

JBLOG

User Manual

Contents

1.About The User Manual 01
1.1 Manual description
1.2 Applicable personnel
2.Product Description 02-04
2.1 Device overview
2.2 Packing info
2.3 Function introduction
3.Installation And Connection 05-06
3.1 Installation environment
3.2 Installation method
3.3 Connect to device
4.EnerLog Internal Page Parameter Setting 07-13
4.1 IP access method
4.2 Internal page access
4.3 Datalogger status view
4.4 Add and delete device
4.5 Baud rate setting
4.6 Network communication
5.Upload Data To Server 13-16
5.1 Registration and login
5.2 Create new power plant
5.3 Add JBLOG to server
5.4 Cheek the monitoring data
6.Device Maintenance.....17
6.1 Reset JBLOG
6.2 Common faults and troubleshooting
6.3 Maintenance
7.Technical specifications 18
7.1 JBLOG Specification
Contact.....19

1 About The User Manual

1.1 Manual Description

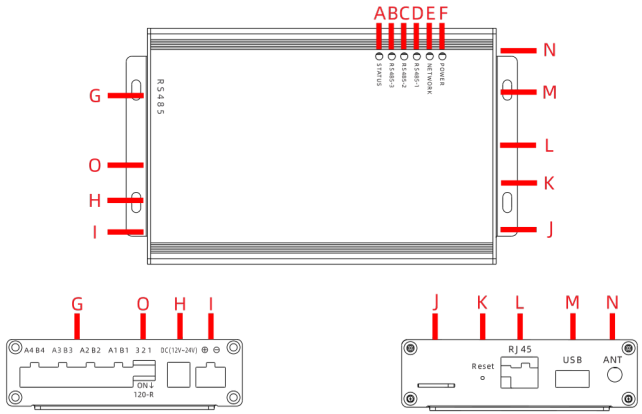
This manual is meant to provide detailed product information and installation instruction for users of JBLOG that produced by Jebel Technology Co., Ltd. (hereinafter referred to as JEBEL ESS).
Please read this manual carefully before using this product and store this manual in a place that is convenient for installation, operation, and maintenance personnel.
JEBEL ESS will not notify users of any changes to this manual. The contents of the manual will be continuously updated and revised, and it is inevitable that there will be slight discrepancies or errors with the actual products. Users purchased products please kind contact your local dealer or visit our website: www.nastechsolar.com to download the latest version of the manual to obtain information.

1.2 Applicable Personnel

This manual is for professional technicians who install, commission, and maintain the EnerLog and for users who perform daily operations. This manual does not include electrical connections for inverters, combiner boxes, weather stations, smart meters, and anti-reflux devices, as well as related precautions. If necessary, please refer to JEBEL ESS' corresponding user manual or instruction.

2 Product Description

2.1 Device Overview



2.1.1 Interface

The interface of Jbog, as shown in figure 2-1 above.
The functional description of each interface is shown in table 2-1.

Item	Name	Function
G	RS485	4 RS485 channels, 1-3 can monitor the equipment, the 4th is the debugging channel.
H	Power interface 1	12V power adapter interface to provide working power
I	Power interface 2	Backup power input port, see 3.2.1 for details
J	Card slot	Flow card socket (Only the 4G version has this feature)
K	Reset	Reset button: Long press for 4 seconds to restart EnerLog, long press for 10 seconds to restore factory settings.
L	RJ45	Cable interface
M	USB	USB interface: local upgrade EnerLog
N	ANT	Antenna interface (Only the 4G and WIFI versions have this feature).
O	120-R	DIP switch for 120Ω matching resistors on three RS-485 channels, 485-1 to 485-3. (Note: Only the new version comes with a DIP switch; the old version lacks a DIP switch and features built-in resistors)

Table 2-1

2.1.2 Indicator status description

Jblog has a total of 6 LED lights, through which the running status of Jblog can be displayed.

Item	Name	Function
A	STATUS LED	System status light Fast flashing: program upgrade Interval flashing: normal operation LED off: abnormal operation
B	RS485-3 LED	Monitoring device data indicator, the number of periodic flashing represents the number of devices communicating normally with the RS485-3 channel and Jblog
C	RS485-2 LED	Monitoring device data indicator, the number of periodic flashing represents the number of devices communicating normally with the RS485-2 channel and Jblog
D	RS485-1 LED	Monitoring device data indicator, the number of periodic flashing represents the number of devices communicating normally with the RS485-1 channel and Jblog
E	NETWORK LED	Network indicator The off state means that it is not connected to the network normally If the LED is steady on, the server is successfully connected.
F	POWER LED	Power Indicator Steady on: power supply is normal Off: Abnormal power supply

Table 2-2

2.2 Unpacking

2.2.1 Packing List

Jblog and accessories can be found as below figure 2-2:

Item	Name	Amount
1	Jblog	1 pcs
2	12V power adapter	1 pcs
3	RS485 and power supply interface 2 lock wire terminal	5 pcs
4	Jblog user manual	1 pcs
5	Network cable (1 meter)	1 pcs
6	JEBEL Certificate	1 pcs
7	Antenna (4G version comes with 4G antenna, WIFI version comes with WIFI antenna)	1 pcs

Table 2-3

.2.2 Serial No. and Check Code

Jblog's serial number (SN) is a code consisting of letters and numbers affixed on the Jblog outer package and on the Jblog case. The check code (CC) is a 5-digit code consisting of letters and numbers affixed on the Jblog outer package and on the Jblog case. The serial number and check code of each Jblog are unique and are used to identify the individual Jblog. When uploading Jblog data to the web server, you need to add Jblog to the server by adding the serial number and the verification code corresponding to the serial number. The serial No. and 'check code' corresponding to register on the server are needed.

2.3 Function Introduction

Jblog supports network communication, and can connect with cloud server through wired WLAN. Upload the monitored data to the server of ATESS, and then access the server's domain name to realize industrial common communication mode RS485. It also supports wired communication to monitor, set slave devices and perform online upgrades on devices. By accessing Jblog's internal IP address, you can enter the internal page for parameter setting, device adding and viewing (please refer to section 4.4).

Jblog monitors the devices through RS485.

3 Installation and Connection

3.1 Installation environment

Jblog installation environment and communication requirements for other devices:
(1) Indoor installation, temperature environment -25℃ ~ 55℃, avoid humidity and direct sunlight.
(2) The maximum communication distance of wired RS485 is 500m, and attention should be paid to prevent interference.
(3) The length of the network cable between the router should not exceed 100m.

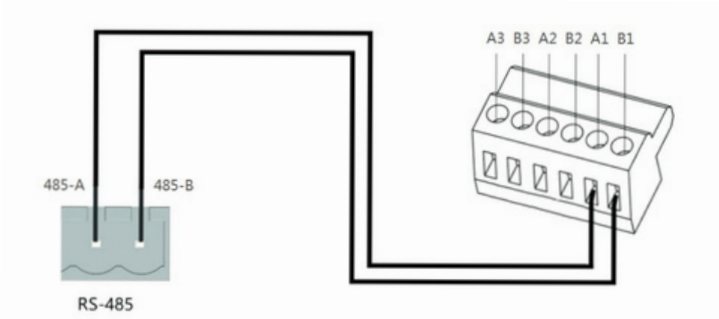
3.2 installation method

3.2.1 Installation

The installation steps are as follows:
● Install Jblog on a vertical or horizontal surface.
● Connect the connection line between the RS485 interface on the Jblog and the RS485 interface on the device (for details, please refer to 3.3.1 below).
● Communication method
a. Standard version: Connect the network cable.
● Power connection selection (choose one of the methods to connect to the power supply)
a. Jblog distributes a set of DC12V output power adapters and conversion plugs with five standards in China, Britain, the United States, Europe and Australia to adapt to the socket standards of different countries.
b. The power adapter is suitable only for AC 100-240V power supplies. If the power source does not fall within this voltage range, it is recommended to use a DC power supply method.
c. Jblog is equipped with a 12V ~ 24V DC power input port, and the positive and negative poles need to be correctly connected.
3.3 Connect with device
Jblog can communicate with energy storage inverters, BMS and other equipment to achieve the purpose of data collection.

3.3.1 RS485 cable connection

Jblog (master) and device (slave) communicate through RS485 wired connection. The 485-A on the RS485 port of the device corresponds to A1, A2 or A3 on the Jblog 485 port, and the 485-B on the RS485 port corresponds to Corresponding to B1, B2 or B3 on the Jblog 485 port. The following is a schematic diagram of the connection between Jblog and the inverter:



The functions of the A1B1, A2B2, and A3B3 channels are the same.

1.1 Manual Description

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1.2 Applicable Personnel

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2.3 Function Introduction

Jblog supports network communication, and can connect with cloud server through wired WLAN. Upload the monitored data to the server of JEBEL ESS, and then access the server's domain name to realize industrial common communication mode RS485. It also supports wired communication to monitor, set slave devices and perform online upgrades on devices. By accessing Jblog's internal IP address, you can enter the internal page for parameter setting, device adding and viewing (please refer to section 4.4). Jblog monitors the devices through RS485.

4 Jblog Internal Page Parameter Setting

Precautions for configuration page operation:

● If the interface is not refreshed for a long time after clicking save when adding a device, please power off the collector and restart it. Re-enter this page after restarting, click “device status” to check whether the last operation was successful.
● When configuring the parameters of the corresponding function, you only need to configure the parameters of the corresponding function according to the above method, and do not modify the other parameters that cannot be made.

4.1 IP access method

It is recommended to use Jblog with a router. Jblog uses a router to access the Internet by default, so the first time you log in to the internal Jblog page, you need to search for the IP address through the router backend to log in.

4.1.1 Dynamic IP login

● Connect the PC and Jblog to the same router so that they are in the same LAN.
● Find the IP address of Jblog
Take the H3C router as an example: Go to the router’s management page, click “DHCP Server→Server List”, and find the client name that is the same as Jblog’s serial number SN. This IP is the IP address assigned to Jblog by the router.

序号	MAC地址	IP地址	主机名	绑定
1	50:88:18:E0:57:19	192.168.60.2	BAKFB02000-E05719	☐
2	D0:AB:D5:0A:D4:44	192.168.60.3	DESKTOP-97VCIV6	☐
3	10:63:C8:67:FC:4B	192.168.60.5	DESKTOP-35J0URG	☐
4	D4:6A:6A:C8:8D:81	192.168.60.7	WIN-5G7766Q6OOP	☐

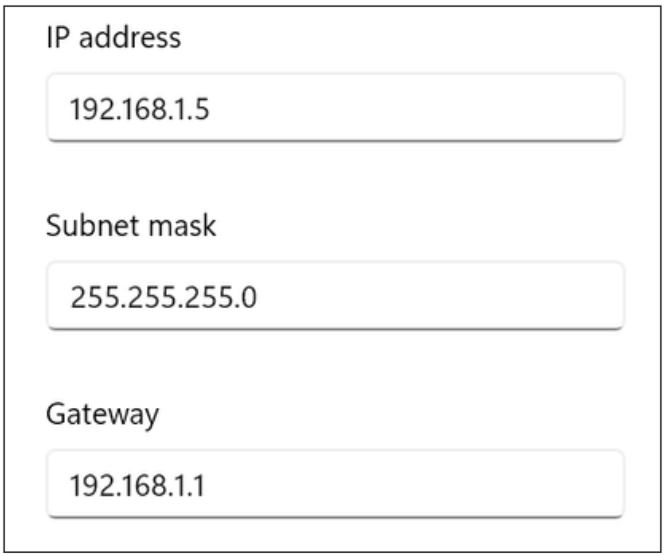
Note: The router must enable the DHCP function, otherwise the IP address cannot be assigned automatically.

Enter Jblog’s IP address in the browser to enter Jblog’s internal page.

4.1.2 Static IP login

● Connect the Jblog to the computer using a network cable.

● On the Network and Sharing Center page, change the IP address of the computer to 192.168.1.XXX (XXX ranges from 2 to 253). For example, the computer IP Settings are as follows:



Note: no need to set DNS server address

● After setting the IP address of the PC, enter the IP address of the Jblog: 192.168.1.254 on the browser page of the PC to log in. (If the router has been connected, you need to restart the router and use this method again).

4.2 Login to the internal page

Before access, check whether the communication cable between the devices is firmly connected. After the check is correct, you can enter the Jblog IP address in the browser to enter the internal Jblog page.

Note: Jblog and the computer must be in the same network segment, otherwise the internal page cannot be accessed.

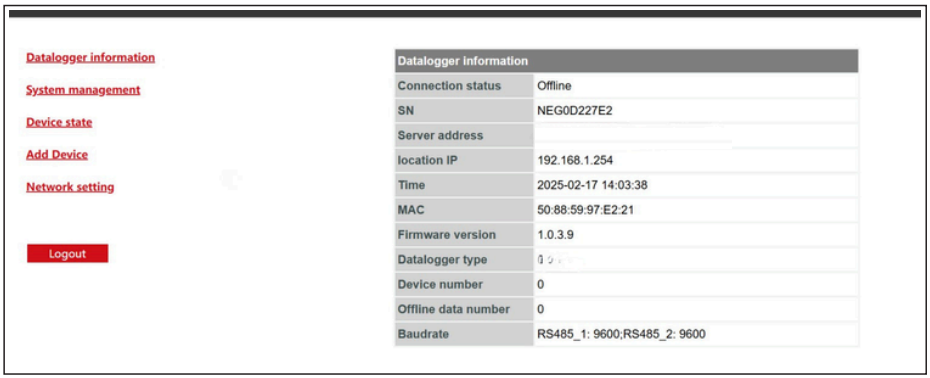
● If the method described in Section 4.1.1 is used, enter the IP address found in the browser. If the method in Section 4.1.2 is used, enter the IP address 192.168.1.254 in the address box of the browser. The page after visiting is as shown in the following figure:



● Enter the user name and password, the default login user name: admin password: admin.

4.3 Datalogger status view

Click Jblog datalogger status, you can view Jblog “system status information”, “serial number”, “server address”, “number of connected devices” and other information.
As shown in the picture.

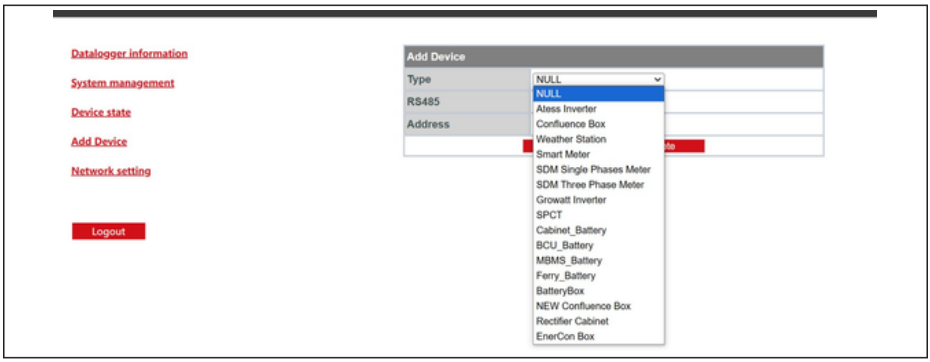


4.4 Add or delete device

Before Jblog monitors the device, you need to enter the internal page "Add Device" to add the device.

4.4.1 Add device

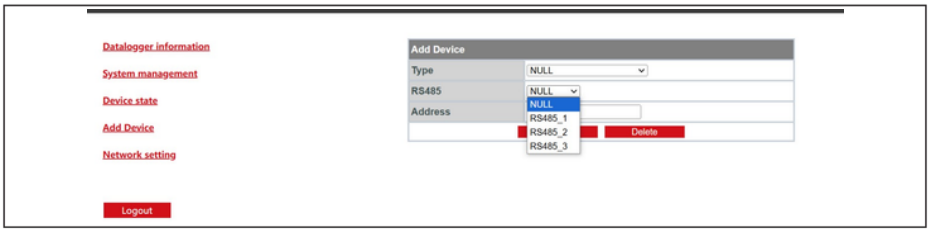
● Select the type of device in the first drop-down list of "Add or Remove Device", for example, select: Inverter.



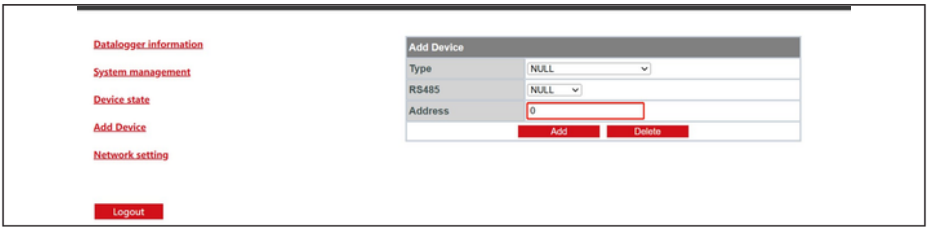
Equipment type description:

JEBEL ESS Inverter: Connect to JEBEL ESS's HPS, PCS, PBD and other devices.
Confluence Box: PV combiner box connected to JEBEL ESS.
Weather station: An environmental detector connected to JEBEL ESS.
SDM Single Phases Meter: A single-phase meter connected to JEBEL ESS.
SDM Three Phase Meter: A three-phase meter connected to JEBEL ESS.
BCU Battery: The BCU of the battery system connected to JEBEL ESS.
MBMS Battery: The MBMS of the battery system connected to JEBEL ESS.

● Select the 485 channel in the second drop-down list: for example, select: RS485-1.



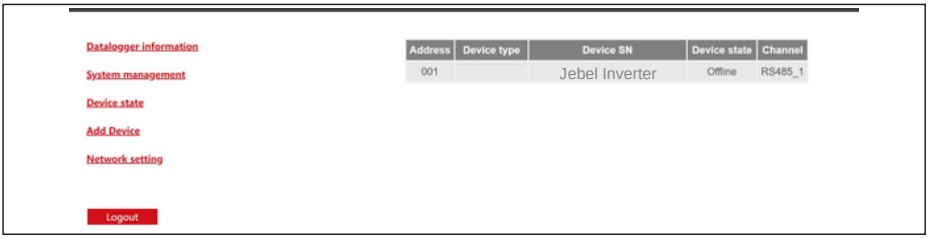
● Fill in the communication address of the monitored device in the third list (the communication address should be searched on the monitored device).



Note: The 485 communication address of all connected devices cannot be repeated.

● Select "Add" below and click Save.

● After saving successfully, enter the "Device Status" page to confirm whether the device is added successfully.



4.4.2 Delete device

● Select the type of monitoring device in the first drop-down list of " Add Device ".

● Select the 485 channel of the monitored device in the second drop-down list.

● Fill in the communication address of the device in the third list.

● Select the following "Del" and click Save to complete the deletion of the device.

● After saving successfully, enter the device "device status" page to confirm whether the device is deleted successfully.

Notice:

a. When deleting a device, the options should be the same as when adding the device: 485 channel, device type, address, etc. If you don't know the relevant parameters, you can first click the "Device Status" column to view.

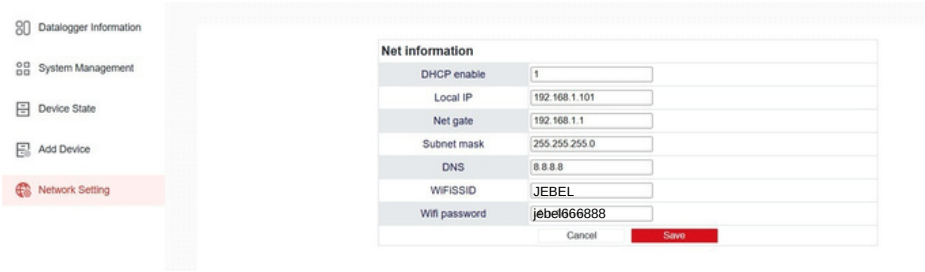
b. When an address is already occupied, adding a new device will not directly overwrite it. The old device must be deleted before the address can be used.

4.5 Setting the baud rate

The default baud rate of the 485 channel is 9600, and the default baud rate of the equipment produced by JEBEL ESS is 9600. If not necessary, please do not modify it.
The modification method is as follows:
(1) Select the baud rate in the “system management” column.
(2) Select the 485 channels to be modified.
(3) Save the modification.

4.6 Network communication

Jblog communicates through network cable connection. You can choose to automatically allocate IP to the Internet with a DHCP-enabled router, or use a fixed IP to connect to the Internet



4.6.1 Networking settings

● Network cable communication

a. In the "Network setting" page, "DHCP ENABLE" can be set to 0 or 1. 0 means static IP, 1 means DHCP automatically assigns IP.

b. The DHCP function is enabled by default in the factory, and the IP address is automatically obtained from the router.

c. If you need to set EnerLog to a static IP during use, you need to make the following settings:

① Modify the enable to 0, turn off the DHCP function, and modify it to a static IP.

② Set parameters such as IP, gateway, subnet mask, DNS, etc., and click Save.

● WiFi network connection settings

a. On the network settings page, enter the name and password of the WIFI, and click "Save".

b. Unplug the network cable connected to the RJ45 interface of the EnerLog, then restart the EnerLog.

c. Wait for the connection to the WIFI, and observe the NETWORK indicator light. A constantly on light indicates a successful connection.

● 4G network connection settings

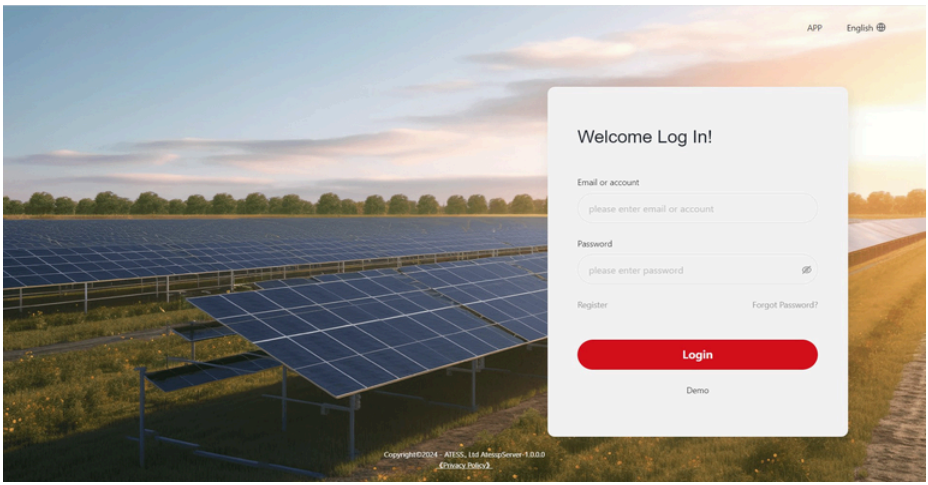
a. Insert an available SIM card.

b. Do not insert a network cable into the RJ45 interface. Observe the NETWORK indicator light. A constantly illuminated light indicates a normal connection.

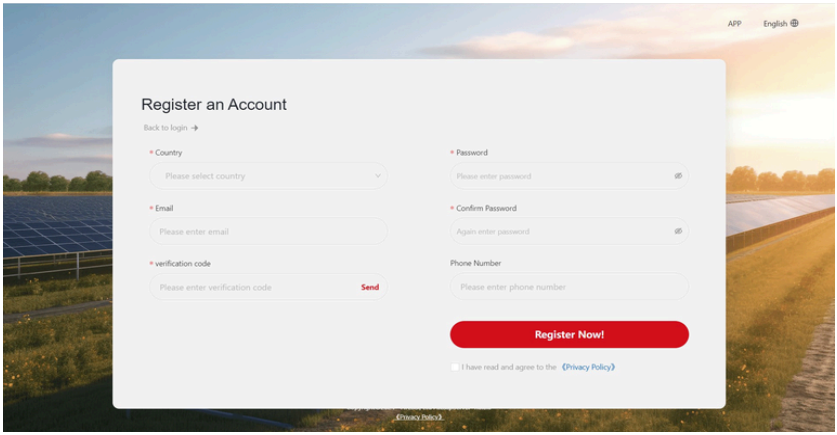
5 Upload Enerlog Data To The Server

5.1 Registration and login

● Enter the server address on the browser to enter the server login page. If it is the first login, please register first.
The server address is: www.nastechsolar.com



● Click "Register" to enter the account registration page. Register a user name, enter user information according to the prompts, and click "Register Now!" after filling in the information.

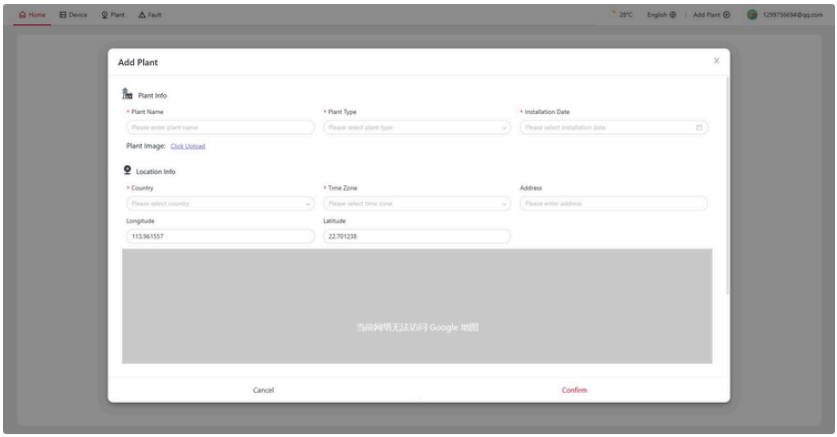


5.2 Create new power plant

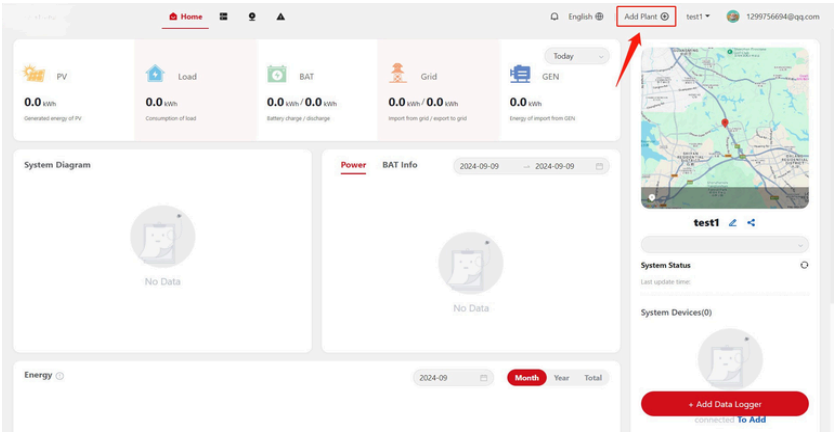
● After the account registration is completed, enter the user name and password to log in to the server.

● When there are multiple power stations under this account, in order to avoid confusion, you need to create a new power plant before adding Jblog

● After logging in to the server for the first time, the system prompts you to create a new power station.

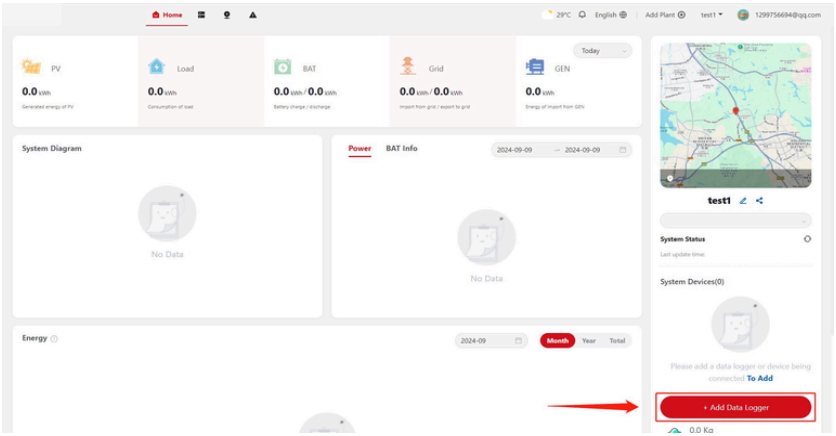


● Click "Add Plant" at the top right of the main page, and follow the prompts to create a new power station.

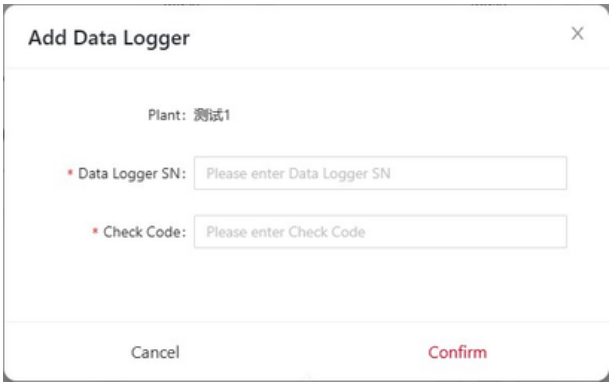


5.3 Add EnerLog to the server

● After entering the main page of the server, click "Add Data Logger" in the upper rightcorner and follow the prompts to add EnerLog.

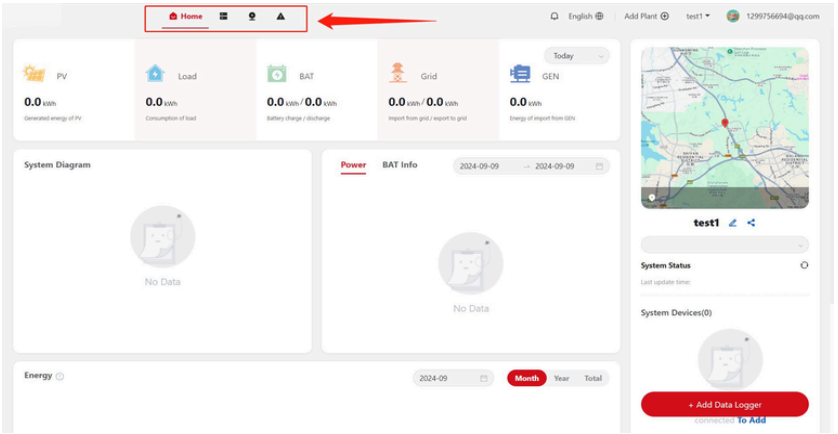


● Please find the "Data Logger SN" and "Check Code" on the EnerLog outer box or EnerLog shell.



5.4 View monitoring data

- After successfully adding Jblog , return to the main page to view the monitoring information.
- There are four page selection buttons on the main page, corresponding to different pages.



Dashboard: Home screen displays real-time device power and battery information, device energy trend, battery information, and monitoring device status.

Device: On this page, you can view the status information and historical data records of all devices in the power station and perform remote operation Settings. (It is recommended that you modify the Settings under the guidance of professional personnel to avoid system anomalies.)

Plant: View all power stations under the account. Click power station to enter the corresponding power station to view details.

Fault: The log page can view the historical fault information of all devices.

6 Device Maintenance

6.1 Reset EnerLog

● If the "Reset" button is pressed for more than 1 second, the EnerLog will restart.

● If you press the "Reset" button for more than 5 seconds, EnerLog will clear all setting information and restore the factory settings. Please proceed with caution.

6.2 Common faults and troubleshooting

Fault	Cause	Suggestion
Cannot enter the EnerLog internal page	EnerLog can not obtain the IP	1.Enable Router DHCP Function 2.PC and the EnerLog must be in the same domain
EnerLog internal page "System Status Information" shows disconnected	Unable to connect to server	1.Check whether the router network is connected to the Internet. 2.Check if the "server address" is correct The international user server domain is https://www.enerclo-atesspower.com
EnerLog is online, but the monitored device is disconnected after logging in to the account	1.Monitor connection failed 2.No access to the internal page to add equipment 3.Inconsistent Photovoltaic equipment address and added equipment address 4.Illegal PV device serial number	1.Check the communication line is in contact with the stability 2.Enter the internal page "datalogger settings" to add photovoltaic devices 3.On the "Device Status" page of the internal page, check whether the device's communication address is consistent with the added device. 4.Check whether the serial number of the monitored PV equipment is 10 digits. It can only contain English letters and numbers, and there are no illegal characters.
Long time no refresh interface after operation	Configuration page does not respond	Refresh the page or login in again.

6.3 Maintenance

● Avoid frequent switching of power supply, handle with care to prevent damage.

● EnerLog is a product for indoor use, do not place it in humid environments or in direct sunlight.

7 Technical specifications

7.1 Jblog specification

General specification

Length * width * height	175mm*105mm*31mm
Net Weight	320g

Operating environment

Ambient temperature	-25℃~ +55℃
Installation	Indoor

Communication

Wireline communication	Rs485 monitors up to 60 devices
RS485 communication distance	Maximum 500 meters (use shielded wire, shielding layer grounded)



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