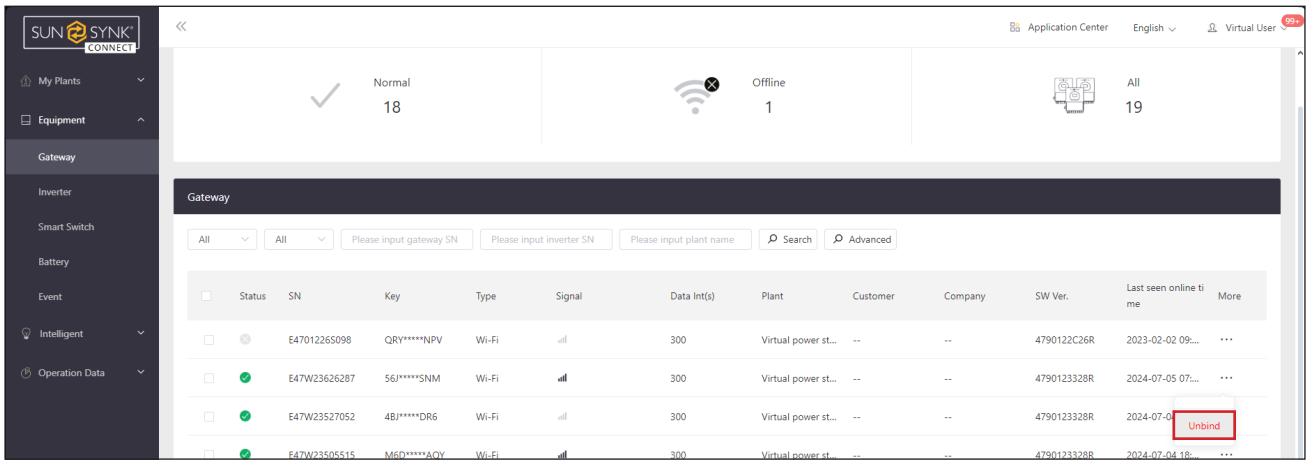
**2** In the Gateway List page, click on the 'SN' of a gateway to view the detailed information of the Data Logger.



If you need to remove the gateway from a power station, you need to unbind the gateway from the plant where it is located. The specific operation is as follows:

1. Select the gateway to be unbound on the Gateway List page.
2. Click the more button '(...)' and select 'Unbind' in the popup menu.
3. Follow the prompts to complete the unbind operation, as shown in the following figure.

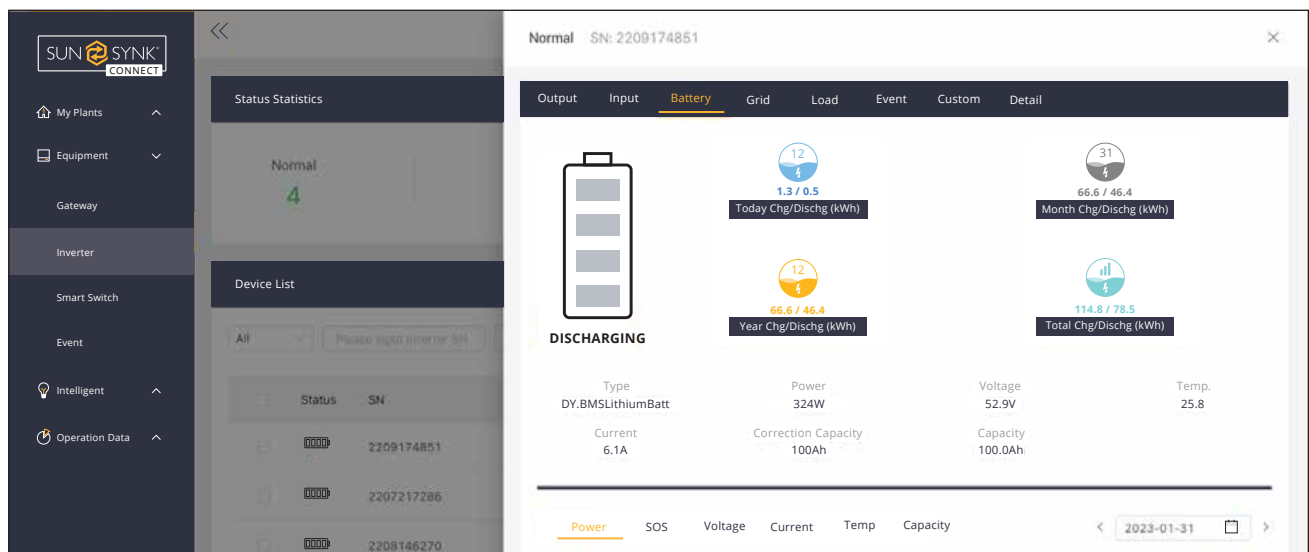
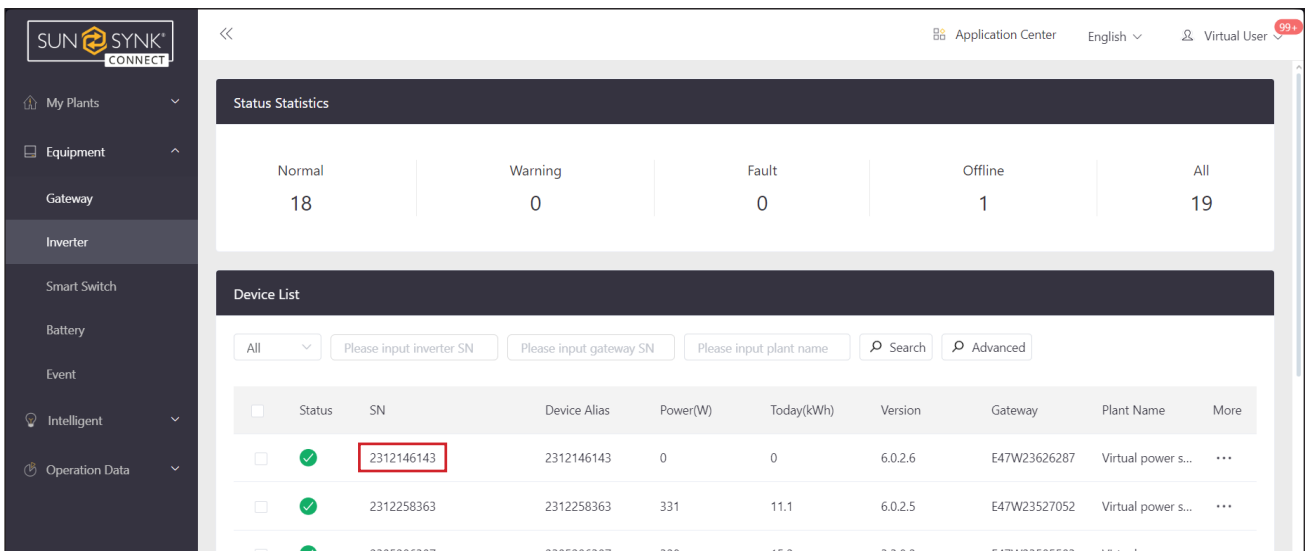




## Inverter Management

**1** In the menu, click 'Equipment', then 'Inverter' to enter the Inverter List page.

**2** In the Inverter List page, click on the SN of an inverter to view the detailed information and operational data of the inverter.



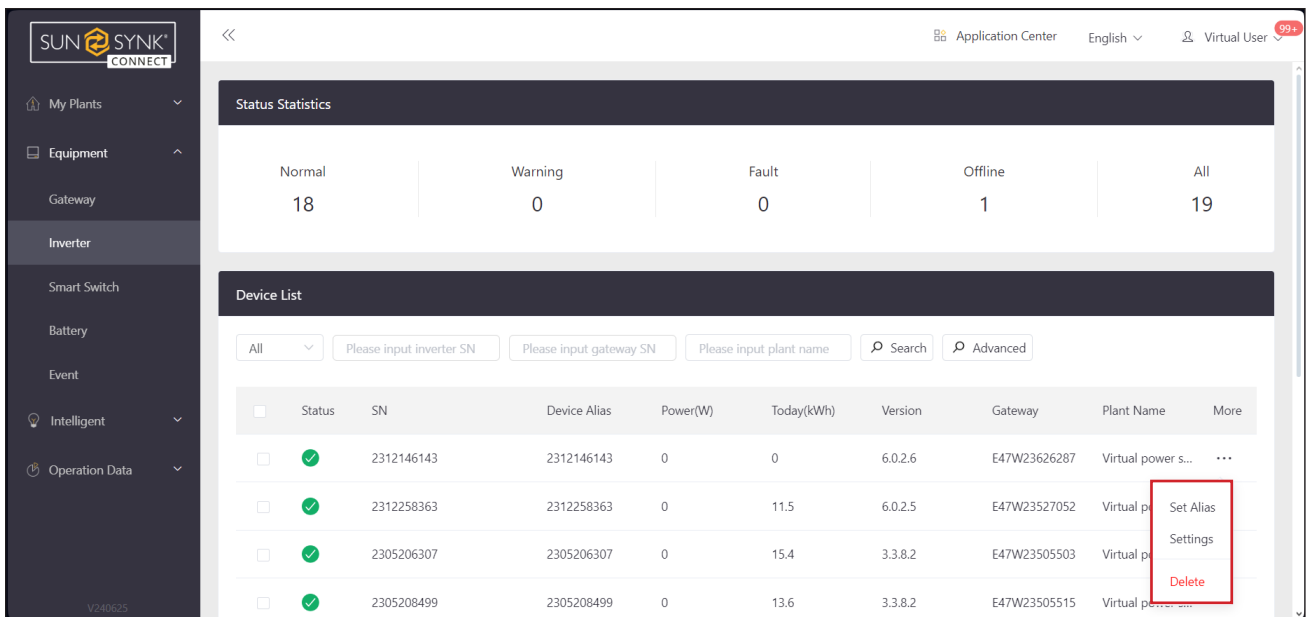
### 3 Click on the plant name to enter the plant of the inverter.

The screenshot shows the SUN SYNK CONNECT interface. On the left is a navigation menu with options: My Plants, Equipment, Gateway, Inverter (selected), Smart Switch, Battery, Event, Intelligent, and Operation Data. The main area is titled 'Status Statistics' and shows a table with columns: Normal (18), Warning (0), Fault (0), Offline (1), and All (19). Below this is the 'Device List' section with search filters for inverter SN, gateway SN, and plant name. A table lists four devices with columns: Status, SN, Device Alias, Power(W), Today(kWh), Version, Gateway, Plant Name, and More. The first device's plant name 'Virtual power s...' is highlighted with a red box.

Status	SN	Device Alias	Power(W)	Today(kWh)	Version	Gateway	Plant Name	More
✓	2312146143	2312146143	0	0	6.0.2.6	E47W23626287	Virtual power s...	...
✓	2312258363	2312258363	331	11.1	6.0.2.5	E47W23527052	Virtual power s...	...
✓	2305206307	2305206307	328	15.2	3.3.8.2	E47W23505503	Virtual power s...	...
✓	2305208499	2305208499	177	13.5	3.3.8.2	E47W23505515	Virtual power s...	...

The screenshot shows the 'Overview' page for a plant. It features a 'Current Status' section with a 'Power Current Status' card showing 2.3kW. Below this are cards for Capacity (12KWp), Today Revenue (45.8R), Today (kWh) (22.9), Month (kWh) (143.7), Year (kWh) (6323.3), and Total (kWh) (13551.1). A 'Power Flow' diagram shows power generation (2275W) from solar panels, storage (7W) in a battery at 99% charge, and consumption (2136W) in a house. A power line (59W) is also shown. On the right, there is a 'Weather Info' card showing 16.5°C and a 'Plant Info' card with details like Name, Capacity, Commissioning Date, and Address.

**4** Click the 'More (...)' button to set an alias for the device, adjust inverter settings/parameters, or delete a device, as illustrated in the figure below.

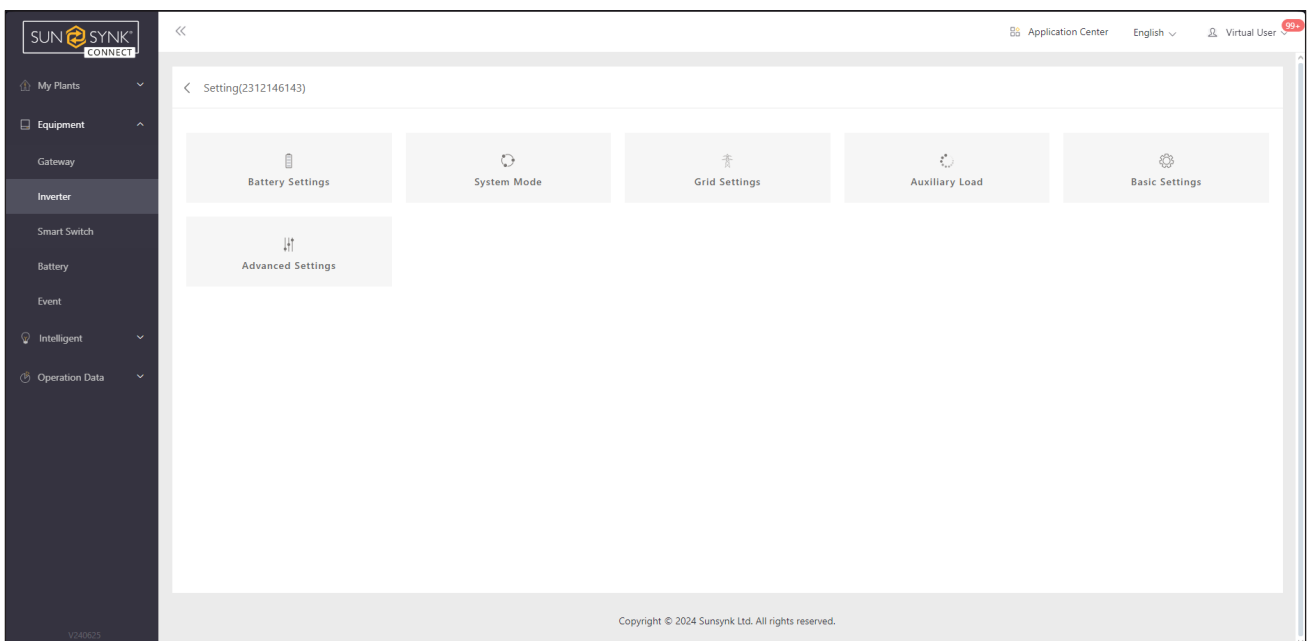


## Change Inverter Settings

**1** In the menu, click 'Equipment', then 'Inverter' to enter the Inverter List page.

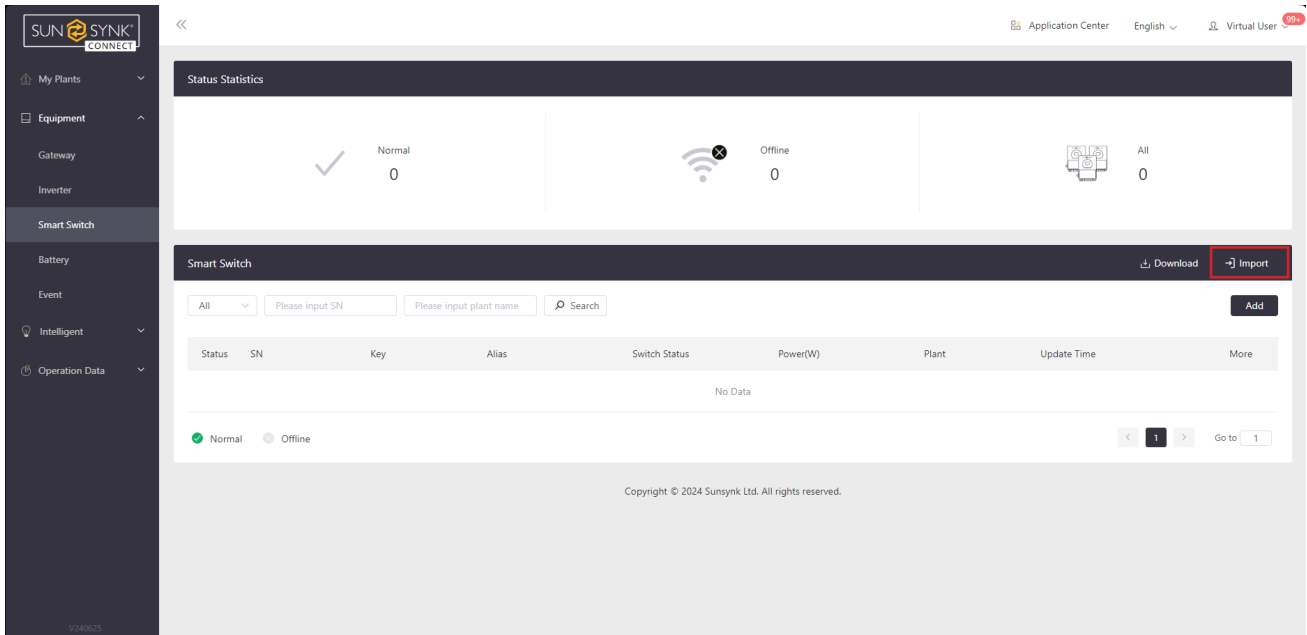
**2** In the Inverter List click More ('...'), then select the Inverter you wish to edit the settings, and click 'Settings'.

You will then have access to the settings for that inverter such as Battery Setting, System Mode, Grid Setting, Auxiliary Load, Basic Setting, Advanced Setting.



# Smart Switch

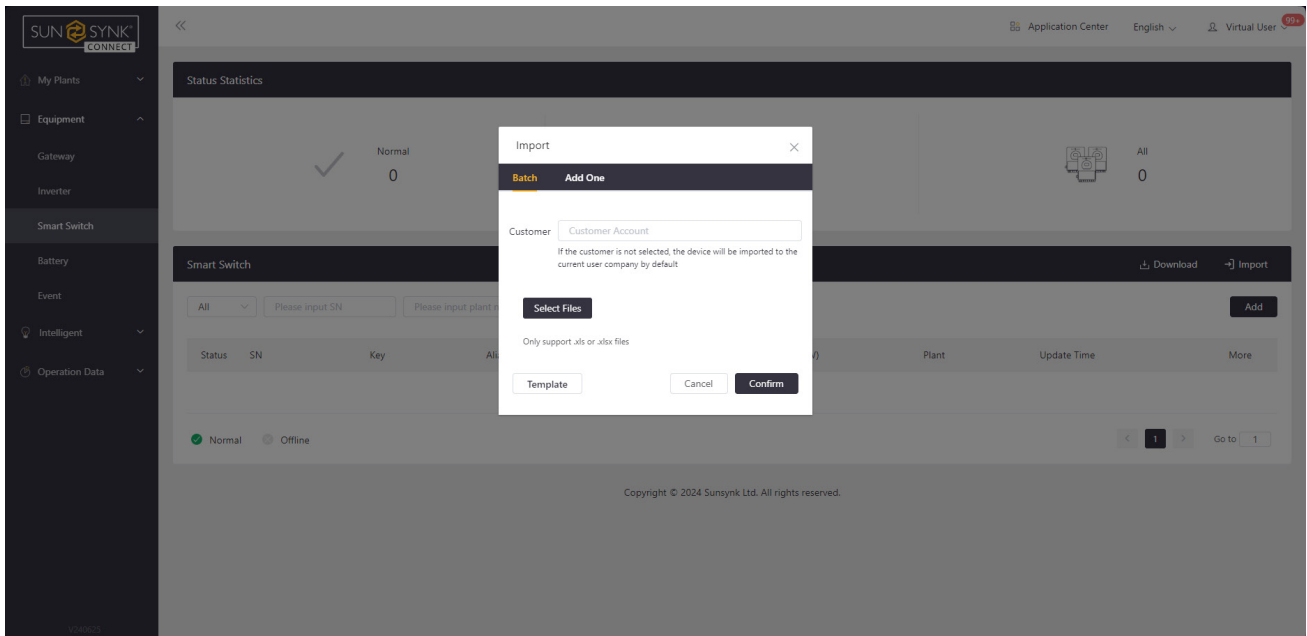
**1** In the menu, click 'Equipment', then 'Smart Switch' to enter the Smart Switch page and click the 'Import' button.



**2** Click on 'Template' to download the gateway import template. Fill in the SN and KEY for the gateway in the template and save it.

**3** Click 'Select File' to choose the saved template file containing the Data Logger information.

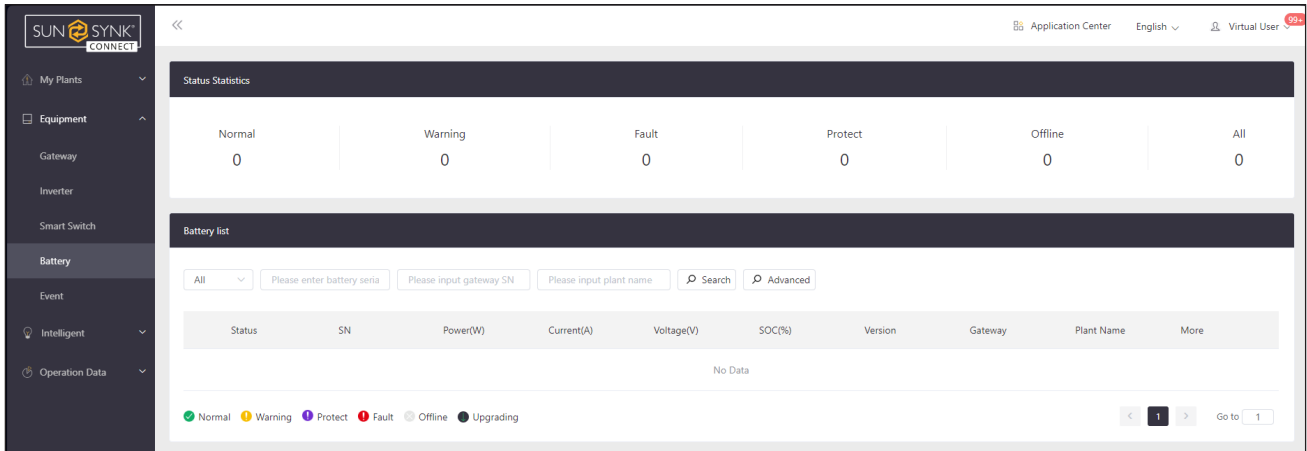
**4** Select assigned/imported customers (Dealers/Distributors) and then confirm.



# Battery Management

1 In the menu, click 'Equipment', then 'Battery' to enter the Battery List page.

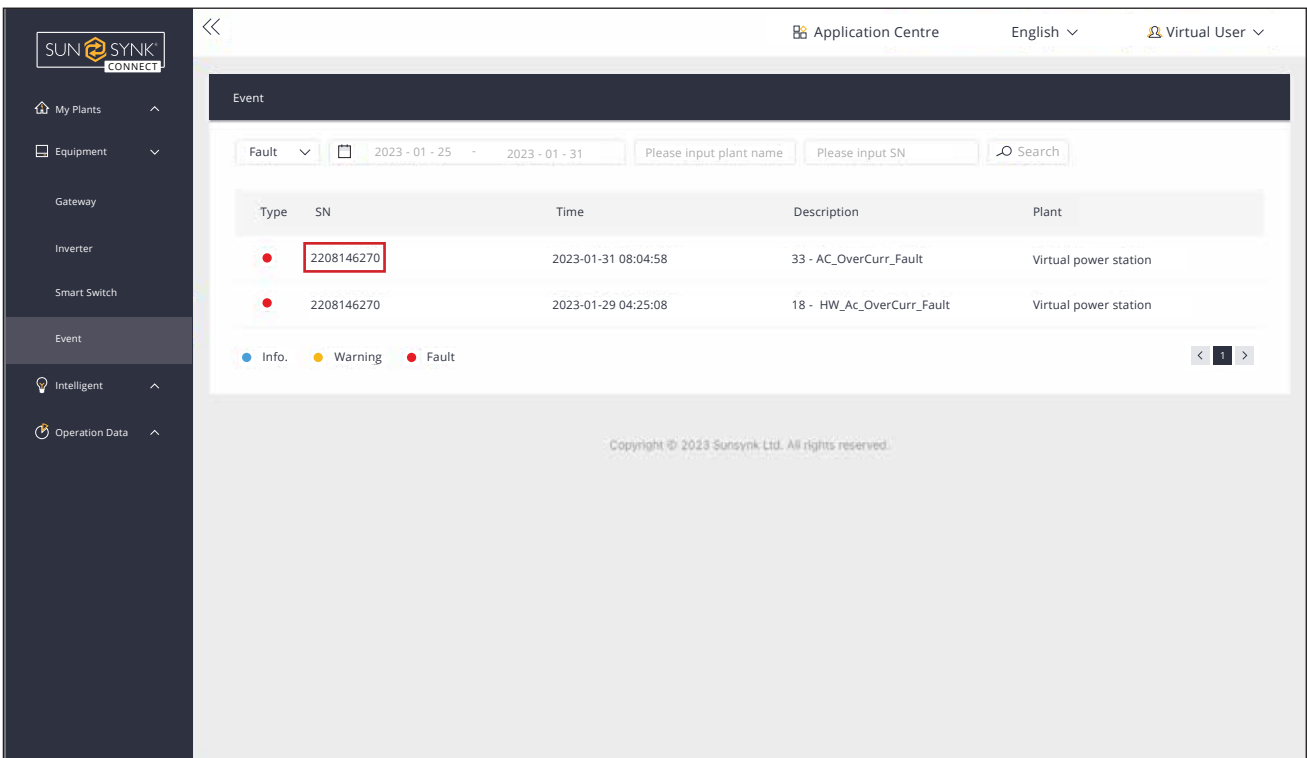
2 On the Battery List page, click on the serial number (SN) of a battery to view its detailed information and operational data.



# Event

1 In the menu, click 'Equipment', then 'Event' to enter the Event List page.

2 In the Event List page, click on the SN of an inverter to view the detailed information of the event and recent operational data.



**SUN SYNK**  
CONNECT

- My Plants ^
- Equipment v
- Gateway
- Inverter
- Smart Switch
- Event
- Intelligent ^
- Operation Data ^

Event

Fault 2023-01-27

Type: SN

2208146270

Info Warning Fault

● Fault

×

Profile

Plant: Virtual Power Station

Address: Finland

SN: -- Model: -- Installer: Virtual User

E-mail:-- Phone:--

Event Info.

Time:-- Code:--

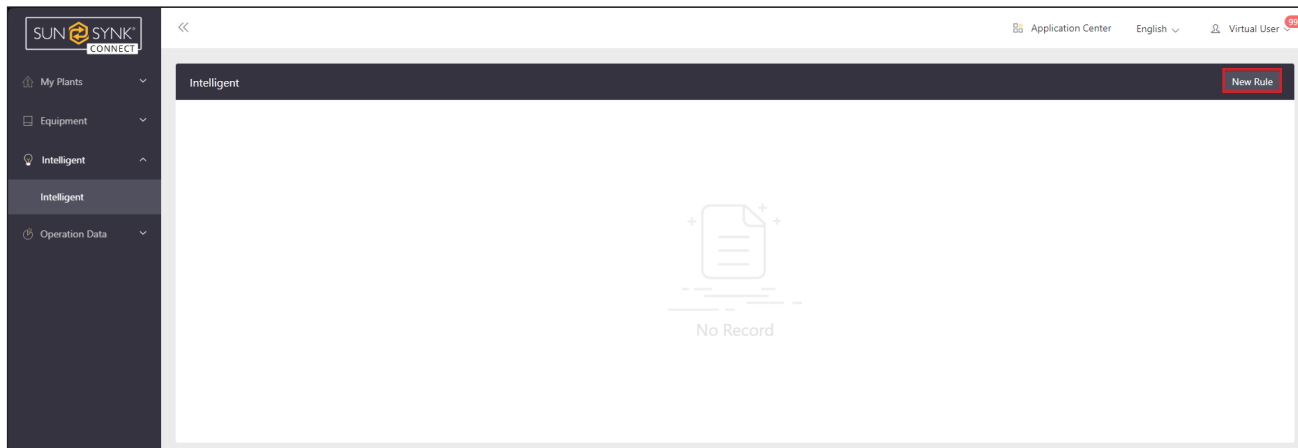
Description:-- More v

Recent Operation Data

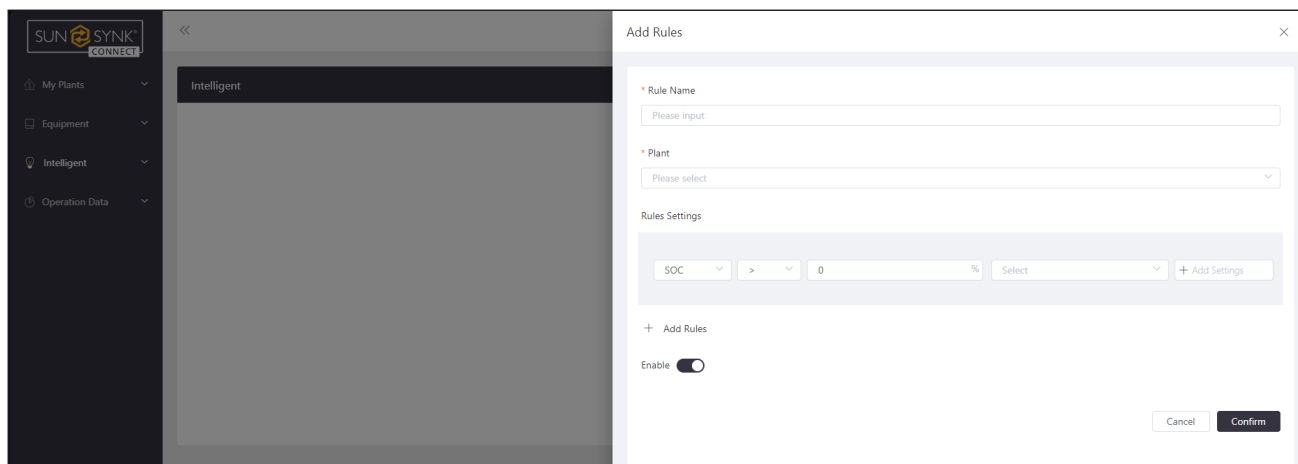
Time	MCU/14	COMM/17	ChargeVolt(V)/210	DischargeVol
Time	MCU/14	COMM/17	ChargeVolt(V)/210	DischargeVol
Time	MCU/14	COMM/17	ChargeVolt(V)/210	DischargeVol
Time	MCU/14	COMM/17	ChargeVolt(V)/210	DischargeVol
Time	MCU/14	COMM/17	ChargeVolt(V)/210	DischargeVol

# INTELLIGENT

1 In the menu, click 'Intelligent', then 'Intelligent' to enter the Intelligent List page.



2 In the Intelligent page, click on the 'New Rule' button to add a new rule.

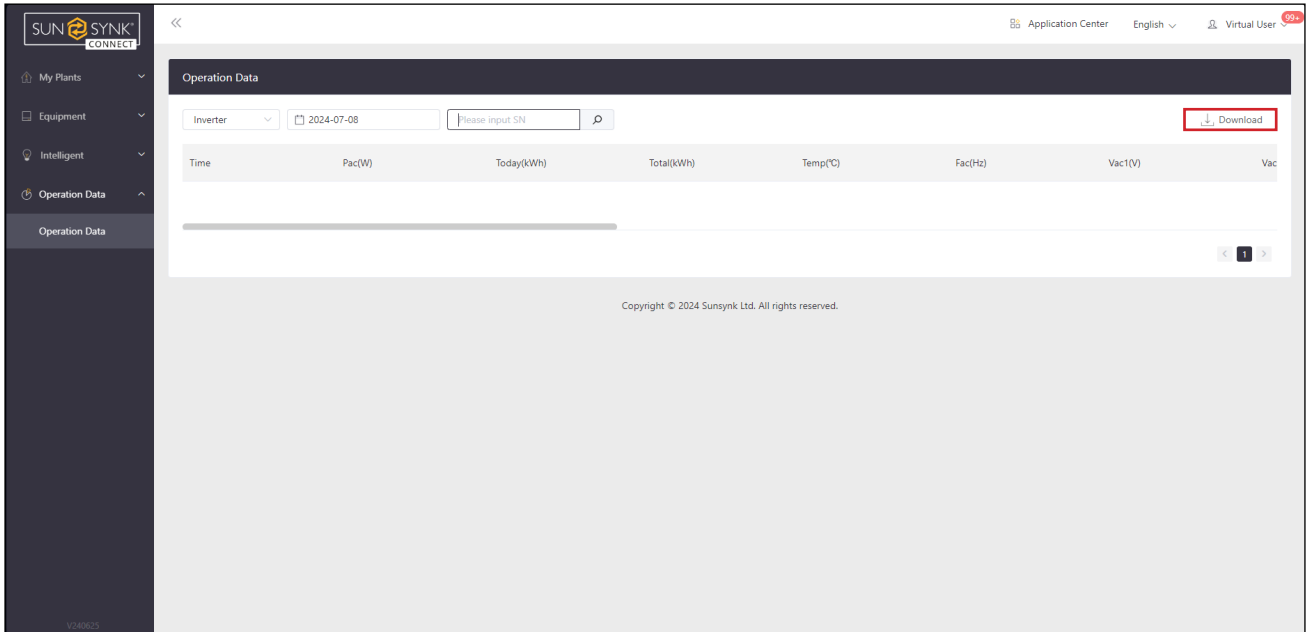


## OPERATIONAL DATA

**1** In the menu, click 'Operation Data' in the menu to enter the Operation Date page.

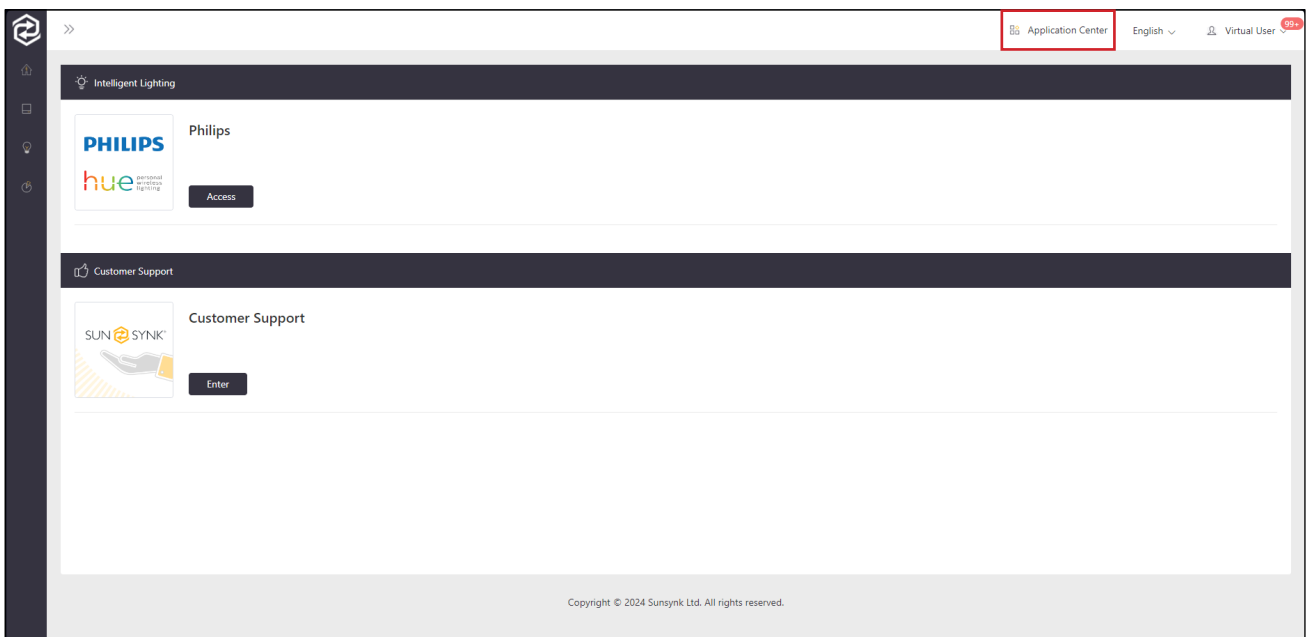
**2** Enter the inverter's serial number (SN) and select the date range to view operational data.

If you need to download the data to your local device, click the 'Download' button to save it as a file in the ".xlsx" format.



## APPLICATION CENTER

**1** In the top right corner, click on 'Application Center' to access 'Intelligent Lighting' by Philips or 'Customer Support' by Sunsynk.







## CONTACT US

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