Smart DataLogger

EzLogger3000C

User Manual

Copyright Statement:

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

1. Disclaimer

1.1. About This Manual

This manual describes the product information, installation, electrical connection, commissioning, troubleshooting, and maintenance. Read through this manual before installing and operating the products. All the installers and users have to be familiar with the product features, functions, and safety precautions. This manual is subject to update without notice. For more product details and latest documents, visit https://en.goodwe.com/.

1.2. Applicable Model

This document applies to the Smart DataLogger EzLogger3000C (EzLogger for short).

1.3. Symbol Definition

DANGER
Indicates a high-level hazard that, if not avoided, will result in death or serious injury.
WARNING
Indicates a medium-level hazard that, if not avoided, could result in death or serious injury.
CAUTION
Indicates a low-level hazard that, if not avoided, could result in minor or moderate injury.
NOTICE
Highlights key information and supplements the texts. Or some skills and methods to solve product-related problems to save time.

2. Safety Precautions

Please strictly follow these safety instructions in the user manual during the operation.

WARNING

The products are designed and tested strictly to comply with related safety rules. Read and follow all the safety instructions and cautions before any operations. Improper operation might cause personal injury or property damage as the products are electrical equipment.

2.1. General Safety

NOTICE

- The information in this user manual is subject to change due to product updates or other reasons. This manual cannot replace the product safety labels unless otherwise specified. All descriptions here are for guidance only.
- Before installations, read through this document to learn about the product and the precautions.
- All operations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Unauthorized dismantling or modification may damage the equipment, the damage is not covered under the warranty.
- Strictly follow the installation, operation, and configuration instructions in this manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions. For more warranty details, please visit https://www.goodwe.com/warrantyrelated.html.

2.2. Personnel Requirements

NOTICE

- Personnel who install or maintain the equipment must be strictly trained, learn about safety precautions and correct operations.
- Only qualified professionals or trained personnel are allowed to install, operate, maintain, and replace the equipment or parts.

2.3. Grounding Safety

WARNING

- Make sure the equipment is installed at a solid and reliable place.

- Before operation, make sure the device is reliably grounded.

2.4. Personal Safety

DANGER

- Use insulating tools and wear personal protective equipment (PPE) when operating the equipment to ensure personal safety.
- Do not touch the equipment when it is short-circuited. Keep away from the equipment, and turn off the power immediately.
- Before electrical connections, disconnect all upstream switches to ensure the device is not
energized.

2.5. Equipment Safety

DANGER

Make sure the equipment is installed at a solid and reliable place.

WARNING

- Use appropriate tools for proper installation, maintenance, etc.
- Comply with local standards and safety regulations when operating the equipment.
- Unauthorized disassembly or modification may cause damage to the equipment, which is not covered within the warranty scope.

2.6. Warning Labels

DANGER

- All labels and warning marks should be visible after the installation. Do not cover, scrawl, or damage any label on the equipment.
- The following descriptions are for reference only.

No.	Symbol	Descriptions

1		Potential risks exist. Wear proper personnel protective equipment before any operations.
2		HIGH VOLTAGE HAZARD Disconnect all incoming power and turn off the product before working on it.
3		Read through the user manual before any operations.
4		Do not dispose of the System as household waste. Deal with it in compliance with local laws and regulations, or send it back to the manufacturer.
5		CE mark
6		RCM mark
7		TELEC mark
8		ANATEL mark

2.7. EU Declaration of Conformity

2.7.1. Equipment With Wireless Communication Modules

GoodWe Technologies Co., Ltd. hereby declares that the equipment with wireless communication modules sold in the European market meets the requirements of the following directives:

- Radio Equipment Directive 2014/53/EU (RED)
- Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)
- Waste Electrical and Electronic Equipment 2012/19/EU
- Registration, Evaluation, Authorization and Restriction of Chemicals (EC) No 1907/2006 (REACH)

2.7.2. Equipment Without Wireless Communication Modules

GoodWe Technologies Co., Ltd. hereby declares that the equipment without wireless communication modules sold in the European market meets the requirements of the following directives:

- Electromagnetic compatibility Directive 2014/30/EU (EMC)
- Electrical Apparatus Low Voltage Directive 2014/35/EU (LVD)
- Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)
- Waste Electrical and Electronic Equipment 2012/19/EU
- Registration, Evaluation, Authorization and Restriction of Chemicals (EC) No 1907/2006 (REACH)

3. Product Introduction

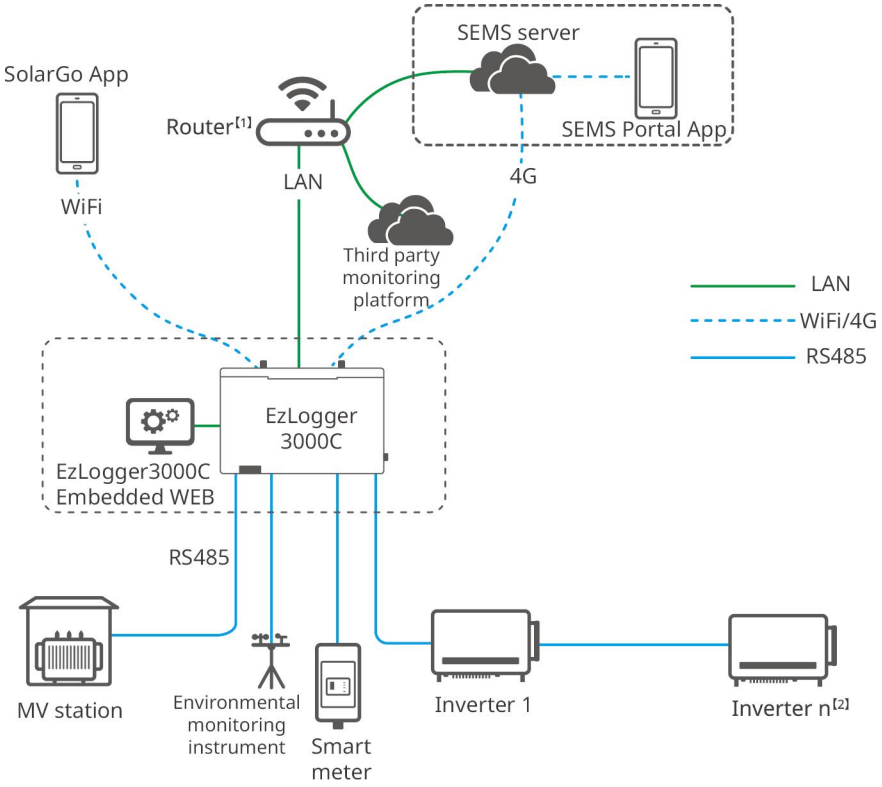
3.1. Functions

The EzLogger is a device for the monitoring and management platform of the PV system. It can be used to collect data or logs of the inverter, environmental monitoring instrument, smart meter, etc.. The collected data will be send to the management platform to monitor, operate and maintain the PV system.

3.2. Networking

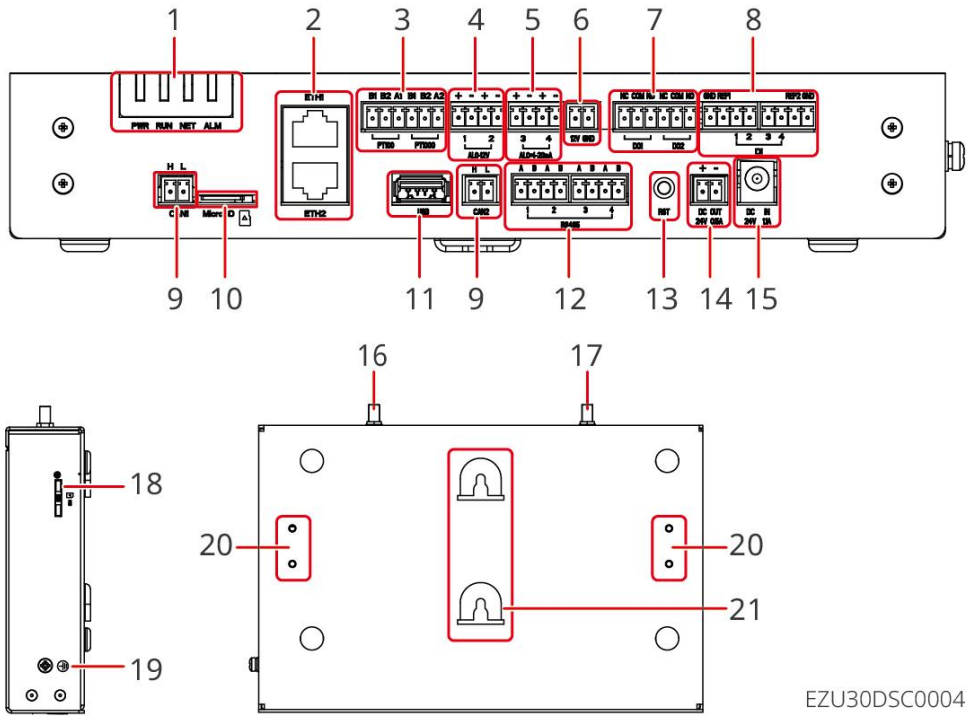
EzLogger is applicable to the PV systems over the following communication methods:

- RS485 communication, which enables communication between the EzLogger and devices like smart meters, inverters, box-type transformers, etc..
- Ethernet communication, which enables communication between the EzLogger and the router, PC and power plant monitoring system.
- 4G communication, which enables communication between the EzLogger and the power plant monitoring system.
- WiFi communication, which enables communication between the EzLogger and SolarGo App.



[1] Contact the after-sales service center if the router is protected by firewall.
[2] A maximum of 20 inverters can be connected to one RS485 port.
[2] A maximum of 100 devices can be connected to the system, including inverters, MV stations, weather stations, temperature sensors, etc.

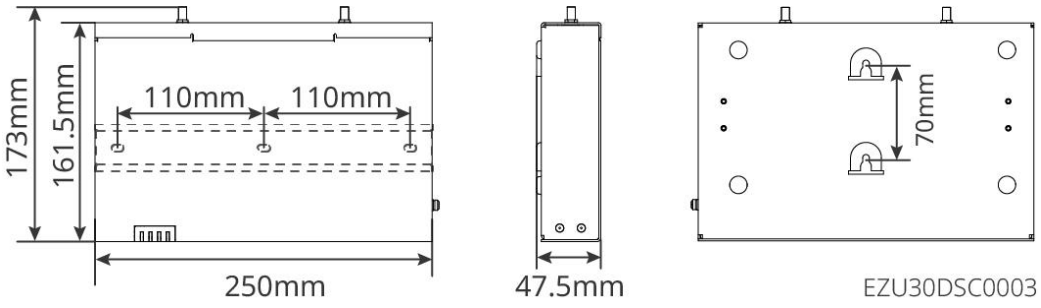
3.3. Appearance



No.	Parts	Description
1	Indicator	Indicates the equipment's working status.
2	Ethernet ports (ETH1/2)	Communication ports for the Ethernet cable. ● ETH1: for network communication. ● ETH2: for network communication and embedded web connection.
3	PT ports (PT100 PT1000)	Ports for connecting the temperature sensor.
4	AI ports (AI_0-12V)	Communication ports for 0-12V AI signal input cable.
5	AI ports (AI_0/4-20mA)	Communication ports for 0-20mA or 4-20mA AI signal input cable.
6	12V output power port (12V GND)	Supports 12V DC power input.
7	DO ports (DO1/2)	Communication ports for DO signal cable.
8	DI ports (DI)	Communication ports for DI signal cable. Supports dry contact or wet contact signal.
9	CAN ports (CAN 1/2)	Reserved ports for CAN communication.
10	MicroSD card slot (MicroSD)	Supports installing a MicroSD card to storage running, operation, and maintenance logs.

11	USB port (USB)	Connects to a USB flash drive, which can be used to update firmware version.
12	RS485 ports (RS485 1-4)	Communication ports for connecting RS485 communication cables. Supported devices: inverters, smart meters, EMIs, etc.
13	Reset button (RST)	Short press 1-3s: restart the EzLogger. Long press 6-20s: restart theEzLogger and restores factory default network settings.
14	DC output power port (DC OUT 24V 0.5A)	24V DC power output port.
15	DC input power port (DC IN 24V 1.1A)	24V DC power input port.
16	4G antenna port (4G ANT)	For 4G antenna. 4G is available in some countries and regions. Contact local distributors for more details.
17	WiFi antenna port (WiFi ANT)	• For WiFi hotspot signal. • If the equipment is installed in a metal box or under a metal/concrete roof, an external antenna or RF extension cable is recommended to amplify signal. Recommended specifications of WiFi antenna: 2.4G
18	SIM card slot (SIM)	Supports installing a SIM card for 4G communication.
19	Protective earthing point	Connects grounding cables to the grounding points for protection.
20	Rail clamp mounting point	Installs the equipment on the DIN rail.
21	Screw mounting slot	Hangs the equipment on screws.

3.4. Dimensions



3.5. Indicator

LED Indicators

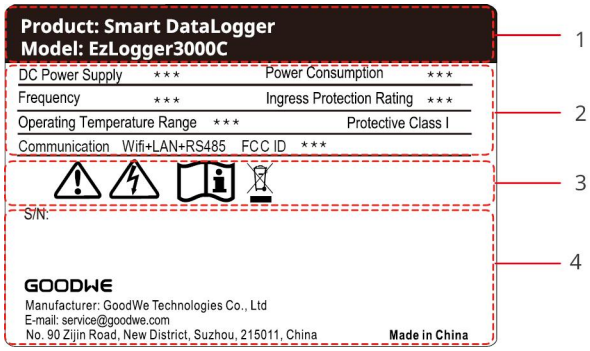
Indicator	Status	Description
PWR		Steady green: The device is powered on.
		Green off: The device power supply is abnormal.
RUN		Steady green/Green off: The device fails to work.
		Slow blinking green: The device is working properly.
NET		Steady green: Communication between the device and the server is normal.
		Fast blinking green: Communication between the device and the router is normal, but communication between the device and the server fails.
		Slow blinking green: Communication between the device and the router fails.
ALM		Steady red: All the connected inverters are in fault status.
		Fast blinking red: the equipment is being upgraded.
		Red off: At least one inverter in the system is working properly.

Button

RST Button	Definition
Short press 1-3s	Restart the EzLogger.
Long press 6-20s	Restart the EzLogger and restores factory default network settings.

3.6. Nameplate

The nameplate is for reference only.



NO.	Description	NO.	Description
1	Product type and model	2	Technical parameters
3	Safety symbols	4	GW trademark, manufacturer and contact information

4. Check and Storage

4.1. Check Before Receiving

Check the following items before receiving the product.

1. Check the outer packing box for damage, such as holes, cracks, deformation, and other signs of equipment damage. Do not unpack the package and contact the supplier as soon as possible if any damage is found.
2. Check the product model. If the product model is not what you requested, do not unpack the product and contact the supplier.
3. Check the deliverables for correct model, complete contents, and intact appearance. Contact the supplier as soon as possible if any damage is found.

4.2. Storage

If the equipment is not to be installed or used immediately, please ensure that the storage environment meets the following requirements: If the equipment has been long term stored, it should be checked by professionals before being put into use.

Time Requirements

- If the inverter has been stored for more than two years or has not been in operation for more than six months after installation, it is recommended to be inspected and tested by professionals before being put into use.
- To ensure good electrical performance of the internal electronic components of the inverter, it is recommended to power it on every 6 months during storage. If it has not been powered on for more than 6 months, it is recommended to be inspected and tested by professionals before being put into use.

Packing requirements

Do not unpack the outer package.

Installation environment requirements：

- Place the equipment in a cool place where away from direct sunlight.

- Store the equipment in a clean place. Make sure the temperature and humidity are appropriate and no condensation. Do not install the equipment if the ports or terminals are condensed.
- Keep the equipment away from flammable, explosive, and corrosive matters.

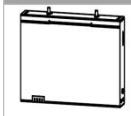
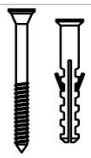
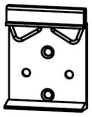
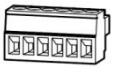
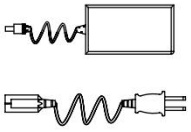
4.3. Package Content

WARNING

- Check the deliverables for correct model, complete contents, and intact appearance. Contact the supplier as soon as possible if any damage is found.
- After removing the pack, do not place the deliverables in any rough, uneven or sharp placed to avoid paint loss.

NOTICE

- Connect the cables using the included terminals. The manufacturer shall not be liable for the damage if other terminals are used.
- Refer to actual appearance of the power adapter.
- Number of the WiFi antenna: 1. Number of the 4G antenna (optional): 1. Quantity of the antenna varies depending on the product configuration.

Parts	Description	Parts	Description
	EzLogger x 1		Rail x 1
	Expansion screws x 2		2PIN terminal x 4
	Rail clamp x 2		4PIN terminal x 6
	6PIN terminal x 2		Screws x 4
	Antenna x N		Power adapter x 1
	Documents x 1	-	-

5. Installation

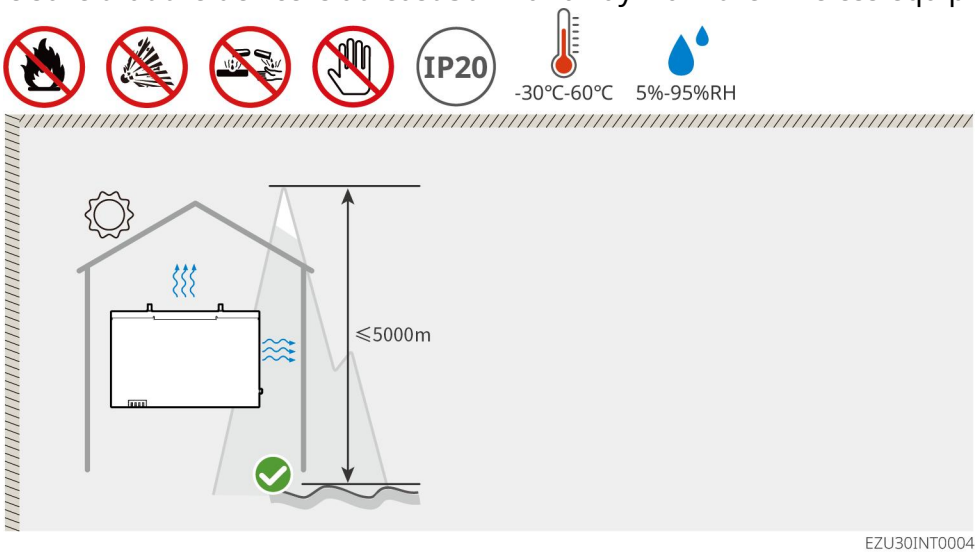
DANGER

Install and connect the equipment using the deliverables included in the package. Otherwise, the manufacturer shall not be liable for the damage.

5.1. Installation Requirements

5.1.1. Installation Environment Requirements

1. Do not install the equipment in a place near flammable, explosive, or corrosive materials.
2. The temperature and humidity at the installation site should be within the appropriate range.
3. Do not install the equipment in a place that is easy to touch, especially within children's reach.
4. Install the equipment in a sheltered place to avoid direct sunlight, rain, and snow. Build a sunshade if it is needed.
5. The place to install the equipment shall be well-ventilated for heat radiation and large enough for operations.
6. Install the equipment at a height that is convenient for operation and maintenance, electrical connections, and checking indicators and labels.
7. The altitude to install the equipment shall be lower than the maximum working altitude of the system.
8. Install the equipment away from electromagnetic interference. If there is any radio or wireless communication equipment below 30MHz near the equipment, make sure that the device is at least 30m far away from the wireless equipment.



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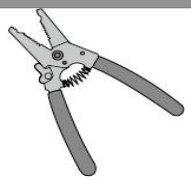
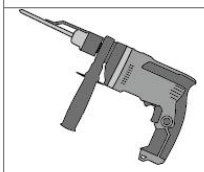
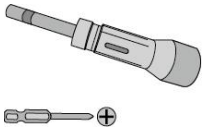
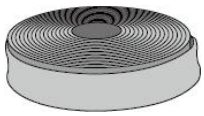
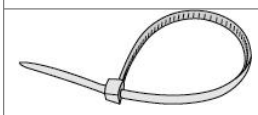
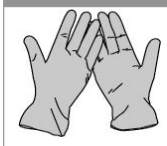
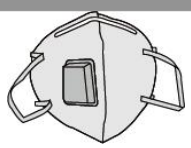
5.1.2. Installation Tool Requirements

NOTICE
The following tools are recommended when installing the equipment. Use other auxiliary tools on site if necessary.

Installation Tools

Tool	Description	Tool	Description
	Diagonal pliers		Wire stripper
	Hammer drill (Φ15mm)		Torque wrench M4, M3
	Rubber hammer		Socket wrench set
	Marker		Heat shrink tube
	Cable tie		Level

Personal Protective Equipment

Tool	Description	Tool	Description
	Insulation gloves and safety gloves		Dust mask
	Goggles		Safety shoes

5.2. EzLogger Installation

Method one: Wall-Mounting

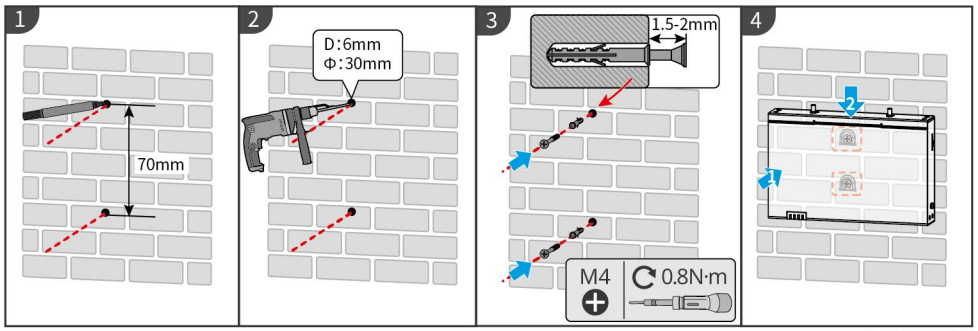
NOTICE
● Avoid the water pipes and cables buried in the wall when drilling holes. ● Wear goggles and a dust mask to prevent the dust from being inhaled or contacting eyes when drilling holes. ● For easy connection and maintenance, ensure that the cable connection area of the EzLogger is accessible.

Step 1: Mark positions for drilling holes. Ensure that the marked holes match the mounting holes on the back of the equipment.

Step 2: Drill holes to a depth of 30mm using the hammer drill. The diameter of the drill bit should be 6mm.

Step 3: Install the expansion screws, leaving a length of 1.5-2mm outside the wall to hang the equipment.

Step 4: Hang the equipment to the expansion screws and pull it down to ensure that equipment is mounted securely.



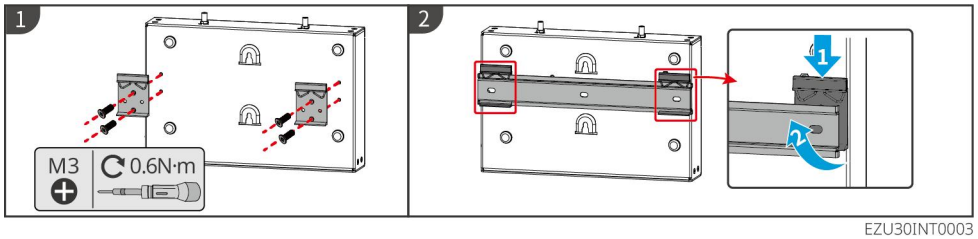
EZU30INT0002

Method two: Rail-mounting

NOTICE
● Screw the rail clamp to the EzLogger for rail-mounting. ● Prepare M4 screws and fix the rail on a solid and stable surface like a wall or a support.

Step 1: Screw the rail clamp to the EzLogger using M3 screws.

Step 2: Install the EzLogger to the rail.



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Method three: Table-mounting

The EzLogger supports table installation, which means place the equipment on a desktop.

NOTICE

- Put the EzLogger on a horizontal table. Place it properly to avoid the equipment slipping and causing damage.
- Do not put the EzLogger in a place where it can be easily touched to avoid signal interruption caused by accidental touching.

6. Electrical Connection

DANGER

- Perform electrical connections in compliance with local laws and regulations. Including operations, cables, and component specifications.
- Before electrical connections, disconnect all upstream switches to ensure the device is not energized. Do not work with power on. Otherwise, an electric shock may occur.
- Tie the same type cables together, and place them separately from cables of different types. Do not place the cables entangled or crossed.
- If the cable bears too much tension, the connection may be poor. Reserve a certain length of the cable before connecting it to corresponding ports.
- When crimping the terminals, ensure that the conductor part of the cable is in full contact with the terminals. Do not crimp the cable jacket with the terminal. Otherwise the equipment may not work, or its terminal block getting damaged due to heating and other phenomenon because of unreliable connection after operation.

NOTICE

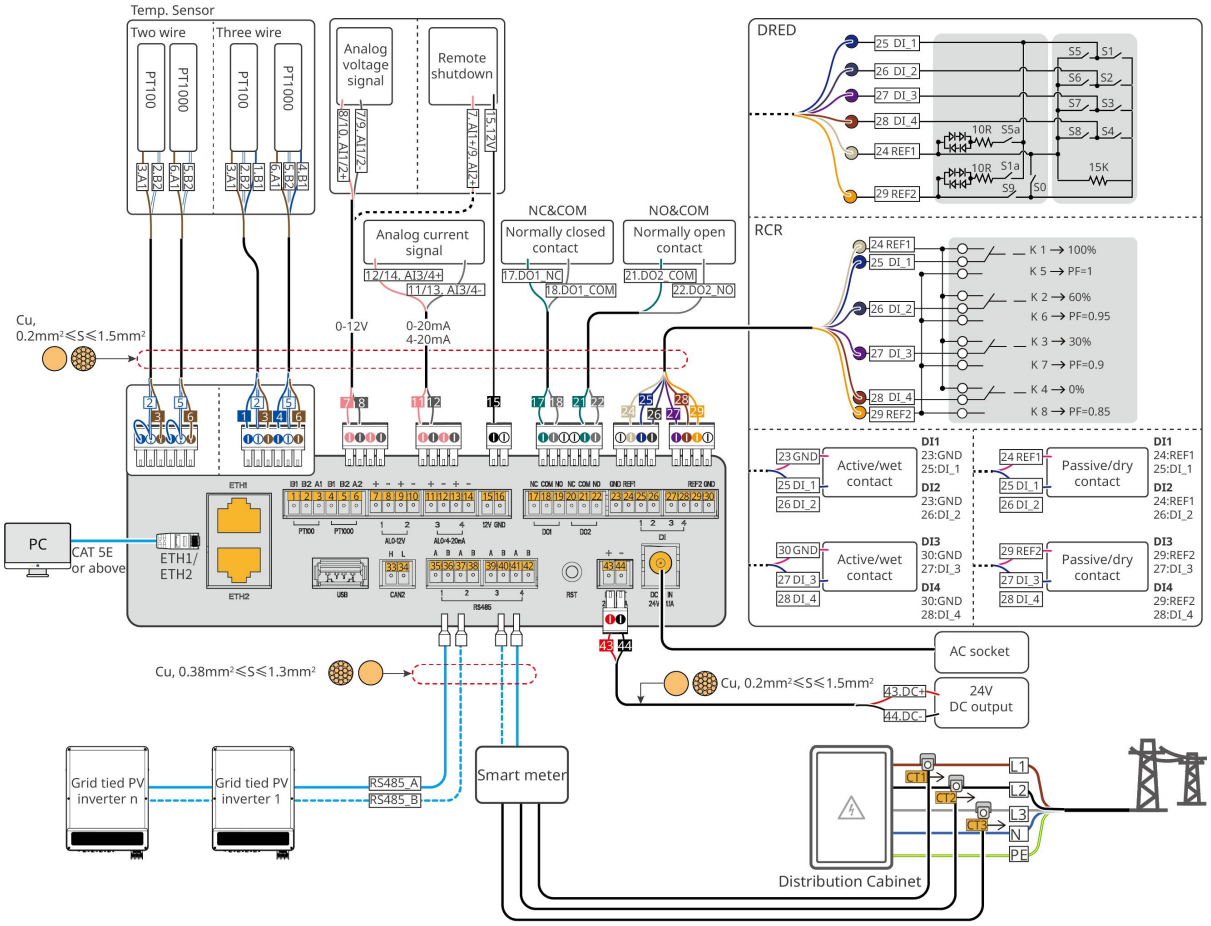
- Wear personal protective equipment like safety shoes, safety gloves, and insulating gloves during electrical connections.
- All electrical connections should be performed by qualified professionals.
- Cable colors in this document are for reference only. The cable specifications shall meet local laws and regulations.

6.1. System Wiring Diagram

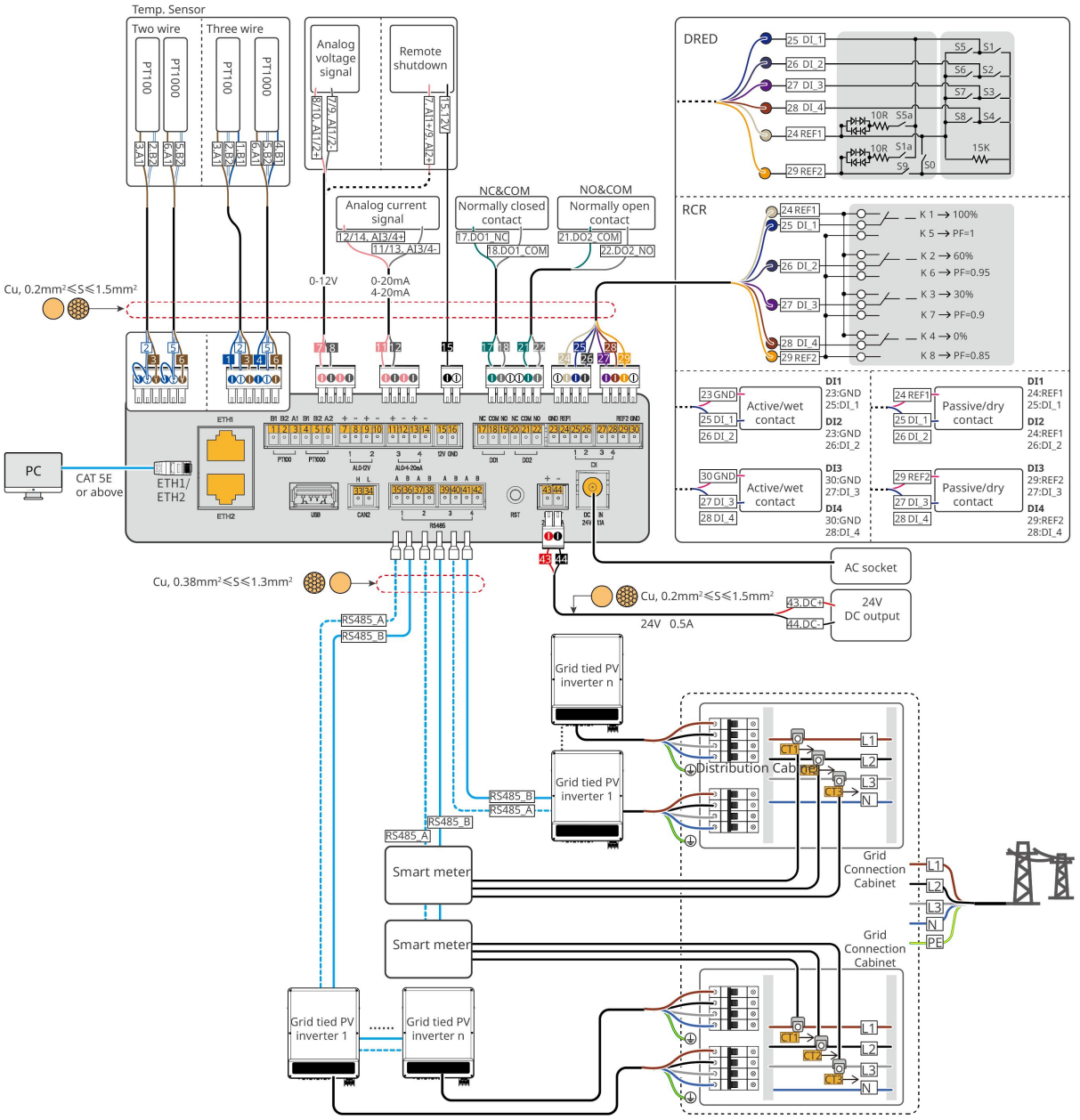
NOTICE

Active and reactive power adjustment value of RCR devices in the wiring diagram are default values. For specific values, refer to the actual needs of the grid company.

- **EzLogger3000C+ inverters + single smart meter**



- **EzLogger3000C+ inverters + multi smart meters**



6.2. Prepare Materials

Preparing Cables

No.	Cable	Silkscreen	Recommended specifications
1	PE cable	⏚	• Outdoor copper cable • Conductor cross-sectional area: 2.5mm²-4mm²(14AWG-12AWG)
2	DC output cable (12V/24V)	DC OUT / 12V GND	• Outdoor copper cable • Conductor cross-sectional area: 0.2mm²-1.5mm²(24AWG-16AWG)
3	DO Signal Cable	DO 1-2	
4	RS485 Communication Cable	RS485 1-4	• Shielded twisted pair cable that meets local standards • Conductor cross-sectional area:

			0.2mm^2-1.5mm^2(24AWG-16AWG)
5	DI Signal Cable	DI 1-4	• Outdoor copper cable • Conductor cross-sectional area: 0.2mm^2-1.5mm^2(24AWG-16AWG)
6	AI Signal Cable	AI_0-12V AI_0/4-20mA	
7	PT Signal Cable	PT100/PT1000	
8	Ethernet Cable	ETH 1-2	• CAT 5E or higher specifications • RJ45 shielded connector

6.3. Connecting the PE Cable

WARNING

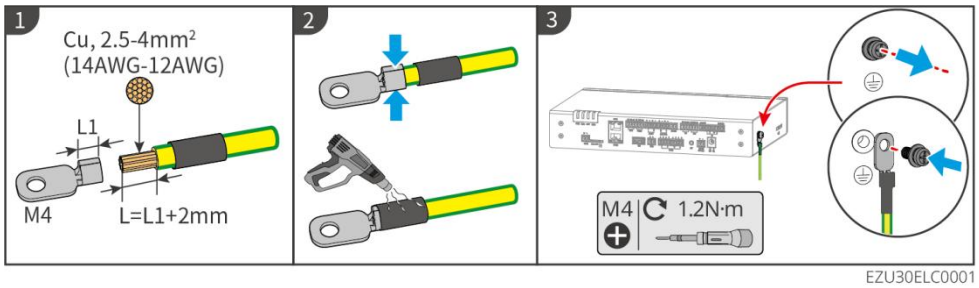
- Make sure the equipment is reliably grounded before any operations.
- To improve the corrosion resistance of the terminal, you are recommended to apply silica gel or paint on the ground terminal after installing the PE cable.
- The PE cable, grounding OT terminal, and screw should be prepared by the customer. Recommended specifications:
  - PE cable: outdoor copper cable with conductor cross-sectional area of 2.5mm^2-4mm^2(14AWG-12AWG).
  - OT terminal: M4
  - Screw: M4

Step 1 Strip the cable to an appropriate length for insulation.

Step 2 Crimp the cable to the grounding OT terminal.

Step 3 Wrap the crimping area with insulation tube.

Step 4 Secure the PE cable to the grounding point of the EzLogger with M4 screw.



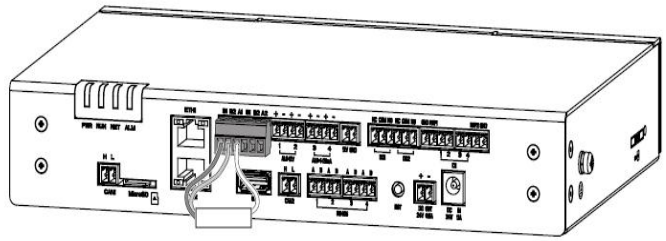
6.4. Connecting the PT Signal Cable

NOTICE

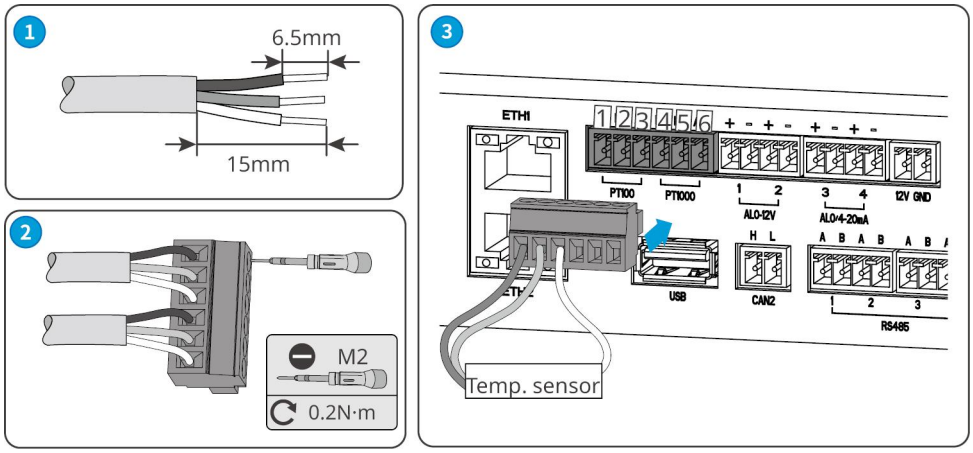
- The PT ports can be used to connect to two-wire or three-wire PT100/PT1000

temperature sensors.

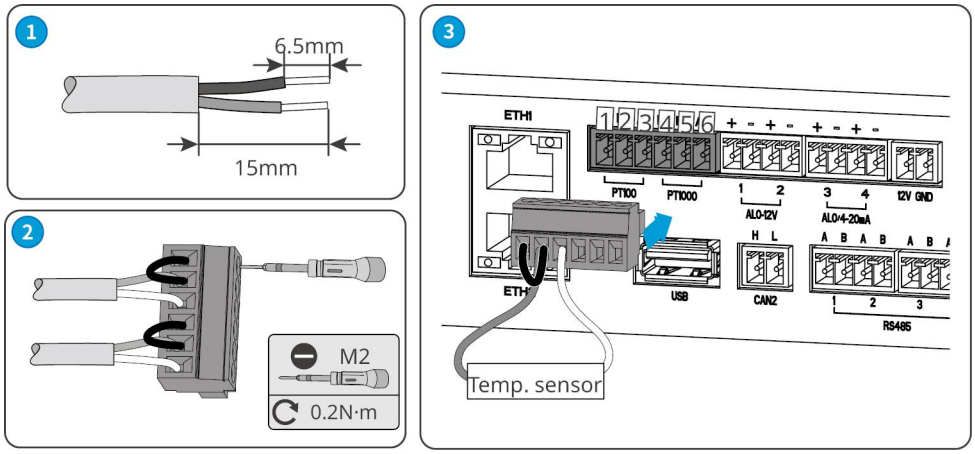
- Short circuit B1 port and B2 port when connecting the EzLogger to a two-wire temp. sensor.



Three wire PT100/PT1000



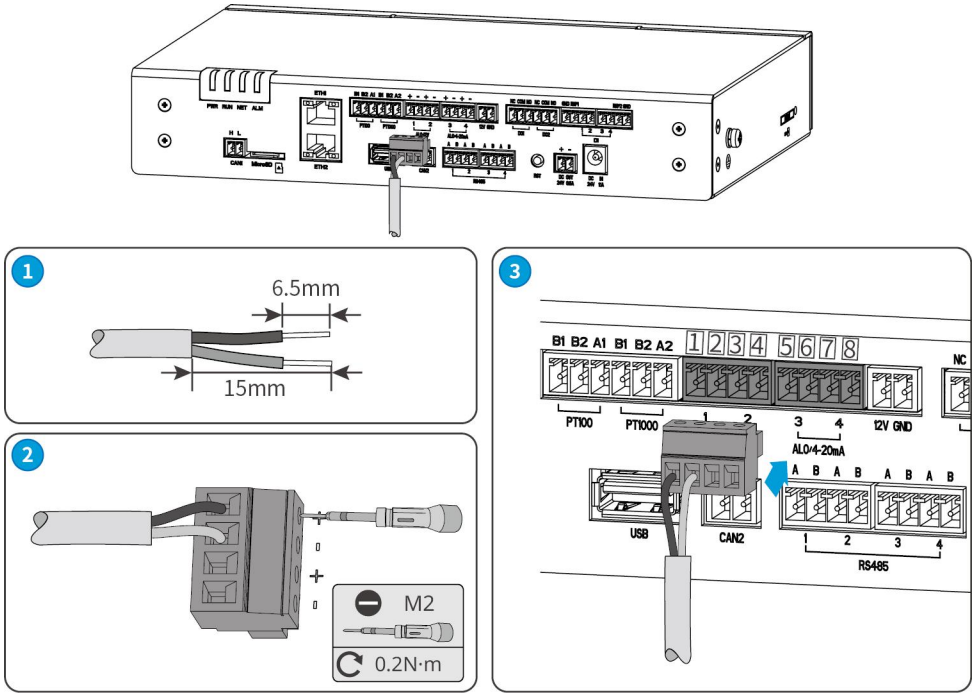
Two wire PT100/PT1000



No.	Port definition	No.	Port definition
1	PT100_B1	4	PT1000_B1
2	PT100_B2	5	PT1000_B2
3	PT100_A	6	PT1000_A

6.5. Connecting the AI Signal Cable

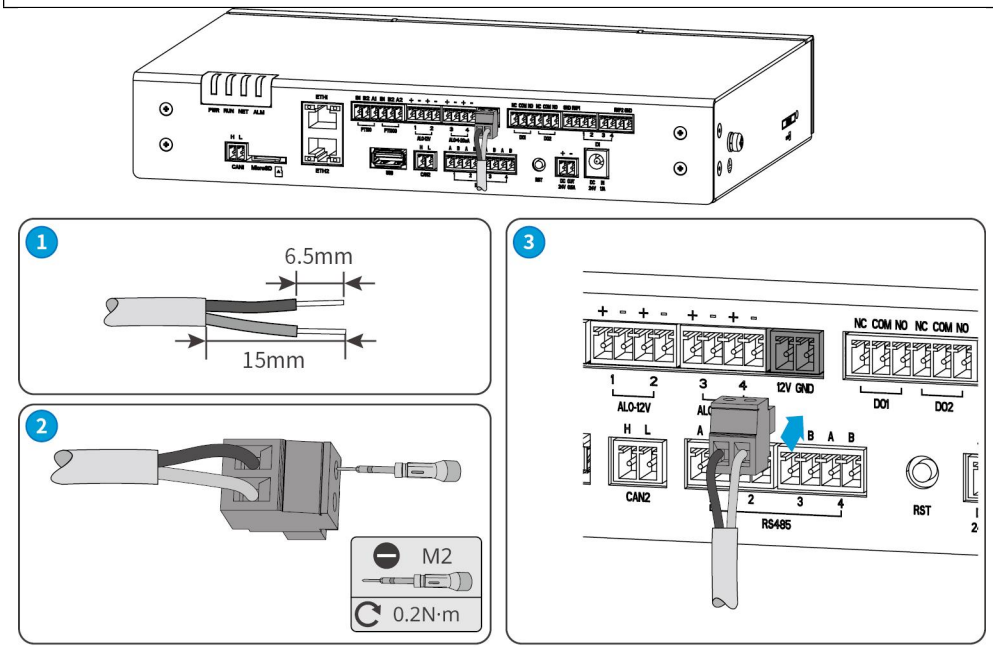
NOTICE
● The EzLogger provides AI ports, which can be used to receive voltage or current analog input signals. ● Connect the remote shutdown device to AI1+ or AI2+ port and 12V Output port of the EzLogger to realize remote shutdown.



No.	Port definition
1	Supports 0–12V analog voltage signal.
2	
3	
4	
5	Reserved for 0–20mA or 4–20mA analog current signal.
6	
7	
8	

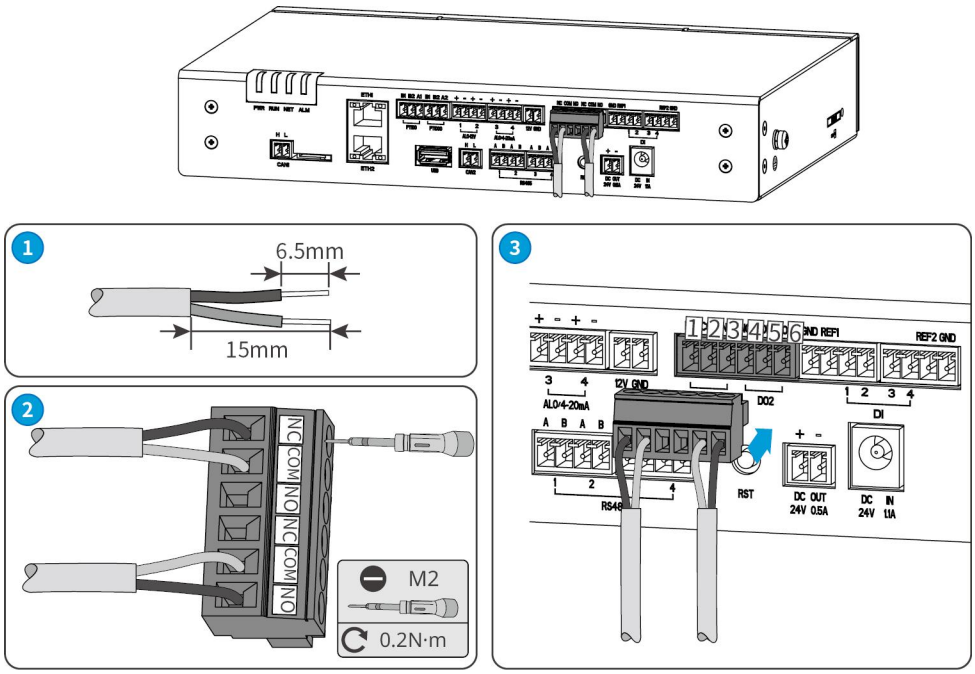
6.6. Connecting the 12V DC Output Cable

NOTICE
Only for remote shutdown.



6.7. Connecting the DO Communication Cable

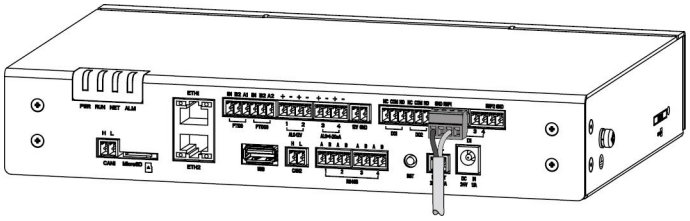
NOTICE
● The EzLogger can output passive dry contact signal. ● The DO port supports a maximum of 30V/1A signal voltage. The NC/COM means normally closed contact, and NO/COM means normally open contact. ● It is recommended to keep the signal transmission distance within 10 meters.



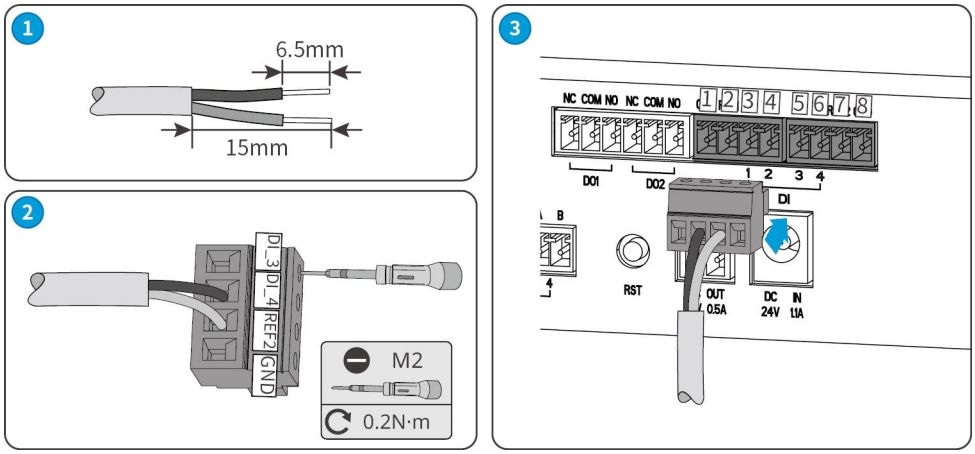
6.8. Connecting the DI Communication Cable

NOTICE

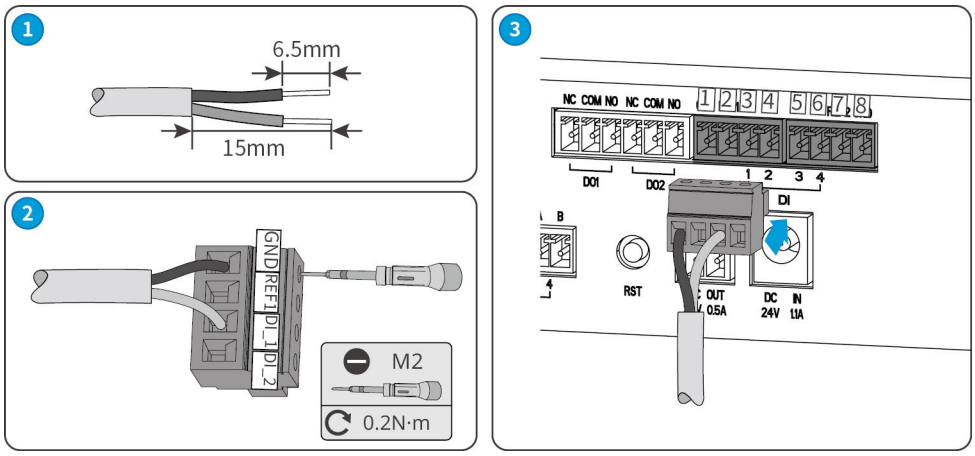
- The EzLogger offers Demand Response Enabling Device(DRED) signal control port, meeting DRED certification requirements in Australian and other regions.
- The EzLogger offers Ripple Control Receiver (RCR) signal control port, meeting requirements in German and other regions.
- The EzLogger offers Over Voltage Ground Relay(OVGR)/Reverse Power Relay(RPR) signal control port, meeting the requirements of different application scenarios in Japan and other regions.
- The EzLogger can receive passive dry contact signal or active wet contact signal. Supported voltage range of active contact: 0-12V, and 8-12V means high level.
- It is recommended to keep the signal transmission distance within 10 meters.



Passive dry contact



Active wet contact



Passive dry contact				Active wet contact			
Function	Silkscreen		Port definition	Function	Silkscreen		Port definition
DI1	-	REF1	REF1	DI1	-	GND	GND
	DI	1	DI1		DI	1	DI1
DI2	-	REF1	REF1	DI2	-	GND	GND
	DI	2	DI2		DI	2	DI2
DI3	-	REF2	REF1	DI3	-	GND	GND
	DI	3	DI3		DI	3	DI3
DI4	-	REF2	REF1	DI4	-	GND	GND
	DI	4	DI4		DI	4	DI4

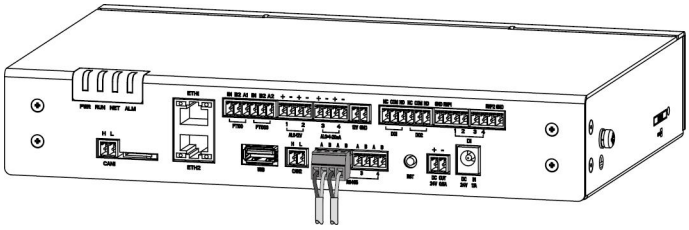
6.9. Connecting the RS485 Communication Cable

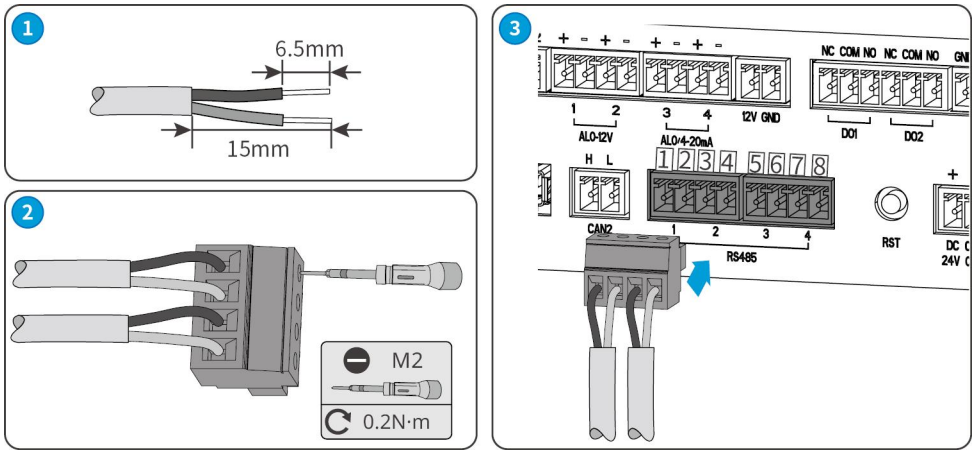
NOTICE

- The EzLogger offers RS485 communication ports for connecting RS485 communication devices, such as inverters, smart meters, or environmental monitoring instruments.
- The EzLogger offers DER_AVM signal control port, meeting requirements in Korea and other regions.
- Connect RS485A of the device to RS485A of the EzLogger, and RS485B to RS485B of the

EzLogger.

- Ensure that the shielded layer of the shielded twisted pair cable is properly grounded.





No.	Function	Silkscreen			Port definition
1	Connect to RS485 communication devices, such as inverters, smart meters, environmental monitoring instruments.	RS485	1	A	RS485_A1
2				B	RS485_B1
3			2	A	RS485_A2
4				B	RS485_B2
5			3	A	RS485_A3
6				B	RS485_B3
7			4	A	RS485_A4
8				B	RS485_B4

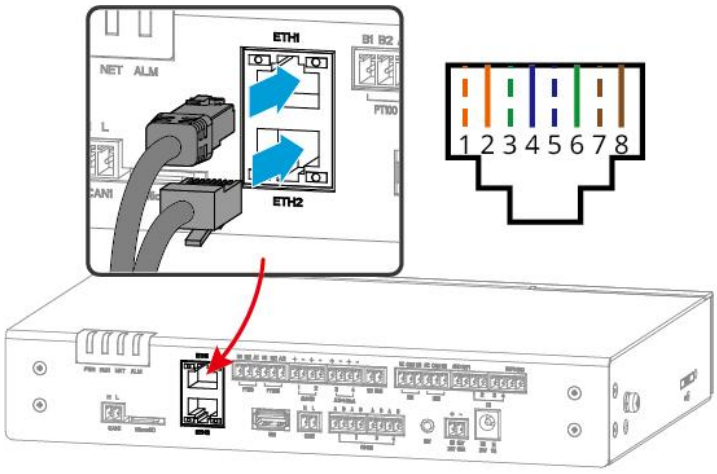
6.10. Connecting the Ethernet Cable

NOTICE

- Recommended cable specification: CAT 5E or higher outdoor shielded network cable and shielded RJ45 connector.
- ETH1 is designed for network communication. The default IP mode of EHT1 is dynamic IP

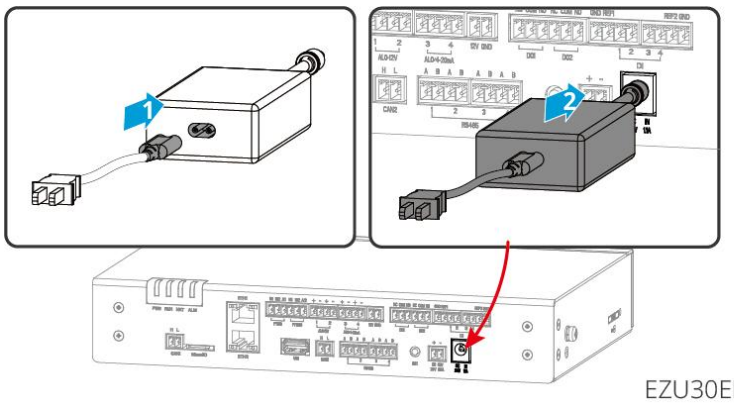
mode, which allows access of router, switch, and so on.

- ETH2 is designed for network communication or embedded web connection. The default IP mode of EHT2 is dynamic IP mode, with a virtual IP: 172.18.0.12. The Ethernet cable is used for connecting a router or a Ethernet switch, or connecting a PC for embedded web configuration.
- ETH1 port IP, ETH2 port IP and the default virtual IP cannot share the same network segment.
- Refer to section Setting the Port Parameters for more details about modifying IP parameters of ETH port.
- If the PC provides USB or Type-C port only, prepare a network port adapter to connect the EzLogger and the PC.



EZU30ELC0003

6.11. Connecting the 24V DC Output Cable



EZU30ELC0004

6.12. Connecting the Power Cable

NOTICE
• Connect the delivered power adapter to the DC input port to supply power to the

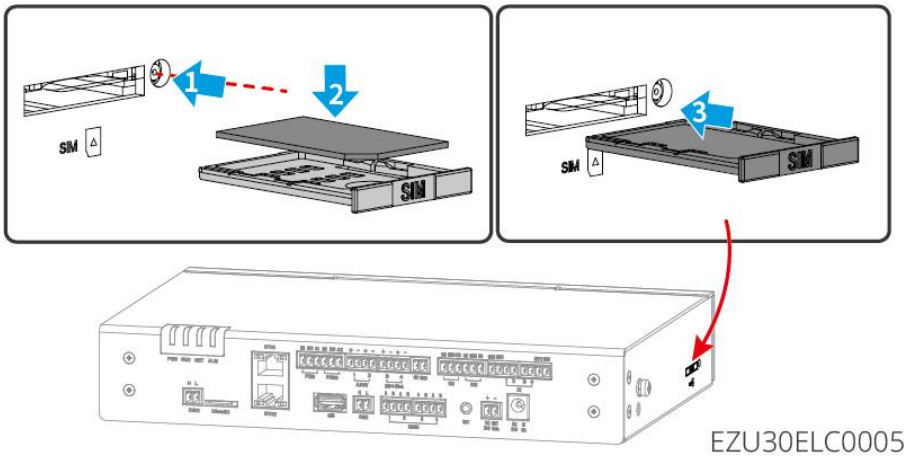
EzLogger.

- Refer to actual appearance of the power adapter.
- Specification of the power adapter: Input: AC 100V~240V, 50Hz/60Hz; Output: DC 24V, 1.5A.

6.13. Installing SIM Card (Optional)

NOTICE

- Insert the SIM card for 4G functions. 4G is available in some countries and regions. Contact local distributors for more details.
- The SIM card should be prepared by customers. Standard SIM card, size 25*15mm and capacity≥64KB, is recommended. Data for single inverter should be at least 200M/month. Data for multi inverters should be 200M+100M*n/month, n is the quantity of inverters.

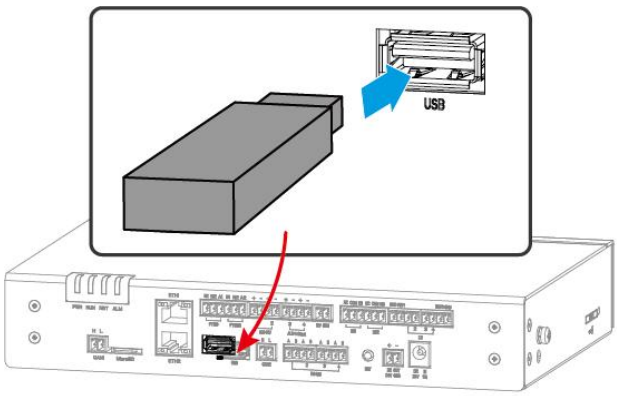


EZU30ELC0005

6.14. Installing the USB Flash Drive

NOTICE

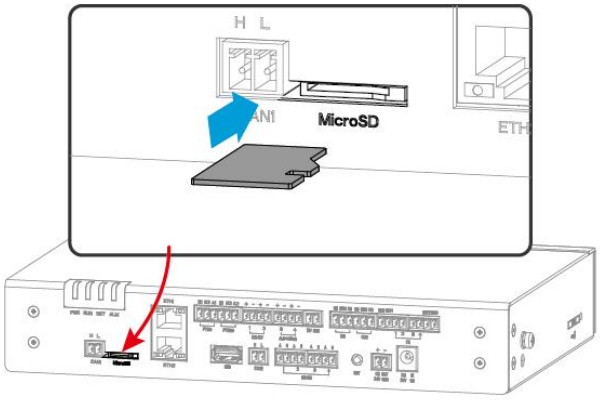
- Install the USB flash drive into the USB port to upgrade the firmware of the EzLogger. Contact the after-sales service for upgrading package.
- Prepare a FAT30 USB flash drive by yourself. The capacity of it does not exceed 32G.



EZU30ELC0006

6.15. Installing the MicroSD Card

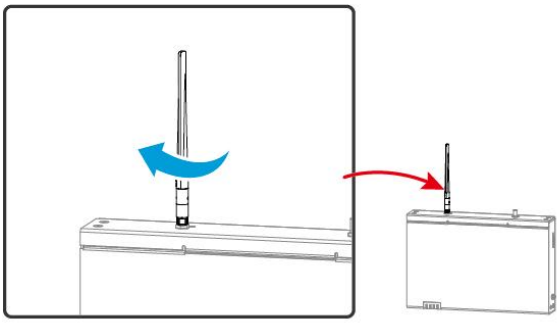
NOTICE
Install a MicroSD card to store the breakpoint data, so that the breakpoint data can be uploaded properly.



EZU30ELC0008

6.16. Installing the Antenna

NOTICE
Install the antenna properly and securely, otherwise the WiFi hotspot of the EzLogger may not be found.



EZU30ELC0009

7. System Trial Operation

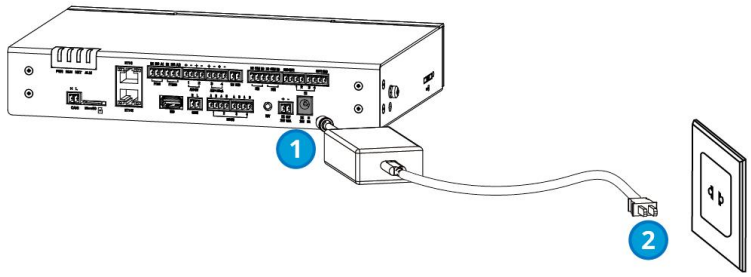
7.1. Check Before Power ON

No.	Check Item
1	The inverter is firmly installed in a clean place where is well-ventilated and easy to operate.
2	The power cable, net cable and communication cables are connected correctly and securely.
3	Cable ties are intact, routed properly and evenly.
4	The input signal status are correct and the input power parameters are within the operating scope of the equipment.

7.2. Power ON

Step 1: Connect the power adapter to the EzLogger.

Step 2: Plug the power adapter to the AC socket and turn on the switch of the socket.



8. System Commissioning

8.1. Indicator

LED Indicators

Indicator	Status	Description
PWR		Steady green: The device is powered on.
		Green off: The device power supply is abnormal.
RUN		Steady green/Green off: The device fails to work.
		Slow blinking green: The device is working properly.
NET		Steady green: Communication between the device and the server is normal.
		Fast blinking green: Communication between the device and the router is normal, but ommunication between the device and the server fails.
		Slow blinking green: Communication between the device and the router fails.
ALM		Steady red: All the connected inverters are in fault status.
		Fast blinking red: the equipment is being upgraded.
		Red off: At least one inverter in the system is working properly.

Button

RST Button	Definition
Short press 1-3s	Restart the EzLogger.
Long press 6-20s	Restart the EzLogger and restores factory default network settings.

8.2. Commissioning via Web

8.2.1. Introduction to Web UI

Log into the embedded web to set parameters of the EzLogger, check running information and alarms to get the system status information in time.

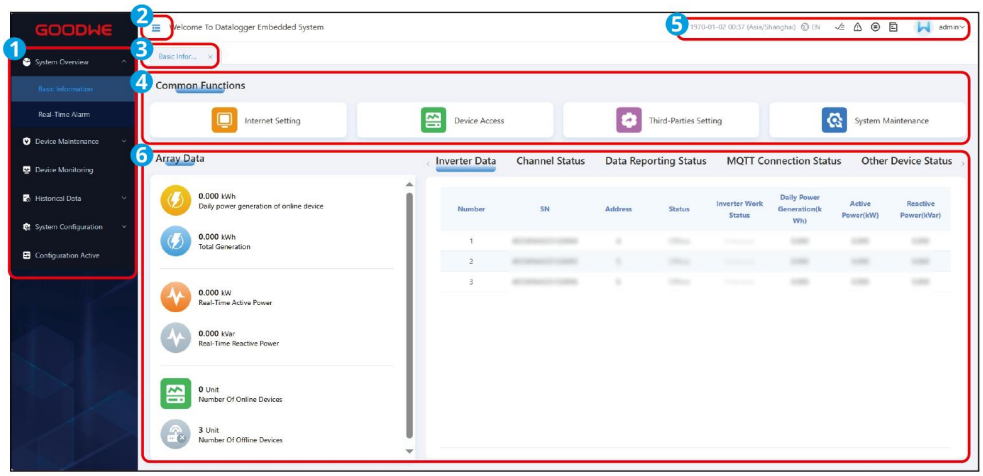
WARNING

- The web firmware version shown in this document is V6.6.1. The screenshots are for reference only. The actual display may differ.
- The name, range, and default value of the parameters are subject to change.The actual display prevails.
- When issuing reset, shutdown and upgrade commands to the inverter, the inverter may

fail to connect to the utility grid, which will affect the power generation.

- The grid parameters, protection parameters, feature parameters and power regulation parameters of the inverter shall be set by professionals. Wrong settings of power regulation parameters may cause the inverter connected to the grid improperly, thus affecting the power generation.
- To prevent the generating capacity from being influenced by wrong settings, the grid scheduling parameters shall be set by professionals.

8.2.2. Web Layout

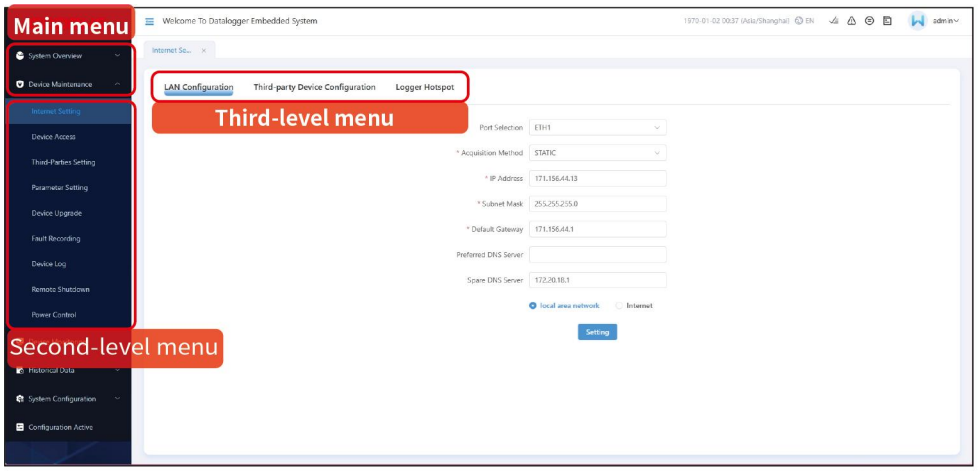


EZU30CON0011

No.	Function	Description
1	Menu list	Area for the menus. Choose the main menu, then the second-level menu will be displayed. Under some main menus, there are no second-level menu.
2	Menu list button	Click to hide or show the menu list.
3	Tag list	Displays the opened menu tags.
4	Common functions	Displays the often used functions for easy operation. The common functions can be set in the menu list.
5	System status	● Displays the system time. ● Switches the system language. ● Configuration effective button. If there is a function that has been configured but has not yet taken effect, it will be indicated by a red dot. ● Displays the alarming information. Click it to check the real-time alarms. ● Displays the version of the product.

		● Check the start guide. ● Displays the log in status. Click it to log out.
6	Power plant data	Displays the corresponding functional items or parameter setting under each menu.

8.2.3. Menu on the Web Interface



EZU30CON0012

Main menu	Second-level menu	Third-level menu	Description
System Overview	Basic Information	-	● Common functions such as Internet Setting, Device Access, Third-party Setting, System Maintenance. ● Basic information such as Power Generation of Online Device Today, Total Generation, Real-Time Active Power, Real-Time Reactive Power, Number Of Online Devices, Number Of Offline Devices.
	Real-Time Alarm	-	Displays Total Number Of Alarms, Fault Alarm Name, Device SN, and Generation Time. Click Manually Refresh to display the latest alarms.
Device Maintenance	Internet Setting	LAN Configuration	Set parameters for LAN communication.
		Third-party Device Configuration	Set RS485 parameters. Support to connect with third party equipment over RS485.
		Logger Hotspot	Set the hotspot name and password of the EzLogger.
		4G	Set parameters for 4G communication.

		Configuration	
	Device Access	-	Add inverters, smart meters and other devices by automatic searching or manually adding.
	Third-Parties Setting	IEC104	Set IEC104 parameters.
		Modbus TCP	Set Modbus-TCP parameters.
		IEEE2030.5	Set IEEE2030.5 parameters.
		Output Power Control	Set output power control parameters. Only for Japan.
	Parameter Setting	Datalogger	Set parameters of the EzLogger.
		Inverter	Set grid parameter, protection parameters, characteristic parameters, and power adjustment parameters of the inverter.
		Smart meter	Set CT ratio, mode and other parameters of the smart meter.
		MV Station	Configure remote control settings.
	Device Upgrade	Datalogger	Upgrade firmware of the EzLogger.
		Inverter	Upgrade firmware of the inverter.
	Fault Recording	-	Record and export the recorded files and logs stored when the fault occurred.
	Device Log	-	Check running log, operation log and maintenance log of the equipment, such as log in or out of the web, change password.
	Remote Shutdown	OVGR&RPR	Set OVGR&RPR parameters. Only for Japan.
		Remote Shutdown	Set remote shutdown parameters. Only for German.
		AC Power Fault Detection	Set AC power fault parameters. Only for Japan.
	Power Control	Power Limit	Set on-grid power limit parameters.
		Reactive Power Regulation	Set power factor parameters.
		DRED	Set DRM parameters. Only for Australia.
		RCR	Set RCR parameters. Only for Europe.
		DER_AVM	Set DER_AVM parameters. Only for Korea.

		Communication Error Handling	Set handle methods when the EzLogger communication exception occurs.
Device Monitoring	-	Inverter	Check parameters of the inverter
		Weather Station	Check the information of the weather station.
		Smart meter	Check the information of the smart meter.
		MV Station	Check the information of the MV station.
		IEC104	Check IEC104 parameters.
Historical Data	Historical Faults And Alarms	-	Check the historical faults and alarms.
System Configuration	System Maintenance	-	● Reset Logger ● Restoring Factory Defaults ● Import All Configuration Files ● Export All Configuration Files ●
	System Time	-	Set the way to calibrate the time, by system or manually.
	Safety Setting	-	Set security parameters like password.
	Version	-	Check the version of the EzLogger, like SN, Main Program Version, Firmware Version, Web Version, etc
Configuration Active	-	-	Click to save the parameters. Click the Configuration Active to save the settings after device access or configuration adjustments.

8.2.4. Log In

NOTICE
• All the equipment in the system are installed properly and powered on. • Before login, ensure that the equipment meets the following requirements: ○ Supports Windows 7 or above version.

- Browser: Chrome 52, Firefox 58, or above version is recommended.
- The computer's network port is connected to EzLogger's ETH port with a network cable.

- Remove the network cable after configuration.
- To ensure account security, the same account cannot log in to the Web and SolarGo App at the same time.

Method one: log into the web using the default IP

Step 1: Connect a PC to the ETH2 port of the EzLogger using a network cable.

Step 2: Select “Network and Internet” > “Change Adapter” on your computer system. In the Network Connections dialog box that appears, right-click and click Properties to configure the IP address of the computer and the EzLogger on the same network segment.

No.	IP Parameter	Default value of the EzLogger	Example value of the Computer
1	IP address	172.18.0.12	172.18.0.22
2	Subnet Mask	255.255.255.0	255.255.255.0
3	Default Gateway	172.18.0.1	172.18.0.1

Step 3: Enter http://172.18.0.12 in the address bar of the web browser and press Enter.

Step 4: Select the language according to the actual demanding. Log in with the initial account and password. Initial account: admin. initial password: 123456.

Method two: log into the web using the dynamic IP

Step 1: Connect the PC and the EzLogger to a router at the same time.

Step 2: Check the IP address assigned to the EzLogger on the router management page.

Step 3: Enter the assigned IP in the address bar of the web browser and press Enter.

Step 4: Select the language according to the actual demanding. Log in with the initial account and password. Initial account: admin. initial password: 123456.

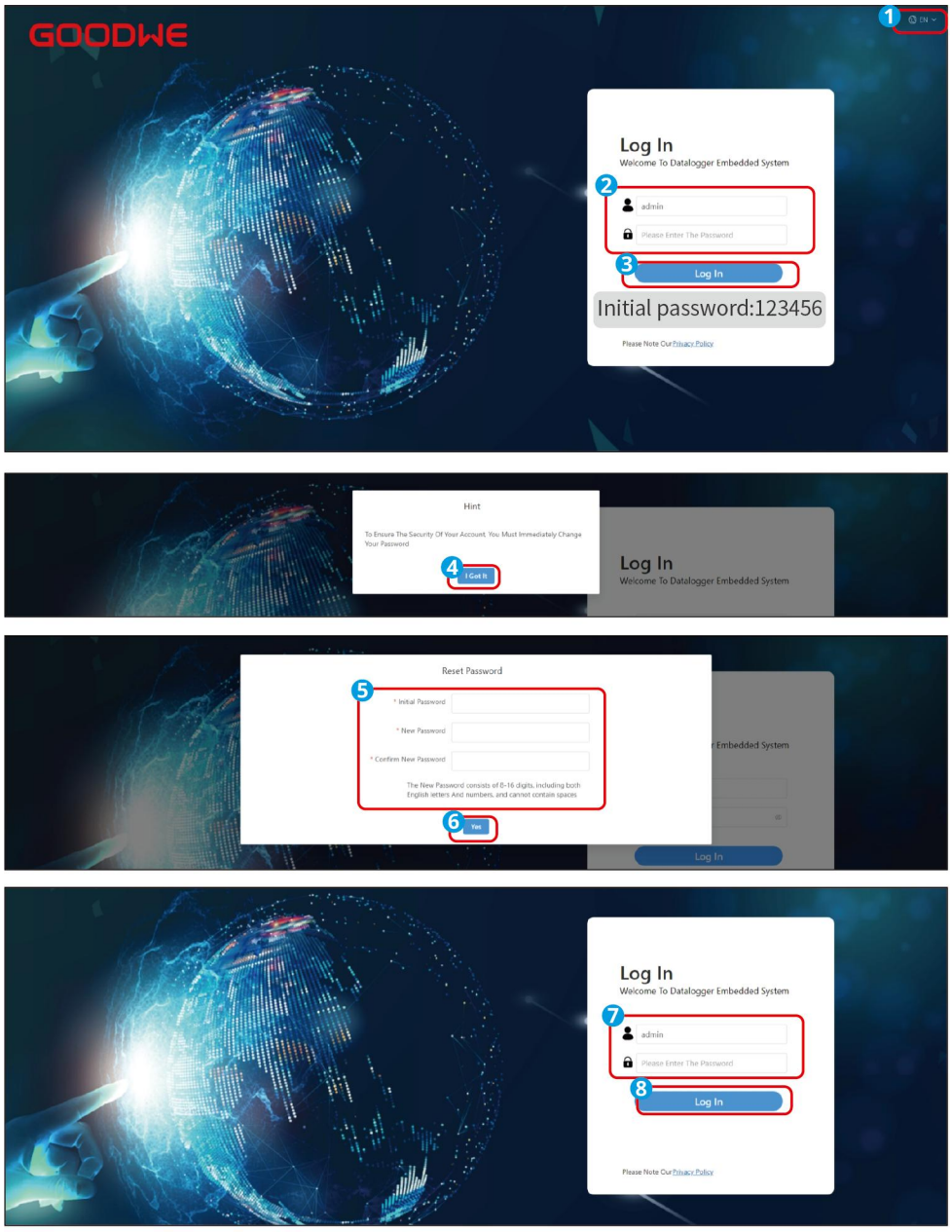
Method three: log into the web using WiFi hotspot

Step 1: Connect to the default WiFi name of the EzLogger. Default WiFi: Log-***,*** means serial number of the EzLogger. Initial password: 12345678.

Step 2: Enter http://172.18.0.12 in the address bar of the web browser and press Enter.

Step 3: Select the language according to the actual demanding. Log in with the initial account and password. Initial account: admin. initial password: 123456.

NOTICE
• Use the initial password to log in. Change the password as soon as possible and keep it in mind. To ensure the security of the account, it is recommended to change the password regularly. • If the user forget the password, press and hold the RST button to restore the initial password.



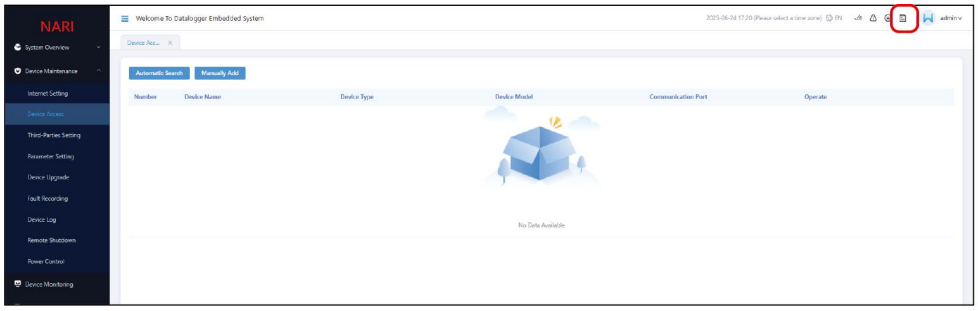
EZU30CON0014

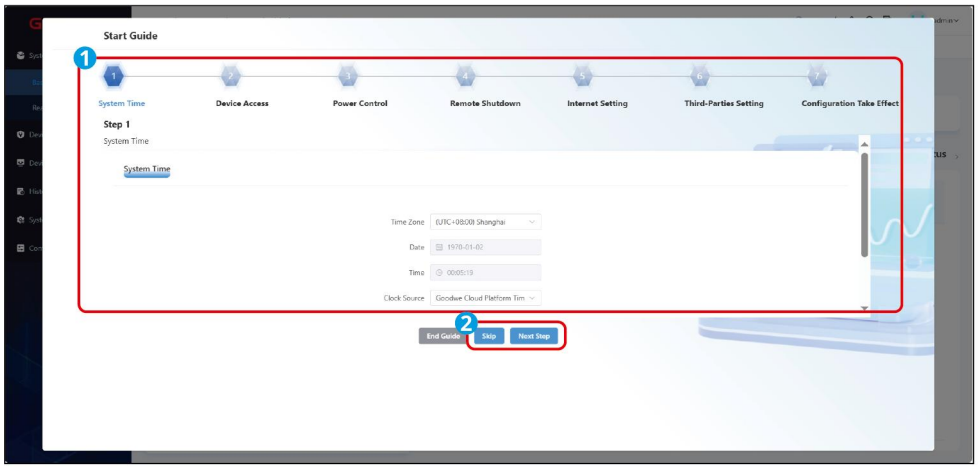
8.2.5. Setting Start Guide

- When logging in for the first time, the interface will prompt the user to quickly configure the system via **Start Guide**. Configure based on prompts and actual needs. Support: Device Access, Power Control, Remote Shutdown, Third-Parties Setting.
- If there is no need to configure the system temporarily, click **End Guide**. If there is no need to configure a certain function, click **Skip**.
- For details of setting functions, refer to function explanation in corresponding chapters.

Step 1: When logging in for the first time, the user can enter into the “Start Guide”. If the user exits start guide, click  and enter again.

Step 2: When setting parameters, click “Previous Step”, “Next Step” and “Skip” for setting based on actual needs.





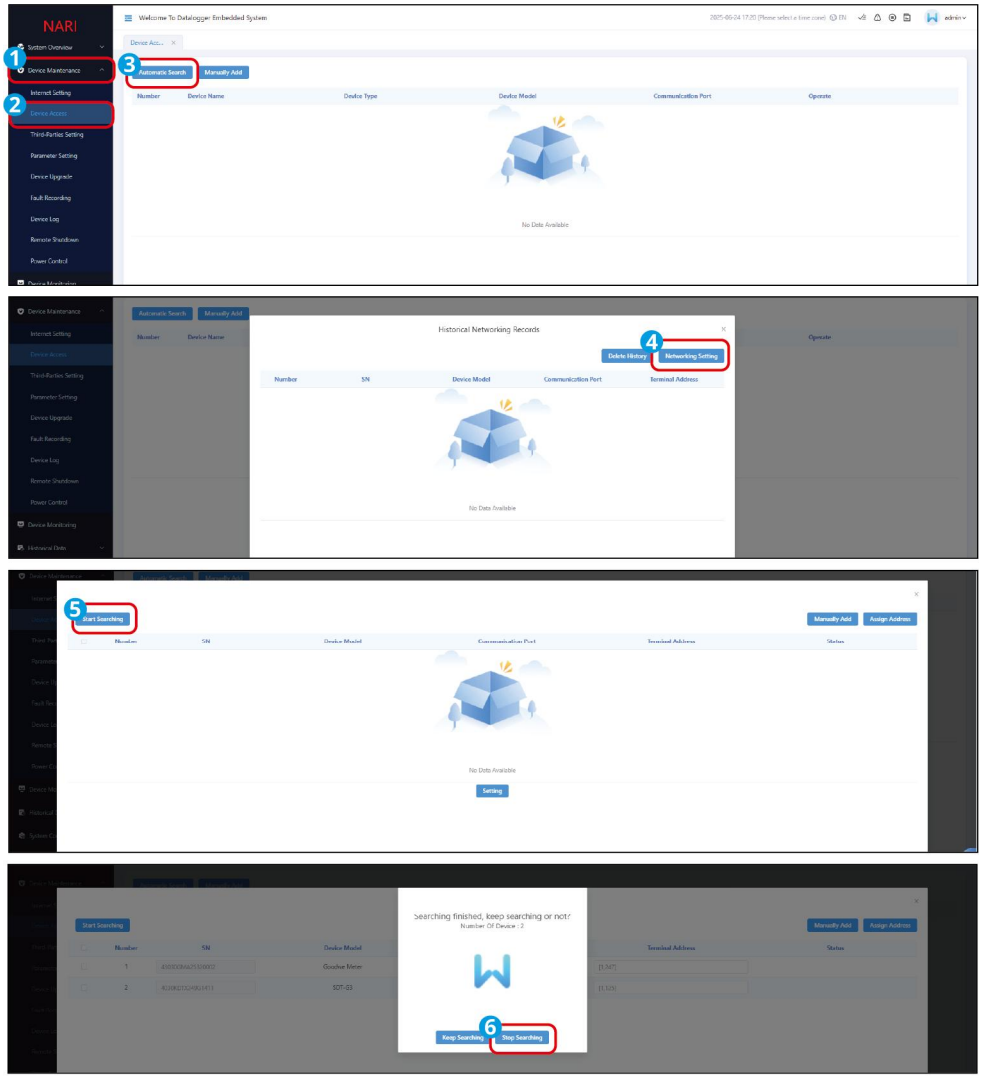
EZU30CON0021

8.2.6. Manage the Device

8.2.6.1. Add Devices via Automatic Search

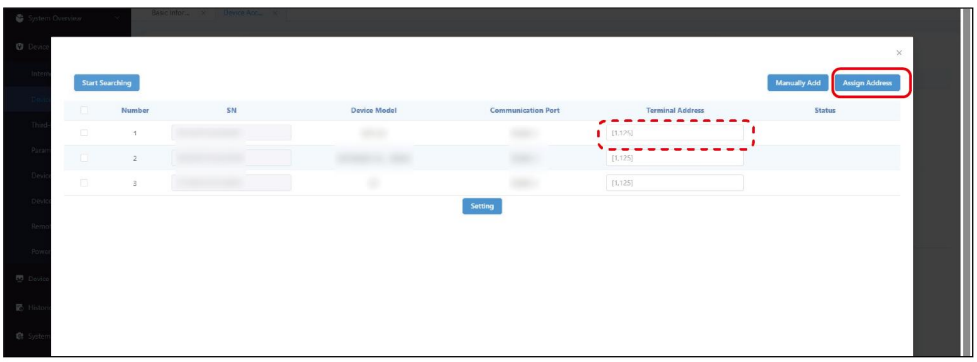
NOTICE
Third party devices like smart meter cannot be found by **Automatic Search**, add the third party device via **Manually Add**.

Step 1: Follow the steps below to search for devices, click “Stop Searching” when the number of devices searched matches the actual number of devices. Check the RS485 wiring if any devices cannot be found.



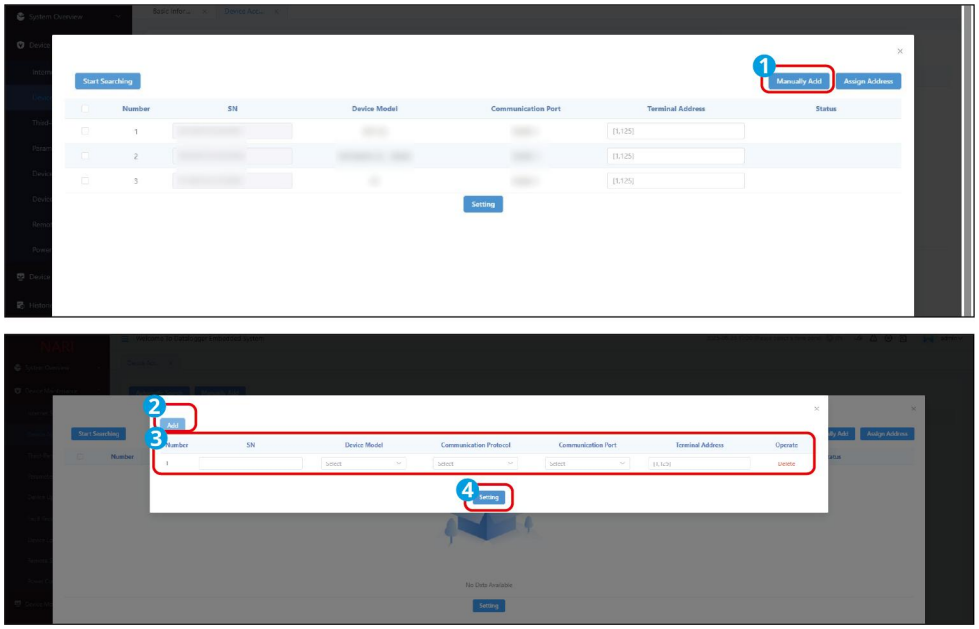
EZU30CON0048

Step 2: Input the terminal address manually or click “Assign Address” based on actual need. Make sure the terminal address of all devices do not repeat. The range of inverter address: 1-125, smart meter address: 1-247.



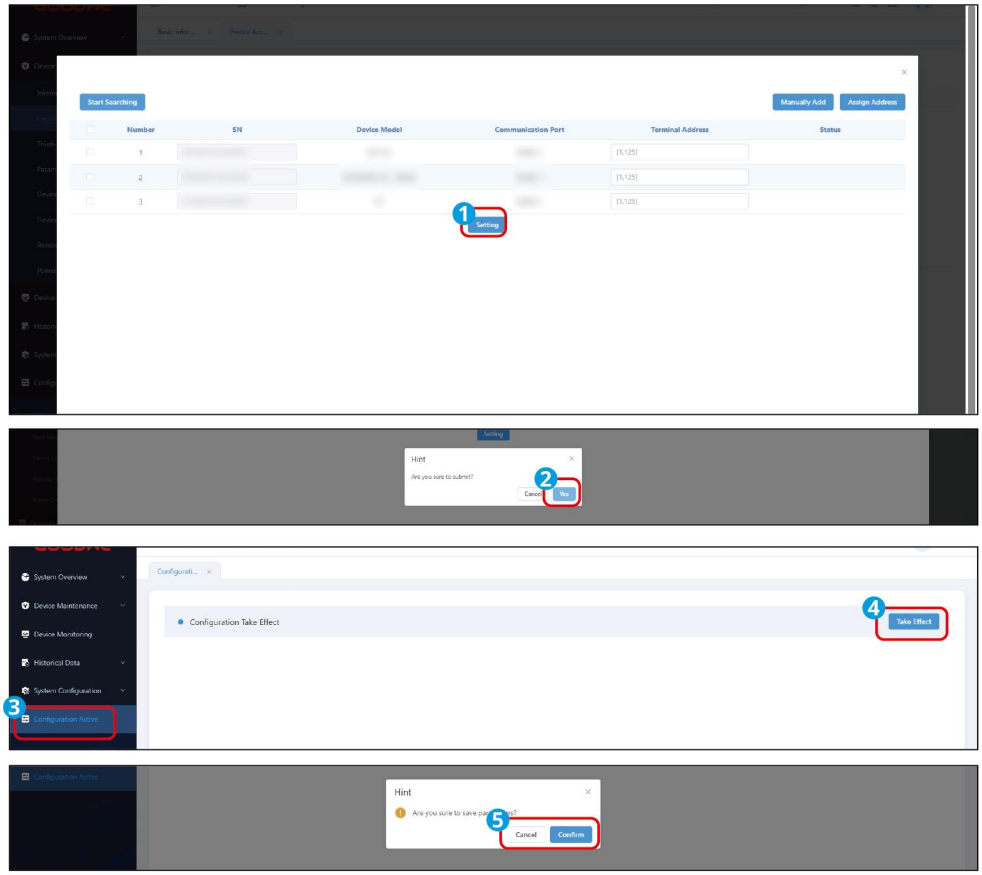
EZU30CON0049

Step 3: (Optional) Add devices by filling in the device information manually if needed. Before adding a device, confirm the device model, device SN, and the communication port that the device is connected to.



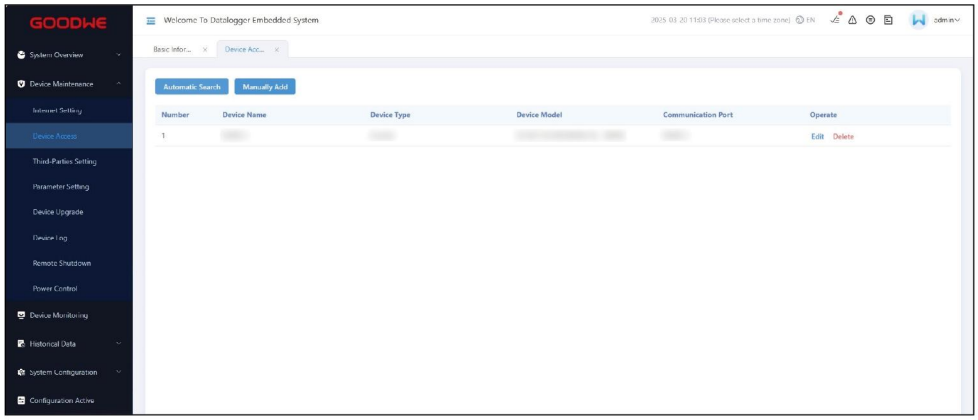
EZU30CON0050

Step 4: Click “Setting” and go to “Configuration Active” as prompted. After clicking “Configuration Active”, the EzLogger will restart. Re-login as prompted.



EZU30CON0051

Step 5: After setting the system, back to the “Device Access” page and check whether the networking information is complete and correct.



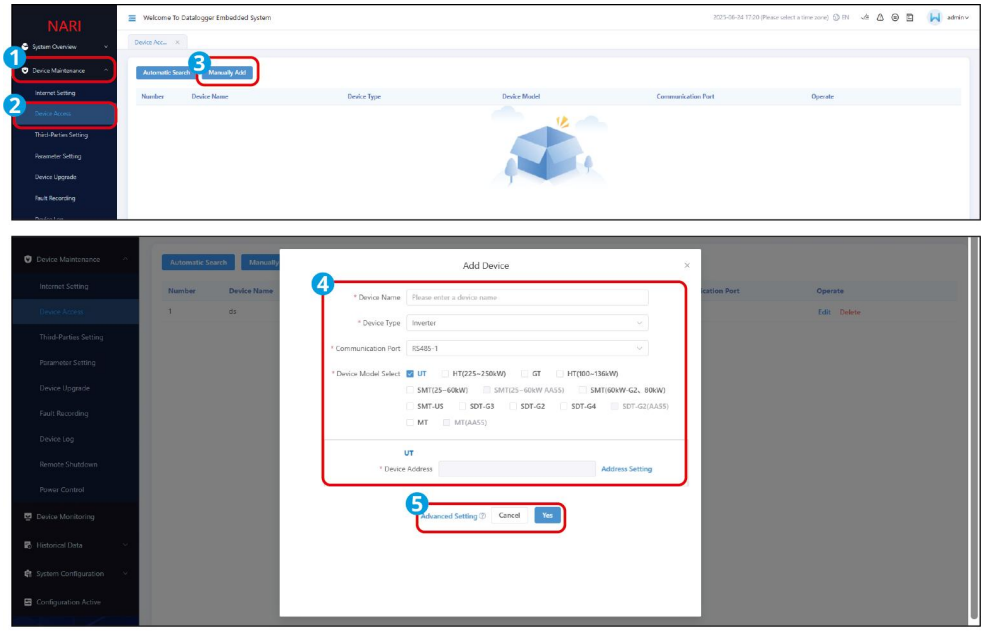
EZU30CON0052

8.2.6.2. Add Devices via Manually Add

NOTICE
• Before adding a device, confirm the device model, device SN, and the communication port that the device is connected to. Otherwise, the adding may fail. • Click Edit or Delete to modify or delete the parameters of the added devices.

Step 1: Click “Device Maintenance” > “Device Access” > “Manually Add”.

Step 2: Set the parameters based on actual needs. Click “Yes” and complete adding.



EZU30CON0038

Add an inverter

No.	Parameters	Description
1	Device	Define the device name based on actual needs.

	Name	
2	Device Type	Select the model of the connected inverter.
3	Communication Protocol	Set the parameter based on the communication protocol of the inverter. Supported: Modbus-RTU.
4	Communication Port	Select based on the actual port on the EzLogger which the inverter connected to.
5	Device Model Select	Select the actual connected inverter model. Connect inverters of different models to one port is supported. UT and HT(225~250kW) can be connected to one RS485 communication port at the same time. GT, HT(100~136kW), SMT(25~60kW), SMT(80kW), SMT-US, SDT-G3 and SDT-G2 can be connected to one RS485 communication port at the same time.
6	Terminal Address	• Set the parameter based on the actual power plant planning. Select Auto-Generate when there is no need to set the parameters based on the actual settings. • Make sure that different devices uses different address.

Add a smart meter

No.	Parameters	Description
1	Device Name	Define the device name based on actual needs.
2	Device Type	Select Smart Meter.
3	Communication Protocol	Set the parameter based on the communication protocol of the smart meter. Supported: Modbus-RTU.
4	Communication Port	Select the actual connected port on the EzLogger. Supported port: RS485-1, RS485-2, RS485-3, RS485-4.
5	Device Subtype	• This option is displayed when the communication protocol is ModbusRTU. Set this parameter based on the actual meter model. • Supported: Goodwe Meter (GM330), Schneider-IEM3255, Janitza-UMG604, PRISMA-310A Lite/ 310A*, MIKRO-DPM680, Mitsubishi-ME110SS, IRA 2.0-Bf, Acrel-DTSD1352-CT, and Others.
6	Meter Purpose	• Select based on the actual purpose. Supported: Grid Side Meter or Point Of Interconnection Meter. • Grid Side Meter: for power limiting, supports Goodwe Meter(GM330), UMG604PRO and Acrel-DTSD1352. • Point Of Interconnection Meter: for metering, supports Schneider-IEM3255.

		• When several smart meters are connected in the system for power limit, set all meters for power limit as grid side meters.
7	Terminal Address	• Device address. Set the parameter based on the actual power plant planning. Select Auto Generate when there is no need to set the parameters based on the actual settings. • Do not set the address of smart meters same as that of inverters.
8	Access Point Table	Select the point table based on actual situation.

Add other devices

No.	Parameters	Description
1	Device Name	Define the device name based on actual needs.
2	Device Type	Select Other Devices.
3	Communication Protocol	Select based on the communication protocol of the device. Supports Modbus-RTU, Modbus-TCP, GW-XPH and 104 master.
When the Communication Protocol is Modbus-RTU, set the following parameters based on actual situation:		
4	Communication Port	Select the actual connected port on the EzLogger. Supported port: RS485-1, RS485-2, RS485-3, RS485-4.
5	Device Model Select	Device Subtype Support: Weather Station, MV Station or Other.
6	MV Station Sub-Type	If the Device Subtype is MV Station, set the MV Station Sub-Type to General or Distributed.
7	Terminal Address	Device address. Set the parameter based on the actual power plant planning. Make sure that different devices uses different address.
8	Protocol Type	Set the protocol type based on the actual situation.
9	Access Point Table	Import the access point table of the connected device.
10	IEC104 Forwarding	Select the forwarding table based on actual situation.
11	Modbus TCP Forwarding	Select the forwarding table based on actual situation.
When the Communication Protocol is Modbus-TCP, set the following parameters based on actual situation:		

13	Communication Mode	Set the communication mode based on actual situation. Supported: UDP, TCPClient and TCP Server.
14	Local IP address	Set the IP address of the net port of the EzLogger.
15	Local Port	• Set the port number of the EzLogger. Default value: 502. • For GoodWe devices, set it to default value. For third party devices, set it to actual values.
16	Remote IP address	Set the IP address of the added device.
17	Remote Port	• Set the port number of the added device. If the number is no fixed, set it to be 0. • For GoodWe devices, set it to default value. For third party devices, set it to actual values.
18	Terminal Address	• Device address. Set the parameter based on the actual power plant planning. Select Auto Generate when there is no need to set the parameters based on the actual settings.If no specific setting is required, it can be generated automatically. • Make sure that different devices uses different address.
When the Communication Protocol GW-XPH, set the following parameters based on actual situation:		
19	Communication Port	Select the actual connected port on the EzLogger. Supported port: RS485-1, RS485-2, RS485-3, RS485-4.
20	Terminal Address	• Device address. Set the parameter based on the actual power plant planning. • Make sure that different devices uses different address.
When the Communication Protocol is 104 master, set the following parameters based on actual situation:		
21	Local IP address	Set the IP address of the net port of the EzLogger.
22	Local Port	Suggested to be set as 0.
23	Remote IP address	Set the IP address of the remote device collected via 104 master.
24	Remote Port	Set the port number of the remote device collected via 104 master.
25	Remote Public	Set the 104 public address of the remote device collected via

	Address	104 master.
26	Source Address	Set the 104 source address of the EzLogger.
27	Access Point Table	Set the 104 protocol point table applied by the remote device.
28	IEC104 Forwarding	The EzLogger forwards 104 address mapping table applied by the remote device data.
29	Modbustcp forwarding	The EzLogger forwards modbustcp address mapping table applied by the remote device data.
30	MV Station Power Mapping	Set the power data mapping table of the remote device.

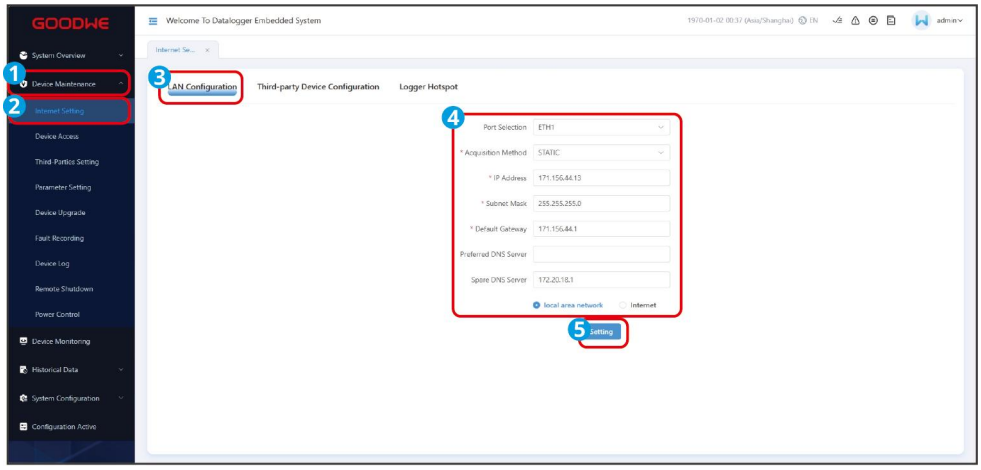
8.2.7. Setting the Port Parameters

NOTICE
The default network parameters will be displayed based on actual settings. Configure the parameters according to actual needs if necessary.

8.2.7.1. Setting LAN Parameters

Step 1: Click “Device Maintenance” > “ Internet Setting” > “LAN Configuration”.

Step 2: Set the ETH parameters based on actual needs.



EZU30CON0017

No.	Parameters	Description
1	Port Selection	Select the connected network port of the EzLogger. Supported: ETH1 or ETH2.
2	Acquisition Method	• Manually set the fixed network parameters based on actual situation when selecting STATIC mode. • The IP address can be obtained automatically when selecting

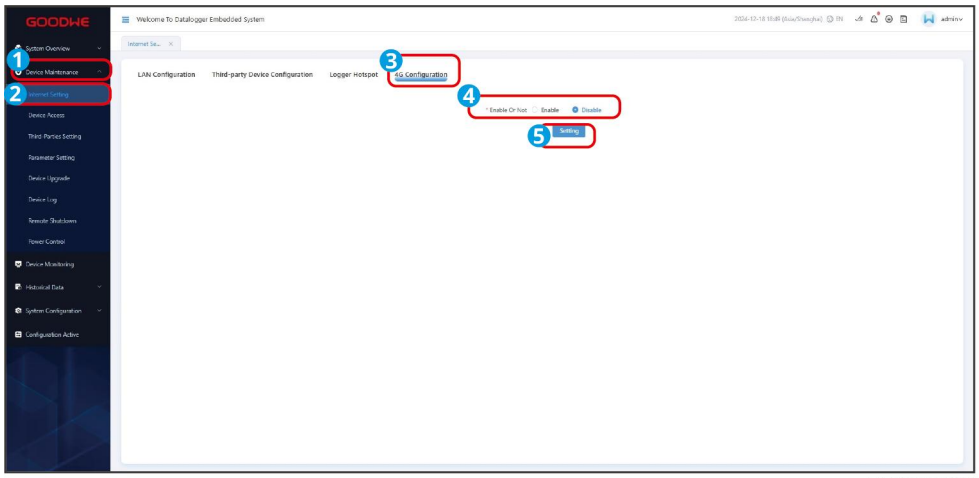
		DHCP mode.
3	IP address	Set the IP address of the EzLogger. Set the IP address on the same network segment as the router IP address, and based on the power plant planning. If the IP address is modified, log in with the new IP address.
4	Subnet Mask	Set the subnet mask of the EzLogger. Set the parameter based on the actual subnet mask of the router connected to the EzLogger.
5	Default Gateway	Set the default gateway of the EzLogger. Set the parameter based on the actual gateway of the router connected to the EzLogger.
6	Preferred DNS Server	Set the parameter as the IP address of the LAN's router when connecting to a public network, for example, connecting to GoodWe server, using a domain name for the server address.
7	Spare DNS Server	Ignore this parameter in common situations. When the preferred DNS server fails to resolve a domain name, use the alternate DNS server.
8	Local area network/Internet	● Select Internet to connect to the server and transfer data to the cloud. ● Select Local area network to connect to the third party monitoring platform.

8.2.7.2. Setting 4G Parameters

NOTICE
● 4G is available in some countries and regions. Contact local distributors for more details. ● Disconnect the network cable between the EzLogger and the router after enabling 4G communication. Otherwise, the communication may fail.

Step 1: Click "Device Maintenance" > " Internet Setting" > "4G Configuration".

Step 2: Set the APN parameters based on actual needs.



EZU30CON0016

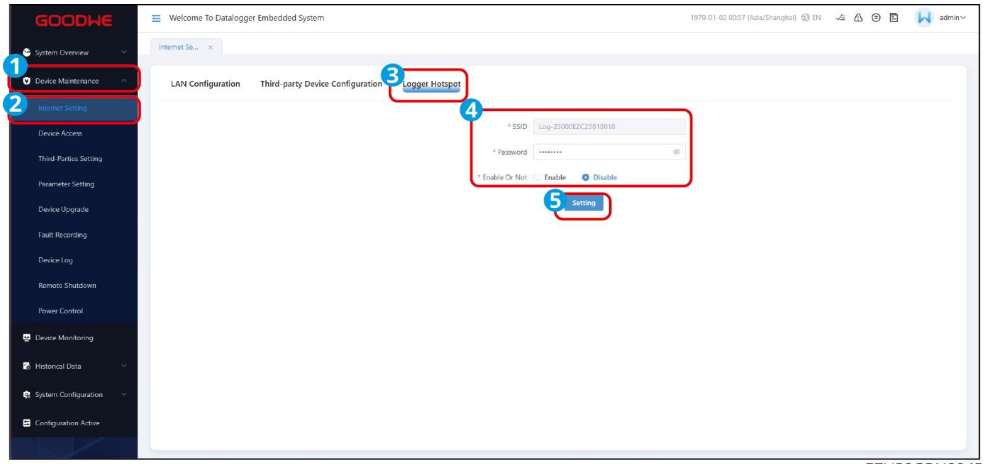
No.	Parameters	Description
1	Enable Or Not	Enable or disable 4G function. Applicable only when the EzLogger accesses the system over the 4G network.
2	APN	Select the operator based on actual situation.

8.2.7.3. Setting WiFi Password and SSID

NOTICE
● The EzLogger provides a WiFi hotspot signal for local configuration. After connecting to the WiFi hotspot signal, you can commission the device through the web page or SolarGo App. ● The SSID and password of the hosspot can be changed. After the change, log in to the web or App again using the new SSID and password.

Step 1: Click “Device Maintenance” > “ Internet Setting” > “Logger Hotspot”.

Step 2: Set the SSID and password.



EZU30CON0045

No.	Parameters	Description
1	SSID	Hotspot signal name of the EzLogger. Default name: Log-***.
2	Password	Hotspot password of the EzLogger. Default password: 12345678.
3	Enable Or Not	Turn on or off the hotspot signal.

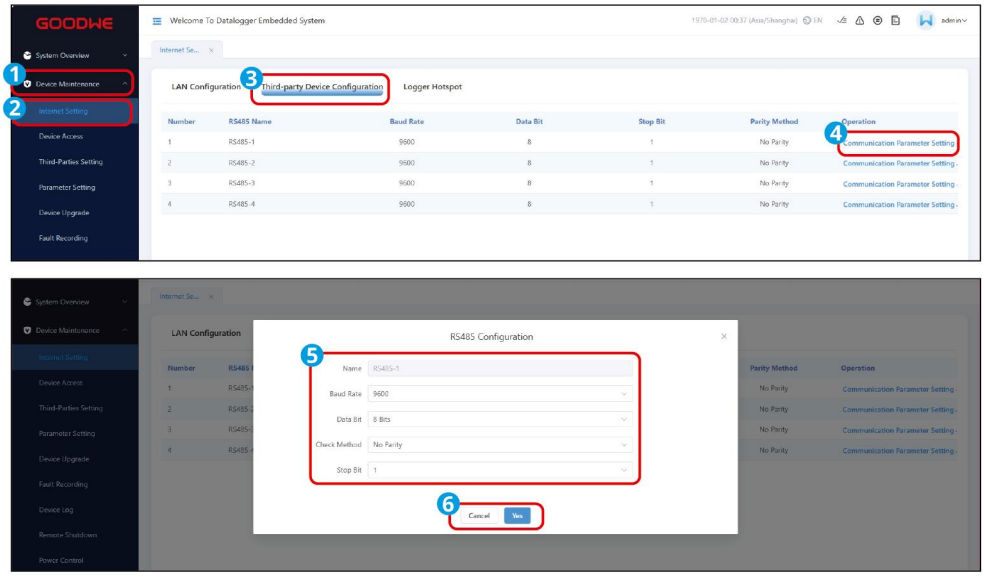
8.2.7.4. Setting RS485 Parameters

NOTICE

Configure the RS485 parameters when connecting third-party devices. For GoodWe devices, keep the default settings.

Step 1: Click “Device Maintenance” > “ Internet Setting” > “Third-party Device Configuration”.

Step 2: Set RS485 parameters based on actual needs.



EZU30CON0018

No.	Parameters	Description
1	Name	Select the actual connected RS485 port of the device.
2	Baud Rate	Set according to the baud rate of the connected equipment. Supported baud rate: 300, 1200, 2400, 4800, 9600, 19200.
3	Data Bit	Supported value: 7 bits or 8 bits.
4	Parity Method	Set according to the parity check method of the connected equipment. Supported values: No Parity, Odd Parity, Even Parity, 1 Parity, or 0 Parity.
5	Stop Bit	Set according to the stop bit of the connected equipment. Supported values: 1, 1.5, and 2.

8.2.8. Setting Third-party Parameters

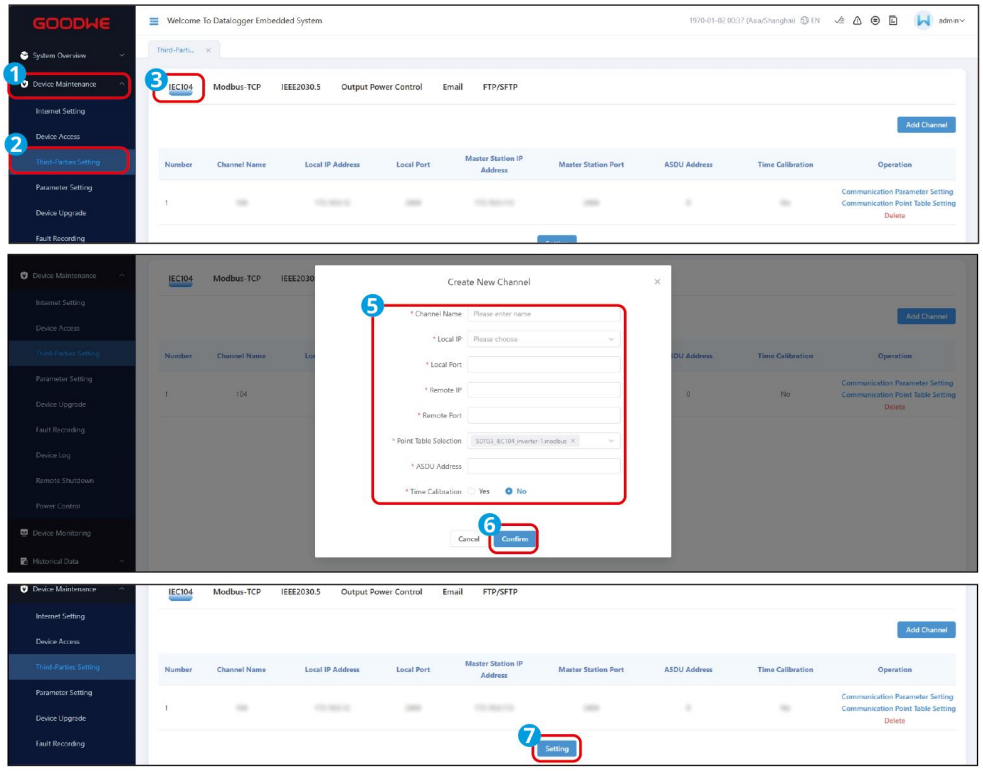
Set the third-party configuration parameters to forward the data collected by the EzLogger to a third party management platform.

8.2.8.1. Setting IEC104 Parameters

Set IEC104 parameters when the EzLogger is connected to a management system through the IEC104 protocol.

Step 1: Click “Device Maintenance” > “Third-Parties Setting” > “IEC104”.

Step 2: Set IEC104 parameters based on actual needs.



EZU30CON0006

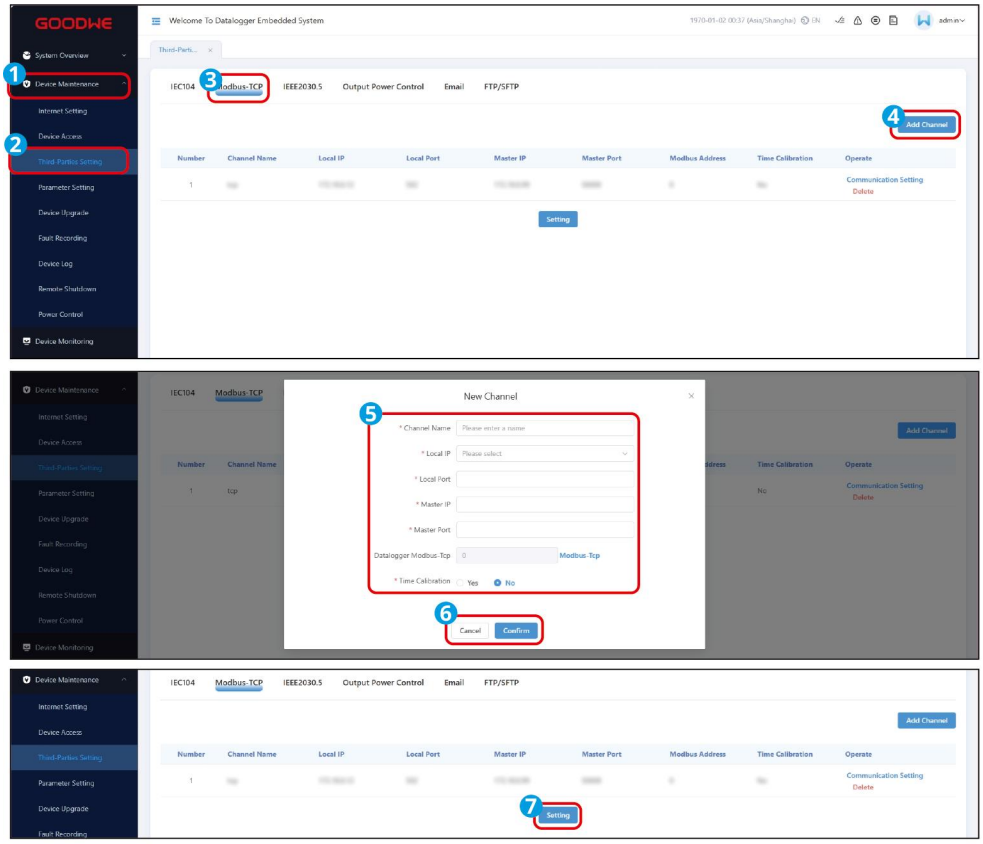
No.	Parameters	Description
1	Channel Name	Define the device name based on actual needs.
2	Local IP	Set the IP address of the EzLogger.
3	Local Port	Set the port number of the EzLogger. Default value: 2404.
4	Remote IP	Set the IP address of the IEC104 management system.
5	Remote Port	Set the port number of the IEC104 management system. Set it to 0 if the remote port number is not fixed.
6	Point Table Selection	Select the access point table.
7	ASDU address	• After importing the point table, the point table of the management system can be mapped when the setting the third party configuration. Select the parameter based on the actual situation. • Default value: 1.
8	Time Calibration	Set time calibration with the remote device or not based on actual situation.

8.2.8.2. Setting Modbus-TCP parameters

Set Modbus-TCP parameters when EzLogger is connected to a management system through the Modbus-TCP protocol.

Step 1: Click “Device Maintenance” > “Third-Parties Setting” > “Modbus-TCP”.

Step 2: Set Modbus-TCP parameters based on actual needs.



EZU30CON0008

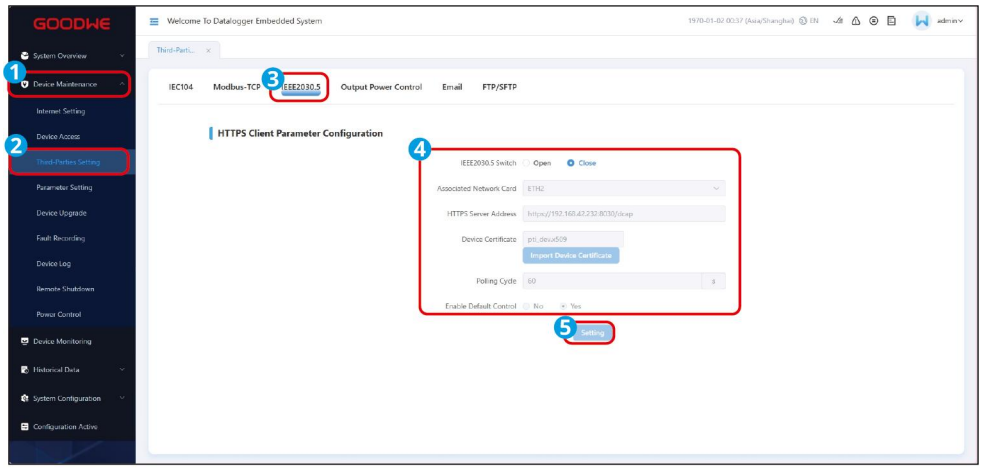
No.	Parameters	Description
1	Channel Name	Define the device name based on actual needs.
2	Local IP	Set the IP address of the EzLogger.
3	Local Port	Set the port number of the EzLogger. Default value: 502.
4	Mater IP	Set the IP address of the Modbus-TCP management system.
5	Master Port	Set the port number of the Modbus-TCP management system.
6	Datalogger Modbus-TCP	Set the address of the Modbus-TCP management system.
7	Time Calibration	Set time calibration with the remote device or not based on actual situation.

8.2.8.3. Setting IEEE2030.5 Parameters

According to laws and regulations in North America and other regions, set the IEEE2030.5 parameters when the devices are communicating through IEEE2030.5 protocol.

Step 1: Click “Device Maintenance” > “Third-Parties Setting” > “IEEE2030.5”.

Step 2: Set IEEE2030.5 parameters based on actual needs.



EZU30CON0007

No.	Parameters	Description
1	IEEE2030.5 Switch	Enable or disable IEEE2030.5.
2	Associated Network Card	Set the forwarding network port for IEEE2030.5 based on actual situation.
3	HTTPS Server Address	Set the HTTPS server address based on actual situation.
4	Device Certificate	Import the device certificate.
5	Polling Cycle	Set the polling cycle.
6	Enable Default Control	Enable or disable IEEE2030.5 default control.

8.2.8.4. Setting Output Power Control Parameters

According to the requirements of Japan and other regions, set output control parameters when the device needs to communicate with utility grid company to realize output control function.

Step 1: Click “Device Maintenance” > “Third-Parties Setting” > “Output Power Control”.

Step 2: “Remote Output Control Switch” is disabled by default. For full self-consumption scenarios, keep this switch disabled. If you have a power sales agreement with the utility company, enable the “Remote Output Control Switch” as required by the utility, then proceed to Steps 3-10 to complete parameter configuration.

Step 3: Click "Controlled Area" and select the applicable region from the dropdown menu.

Step 4: Set the “Output Control Time”.

Step 5: Enter the “Power Plant ID” provided by the utility company.

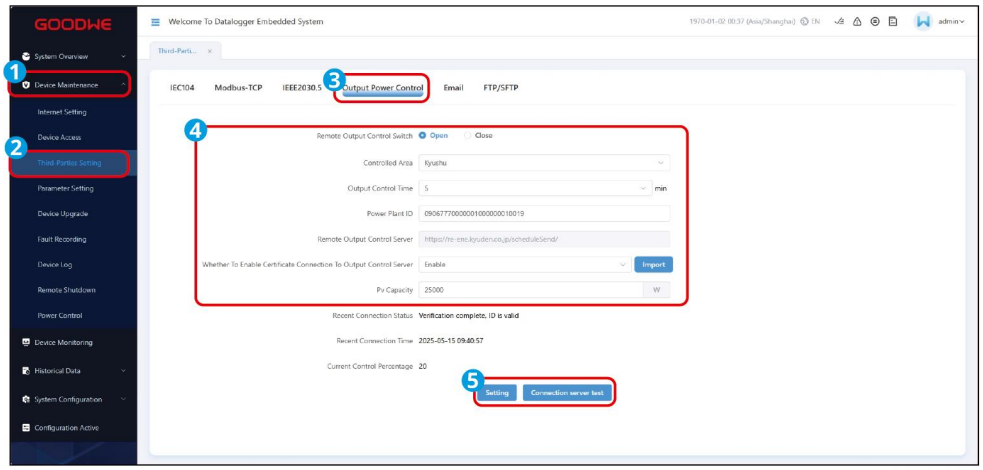
Step 6: To import a certificate, click "Whether To Enable Certificate Connection To Output Control Server" and select "Enable" from the dropdown. Ensure the root certificate (obtained from GoodWe) is saved to your computer desktop. Click "Import" to load the certificate into the system.

Step 7: Enter the “Contract Capacity” agreed with the utility company. Account and password authentication may be required during this step.

Step 8 (Optional): Click "Surplus Power Purchase" and select "Enable" to activate this function. When enabled, the inverter’s output power for self-consumption will not be restricted by output control.

Step 9: After verifying all settings, click "Setting".

Step 10: Click "Connection Server Test" at the bottom of the interface. If the ID is valid and the latest connection time and current control percentage are displayed, the communication test is successful.



EZU30CON0013

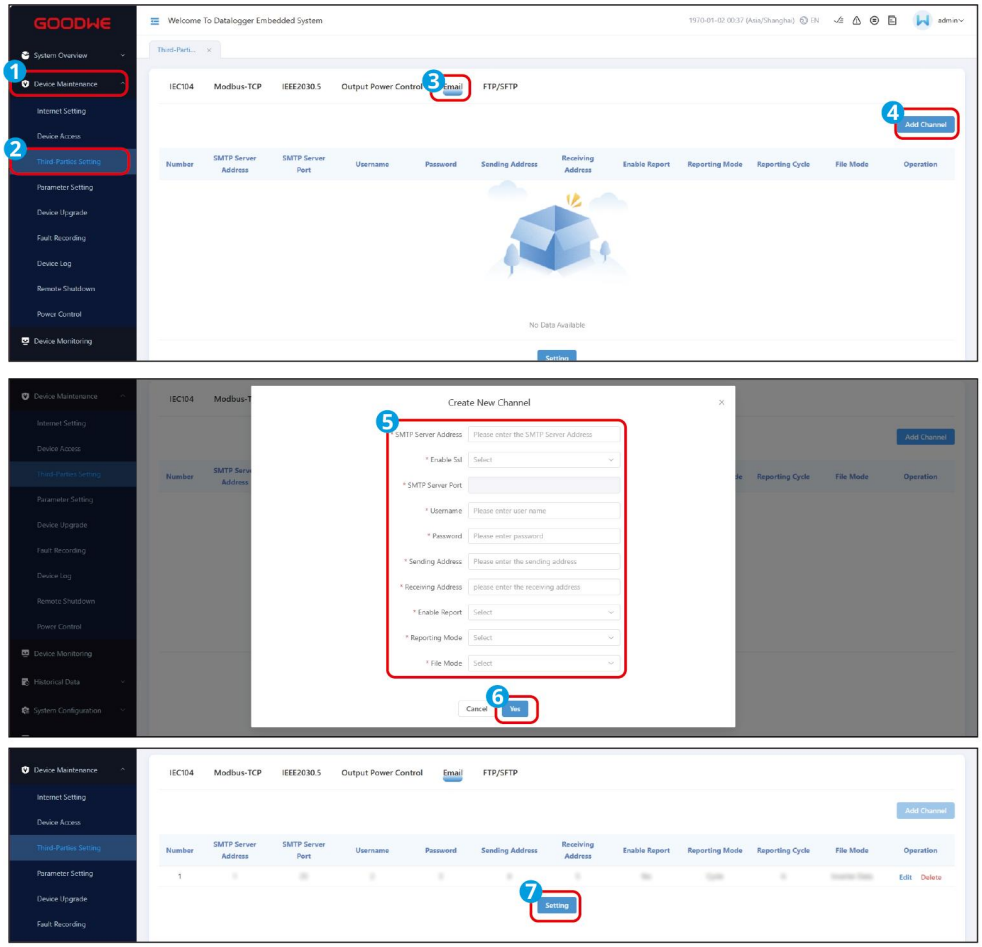
No.	Parameters	Description
1	Remote Output Control Switch	Enable or disable the output control function.
2	Controlled Area	Set the output control area. Supported: None, Kyushu, Chubu, Kansai, Shikoku, Hokkaido, Tokyo, Tohoku, etc.
3	Output Control Time	Set the output control time, which defines the duration for the inverter's output power to ramp from 0% to 100% or from 100% to 0%.
4	Power Plant ID	The ID assigned to the plant by the utility grid company after connecting its server.
5	Remote Output Control Server	The Remote Output Control Server will be generated automatically after setting the control region.
6	Surplus Power Purchase	Enable or disable the surplus power purchase function. When enabled, excess power generated by the system (after meeting local load demand) can be sold to the grid.

7	Whether To Enable Certificate Connection To Output Control Server	Choose whether to import and enable the certificate based on actual needs.
8	Contract Capacity	Enter the contract capacity agreed upon with the utility company. Account and password authentication may be required during this step.
9	PV Capacity	Set the AC capacity limit feeding to the grid. Account and password authentication may be required during this step.
10	Recent Connection Status	Check the output control status.
11	Recent Connection Time	
12	Current Control Percentage	

8.2.8.5. Setting E-mail Parameters

Send emails to update current generated energy, alarms, and device status, so that users can know the working status of the plant in time.

Only 163, 126, and sina mailboxes are supported currently.



EZU30CON0047

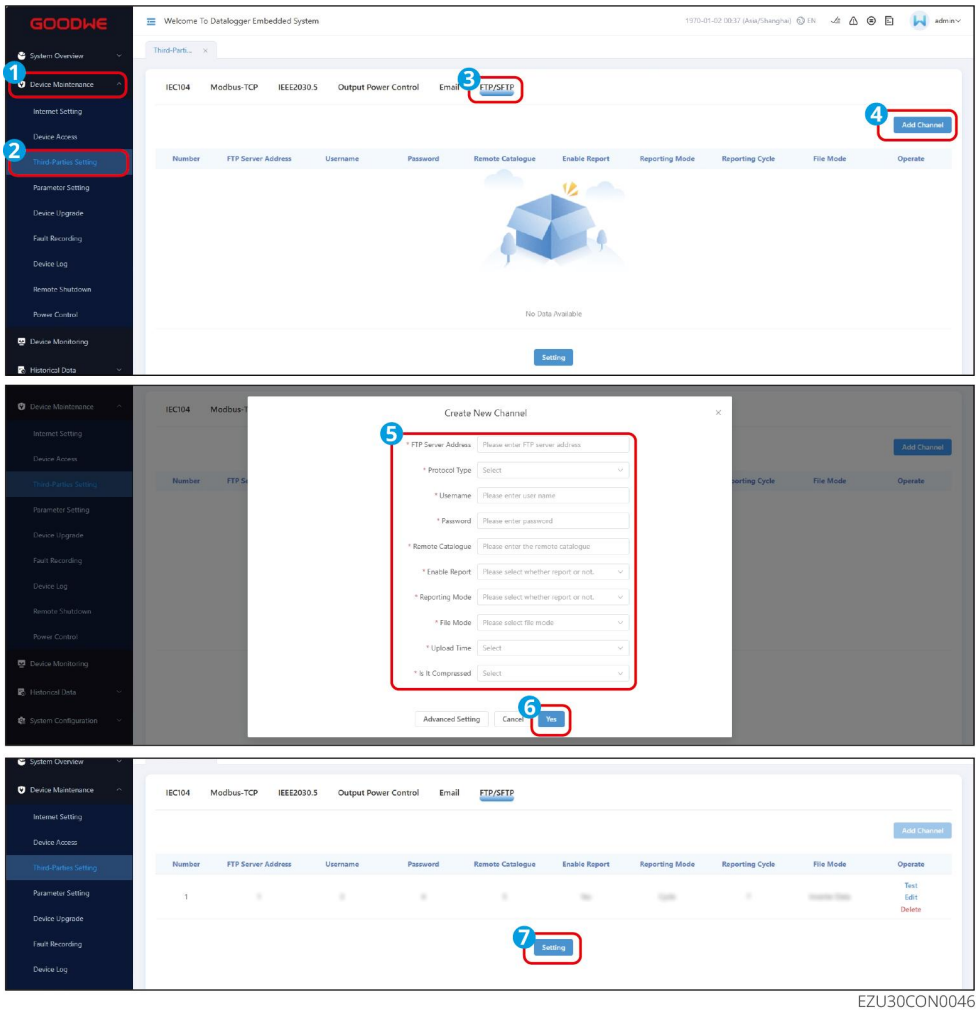
No.	Parameters	Description
1	SMTP Server Address	Set the domain name or IP address of the SMTP server.
2	Enable SSL	Set whether to enable the SSL encryption.
3	SMTP Server Port	Set the port number of the SMTP server for email sending.
4	Username	Set the user name to log into the SMTP server.
5	Password	Set the password to log into the SMTP server.
6	Sending Address	Set the sending email's address.
7	Receiving Address	Set the receiving email's address.
	Enable Report	Set whether to send the emails.
	Reporting Mode	Set the email sending mode to cycle or scheduled report. ● When the report mode is cycle report, set the cycle time to send emails. ● When the report mode is scheduled report, set the scheduled

		time to send emails.
	File Mode	Select the equipment data to be sent in the emails. Currently supported: Full Data, Inverter Data, Point Table Data, or Relay Data.

8.2.8.6. Setting FTP/SFTP Parameters

FTP/SFTP can be used to connect to the third-party management system. EzLogger can report the configuration information and running data of the managed power plant system through FTP/SFTP.

The EzLogger can be connected to the third-party network management after it is configured correspondingly.



EZU30CON0046

No.	Parameters	Description
1	FTP Server Address	Set the domain name or IP address of the FTP server.
2	Username	Set the user name to log into the FTP server.
3	Password	Set the password to log into the FTP server.

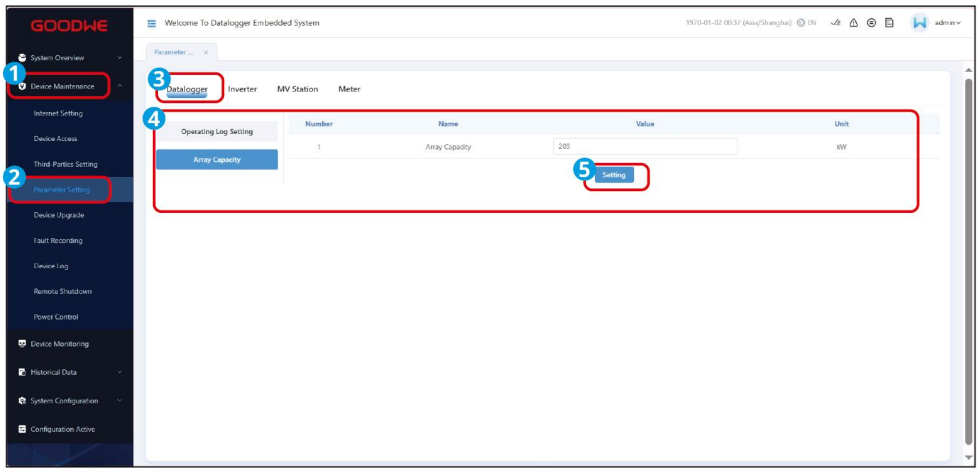
4	Remote Catalogue	Create a subdirectory with the same name under the default directory specified by the FTP server, where the data will be uploaded.
5	Enable Report	Set whether allows data reporting.
6	Reporting Mode	Set the mode for data uploading to cycle or scheduled report. ● When the report mode is cycle report, set the cycle time to send emails. ● When the report mode is scheduled report, set the scheduled time to send emails.
7	File Mode	Select the type of data to be reported. Currently supported: Full Data, Inverter Data, Point Table Data, or Relay Data.

8.2.9. Setting Device Parameters

8.2.9.1. Setting EzLogger Parameters

Step 1: Click “Device Maintenance” > “Parameter Setting” > “Datalogger”.

Step 2: Set the Datalogger parameters based on actual needs.



EZU30CON0023

Parameter Tab	Parameters	Description
Operating Log Setting	Log File Size	Set the size and quantity of log files to be stored according to the actual demanding.
	Log File Number	
Array Capacity	Array Capacity	Set according to the actual array capacity.
North	Link Protection	Enable the funciton, if northbound communication is interrupted,

Protect	Function Switch	the device will execute the preset action plan.
	Protected Link Node Number	Select the communication link to be protected. Support: IEC 104 and Modbus-TCP.
	Control Strategy Selection	After communication disconnection, the protection strategy will be executed. Support: No action, Shutdown, Output preset values, QU mode, QP mode

8.2.9.2. Setting Inverter Parameters

NOTICE

- The required configuration parameters differ depending on the inverter model. Refer to the actual web interface for specific settings.
- Supports selecting multiple inverters and setting the selected multiple inverters.
- Enter 0 or 1 to enable or disable a function. 0 indicates disable the function, and 1 indicates enable the function.
- After setting the safety regulation region, the inverter's grid parameters, protection parameters, characteristic parameters, and power adjustment parameters will be loaded with default device settings. If modifications are needed, configure parameters according to local regulations.

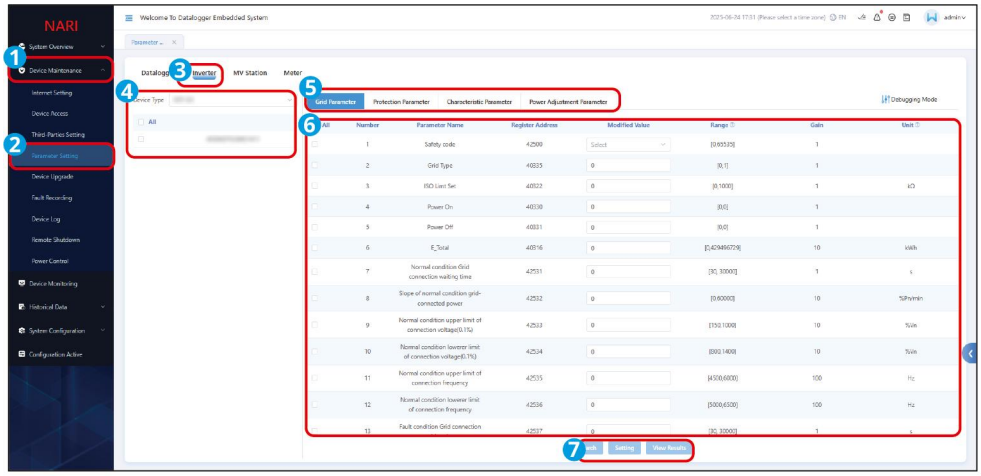
Step 1: Click “Device Maintenance” >” Parameter Setting” > “Inverter”.

Step 2: Select the device type and tick the serial number of the target inverter.

Step 3: Check the parameters to be viewed and click Query to display current values.

Step 4: To modify parameters, tick the target parameters, enter new values. Ensure the new values are within the allowable range.

Step 5: Click “Setting” to confirm changes, then click “View Results” to verify success.



EZU30CON0022

Setting Grid Parameter

No.	Parameters	Description
1	Safety Code	Set the safety country in compliance with local grid standards and application scenario of the inverter.
2	SPD Detection Switch	Enable or disable SPD detection function.
3	Power On (Allowing Grid-connection Self-test)	Issue power on instructions to allow grid connection self-test.
4	Shutdown (Not Allowing Grid-connection Self-test)	Issue power off instructions to stop grid connection self-test.
5	Output Method	Set whether the inverter's output includes the neutral (N) cable based on its application scenario. 0: three-phase four wire (3W/PE); 1: three phase five wire (3W/N/PE).
6	Shadow Scan Function Switch 1	PV strings may exist significant shading in PV systems where the inverter is applied. Enabling this feature, allows the inverter to perform a global MPPT scan at regular intervals to find the maximum power point.
7	Active Power Fixed Value Derating	Adjust the active power output of the inverter by fixed value.
8	Active Power Percentage Derating (0.1%)	Adjust the active power output of the inverter by percentage of rated power.
9	Reactive Power Compensation (PF)	Set the power factor of the inverter.
10	Reactive Power Compensation (Q/S)	Set the reactive power output from the inverter.
11	Reactive Power Compensation Fixed Value	Adjust the reactive power output of the inverter by fixed value.
12	Night Reactive Power Function Switch	Enable or disable night reactive power function. In some specific application scenarios, the power grid company requires that the inverter can perform reactive power compensation at night to ensure that the power factor of the local power grid meets

		requirements.
13	Night Reactive Power Parameters Taking Effect	Enable this function, the inverter outputs reactive power based on Fixed Value of Night Reactive Power Scheduling. Otherwise, the inverter executes the remote scheduling command.
14	Percentage of Night Reactive Power Scheduling (0.1%)	Schedule the reactive power by percentage during night reactive scheduling period.
15	Fixed Value of Night Reactive Power Scheduling	Schedule the reactive power by fixed value during night reactive scheduling period.

Setting Protection Parameters

No.	Parameters	Description
1	Over-voltage Stage n Trigger Value (0.1%)	Set the Level n overvoltage protection threshold.
2	Over-voltage Stage n Trip Time	Set the Level n overvoltage protection duration.
3	Under-voltage Stage n Trigger Value (0.1%)	Set the Level n undervoltage protection threshold.
4	Under-voltage Stage n Trip Time	Set the Level n undervoltage protection duration.
5	10min Over-voltage Trigger Value (0.1%)	Set the 10-min overvoltage protection threshold.
6	10min Overvoltage Trip Time	Set the 10-min overvoltage protection duration.
7	Over-Frequency Stage n Trigger Value	Set the Level n overfrequency protection threshold.
8	Over-Frequency Stage n Trip Time	Set the Level n overvfrequency protection duration.
9	Under-Frequency Stage n Trigger Value	Set the Level n underfrequency protection threshold.
10	Under-Frequency	Set the Level n underfrequency protection duration.

	Stage n Trip Time	
11	Start-up On-grid Voltage Upper Limit	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is higher than the Start-up Grid Connection Voltage Upper Limit.
12	Start-up On-grid Voltage Lower Limit	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is lower than the Start-up Grid Connection Voltage Lower Limit.
13	Start-up Grid Connection Frequency Upper Limit	The inverter cannot connect to the grid if it is powered on for the first connection and the grid frequency is higher than the Start-up Grid Connection Frequency Upper Limit.
14	Start-up Grid Connection Frequency Lower Limit	The inverter cannot connect to the grid if it is powered on for the first connection and the grid frequency is lower than the Start-up Grid Connection Frequency Lower Limit.
15	Start-up Grid Connection Waiting Time	The waiting time for connecting the inverter to the grid when the inverter is powered on for the first connection.
16	Start-up Grid Connection Power Loading Rate (0.1%Pn/min)	Set the percentage of incremental output power per minute when the inverter is powered on for the first connection.
17	Reconnection Voltage Upper Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid voltage is higher than the set value of the Reconnection Voltage Upper Limit.
18	Reconnection Voltage Lower Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid voltage is lower than the set value of the Reconnection Voltage Lower Limit.
19	Reconnection Frequency Upper Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid frequency is higher than the set value of the Reconnection Frequency Upper Limit.
20	Reconnection Frequency Lower Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid frequency is lower than the set value of the Reconnection Frequency Lower Limit.
21	Reconnection Waiting Time	Set the waiting time for the inverter to restart after a grid failure is restored.

22	Reconnection Power Loading Rate (0.1%Pn/min)	Set the percentage of incremental output power per minute when the inverter is not powered on for the first connection. For example, setting Reconnection Power Loading Rate to 10 means the reconnection slope is 10%Prated/min.
23	LVRT Enable	Low voltage ride-through (LVRT) refers to the situation, when the grid experiences a short-term low voltage abnormality, the inverter cannot immediately disconnect from the grid and has to work for a period of time. Enable this function, the inverter's LVRT is being activated.
24	LVRT Depth n	The ratio of the ride through voltage to the rated voltage at a feature point during LVRT.
25	Hold Time n	The ride through time at a feature point during LVRT.
26	Judgment Threshold of Entering LVRT	Set the threshold for triggering LVRT. The threshold settings should meet the local grid standard.
27	Judgment Threshold of Exiting LVRT	Set the threshold for exiting LVRT. The threshold settings should meet the local grid standard.
28	LVRT Positive Sequence Reactive Power K Value	During LVRT, the inverter needs to generate positive sequence reactive power to support the grid. This parameter is used to set the positive-sequence reactive power generated by the inverter.
29	LVRT Zero Current Mode Enable	The standards of some countries/regions require that the output current during LVRT should be limited. Enable this function, the output current is less than 10% of the rated current during LVRT.
30	Threshold of Entering Voltage	After enabling LVRT Zero Current Mode Enable, the zero current mode starts if the power grid voltage is less than Threshold of Entering Voltage during LVRT.
31	HVRT Enable	High voltage ride-through (HVRT) refers to the situation, when the grid experiences a short-term high voltage abnormality, the inverter cannot immediately disconnect from the grid and has to work for a period of time. Enable this function, the inverter's HVRT is being activated.
32	HVRT Depth n	The ratio of the ride through voltage to the rated voltage at a feature point during HVRT.
33	Hold Time n	The ride through time at a feature point during HVRT.
34	Judgment Threshold of Entering HVRT	Set the threshold for triggering HVRT. The threshold settings should meet the local grid standard.
35	Judgment Threshold of Exiting	Set the threshold for exiting HVRT. The threshold settings should

	HVRT	meet the local grid standard.
36	HVRT Positive Sequence Reactive Power K Value	During HVRT, the inverter needs to generate positive sequence reactive power to support the grid. This parameter is used to set the positive-sequence reactive power generated by the inverter.
37	HVRT Zero Current Mode Enable	The standards of some countries/regions require that the output current during HVRT should be limited. Enable this function to set the output current less than 10% of the rated current during HVRT.
38	Threshold of Entering Voltage	After enabling HVRT Zero Current Mode Enable, the zero current mode starts if the power grid voltage is higher than Threshold of Entering Voltage during HVRT.
39	Current Distribution Mode	Set the sharing mode of reactive current and active current. 0: reactive power priority; 1: active power priority; 2: constant current mode.
40	Active Power Recovery Mode after Ride-Through	Active current recovery mode during ride-through recovery, supported mode: slope recovery, first-order LPF recovery, and no requirement. 0: disable; 1: slope response; 2: time constant; 3: respond time.
41	Active Power Recovery Rate After Riding Through	The rate at which the active current recovers during the ride through recovery process.
42	Resume 1st-order LPF after Crossing	The active current recovers at the characteristic of first order LPF after the ride through recovery.
43	Reactive power recovery mode after ride-through	Reactive current recovery mode during ride-through recovery, supported mode: slope recovery, first-order LPF recovery, and no requirement. 0: disable; 1: slope response; 2: time constant; 3: respond time.
44	Reactive Power Recovery Rate After Riding Through	The reactive current recovers at the slope after the ride through recovery.
45	Reactive power recovery at the end of ride through (First-order low-pass filter)	The reactive current recovers at the characteristic of first order LPF after the ride through recovery.
46	Frequency Riding Through Enable	After enabling Frequency Riding Through Enable, the inverter continues to generate power during required time even the grid frequency is abnormal.

47	n-order Under Frequency Riding Through Point_UFn	Set the level n underfrequency protection threshold value.
48	n-order Under Frequency Riding Through Time_UTn	Set the level n underfrequency protection tripping time.
49	n-order Over Frequency Riding Through Point_OFn	Set the level n overfrequency protection threshold value.
50	n-order Over Frequency Riding Through Time_OTn	Set the level n overfrequency protection tripping time.

Setting Characteristic Parameter

No.	Parameters	Description
1	EU Remote Shutdown Enable	Enable or disable remote shutdown function.
2	Anti-PID Function Switch	Enable or disable anti-PID.
3	PID Recovery Function Switch	Enable or disable PID recovery.
4	ISO Limit Set	To protect the equipment, the inverter performs an insulation impedance check on the input side during self-check at startup. If the measured value is lower than the set value, the inverter will not connect to the grid.
5	NPE Overvoltage Detection Switch	Enable or disable N-PE overvoltage detection.
6	N-PE Error Threshold	Set the N-PE overvoltage alarm threshold.
7	Active Power Scheduling Response Method	Set the active power scheduling response method. Supported method: gradient control or PT-1 behavior. 0: disable; 1: gradient control; 2: PT-1 behavior tau; 3: PT-1 behavior respond time.
8	Gradient of Active Power	Set the active power change slope.
9	Active Power Scheduling LPF Time	Set the low pass filtering time for active power scheduling.

10	Reactive Scheduling Response Method	Set the reactive power scheduling response method. Supported method: gradient control or PT-1 behavior. 0: disable; 1: gradient control; 2: PT-1 behavior tau; 3: PT-1 behavior respond time.
11	Gradient of Reactive Power	Set the low pass filtering time for reactive power scheduling.
12	Reactive Power Scheduling LPF Time	Set the low pass filtering time for reactive power scheduling.

Setting Power Adjustment Parameter

No.	Parameters	Description
1	Over-Frequency Start Point	The active power of the device will be derated according to a certain slope when the grid frequency exceeds overfrequency derating limit.
2	Power Response To Overfrequency Gradient	In Slope mode, the slope at which the active power output of the inverter is derated when the grid frequency exceeds the overfrequency point.
3	P(F) Curve Enable	Enable or disable PU curve.
4	Underfrequency Threshold	Standards in certain countries/regions require that the active power output of the inverter be increased when the grid frequency falls below the underfrequency point.
5	Recovery Power Slope	Set the power recovery slope for exiting overfrequency derating.
6	Frequency Hysteresis Point	Frequency correspondence point for over-frequency hysteresis function.
7	Tentional Delay Ta	Silent waiting time for over-frequency hysteresis function.
8	Overfrequency Endpoint	Set the exit frequency for over-frequency derating.
9	Reference Power （Slope）	Power reference value for the active power deration slope when grid frequency exceeds the overfrequency point in Slope mode.
10	Frequency Hysteresis Point	Frequency correspondence point for under-frequency hysteresis function.

11	Recovery Power Slope	Set the power recovery slope for exiting under-frequency derating.
12	Underfrequency Endpoint	Set the exit frequency for under-frequency power increase.
13	Reference Power （Slope）	Power reference value for the active power deration slope when grid frequency falls below the underfrequency point in Slope mode.
14	Under-Frequency Power Slope(Slope)	Slope of active power deration when grid frequency falls below the underfrequency point in Slope mode.
15	Tentional Delay Ta	Silent waiting time for under-frequency hysteresis function.
16	PU Curve Enable	Enable or disable PU curve.
17	Vn Voltage Value (0.1%)	The percentage of actual voltage to the rated voltage at Vn point.
18	Vn Active Power Value (0.1%)	The percentage of the output active power to the apparent power at Vn point.
19	PU Curve Output Response Mode	The output response mode of the PU curve. Supported mode: gradient control or PT-1 behavior.
20	PU Curve Output Power Changing Rate	The power change slope when the PU Curve Output Response Mode is gradient control.
21	PU Curve Response Time Parameter	The response time when the PU Curve Output Response Mode is PT-1 behavior.
22	QU Curve Enable	Enable or disable PU Curve.
23	Vn Voltage Value (0.1%)	The percentage of actual voltage to the rated voltage at Vn point.
24	Vn Active Power Value (0.1%)	The percentage of the reactive output power to the apparent power at Vn point.
25	QU Curve Response Time Parameter	The response time when the QU curve output response Mode is PT-1 behavior.
26	Enter Curve Power (0.1%)	Enter the power percentage for the QU curve.
27	Exit Curve Power (0.1%)	Exit the power percentage for the QU curve.
28	osφ(P) Curve Enable	Enable or disable cosφ(P) curve.
29	Point n Power (0.1%)	The percentage of the inverter output active power to the rated power at point n.

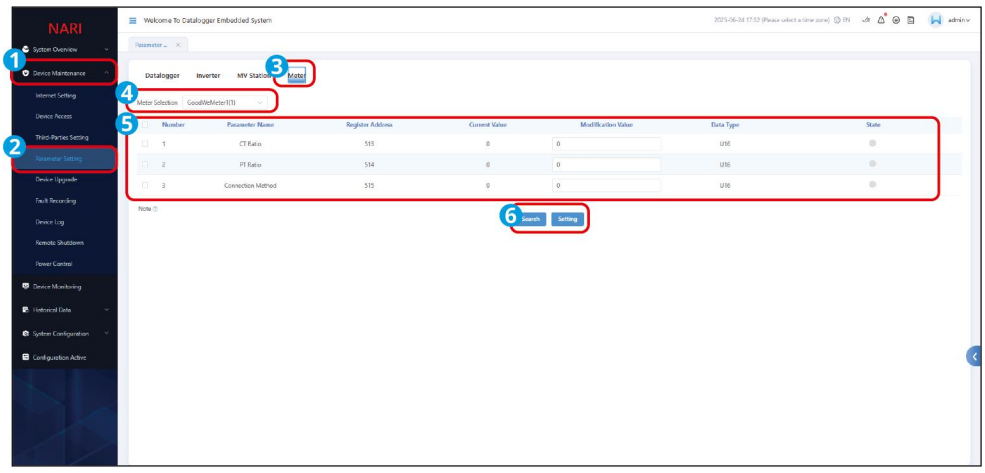
30	point n cosφ Value (pf,0.001)	The power factor at point n.
31	cosφ(P) Curve Response Time	The response time when the cosφ(P) curve response Mode is PT-1 behavior.
32	Enter Curve Voltage (0.1%)	When the grid voltage is between Enter Curve Voltage and Exit Curve Voltage, the voltage meets Cosφ curve requirements.
33	Exit Curve Voltage (0.1%)	When the grid voltage is between Enter Curve Voltage and Exit Curve Voltage, the voltage meets Cosφ curve requirements.
34	QP Curve Enable	Enable or disable QP purve.
35	QP Curve Pn	The percentage of the output active power to the rated power at Pn point.
36	QP Curve Qn	The percentage of the output active power to the rated power at Pn point.
37	QP Curve Output Response Time	The response time when the QP curve output response Mode is PT-1 behavior.

8.2.9.3. Settings the Smart Meter

Step 1: Click “Device Maintenance” >” Parameter Setting” > “Meter”.

Step 2: Select the target smart meter.

Step 3: Tick the parameters to be viewed and click Query to check current values. Enter the value and click Setting if required.

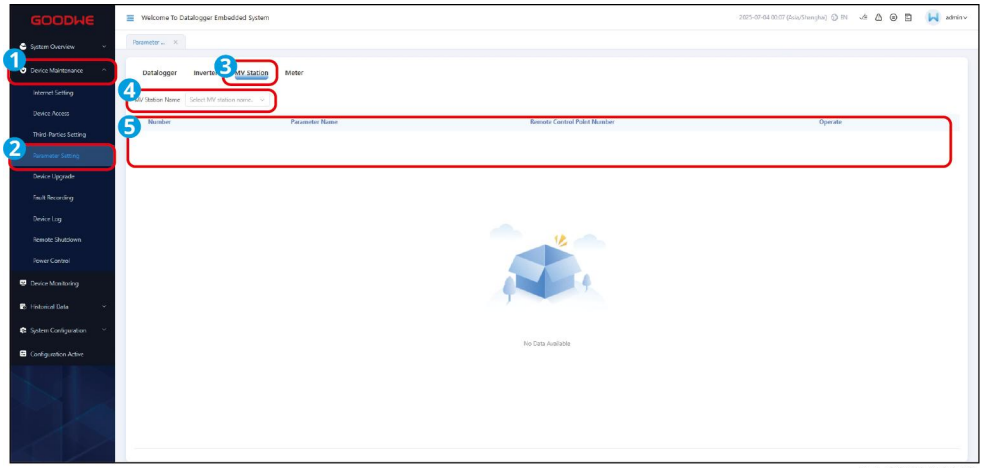


EZU30CON0019

No.	Parameters	Description
1	CT Ratio	Set the ratio of the primary current to the secondary current of the CT.
2	PT Ratio	Set the ratio of the primary voltage to the secondary voltage of the PT.

3	Connection Method	Set the connection method of the meter.

8.2.9.4. Setting MV Station Parameters



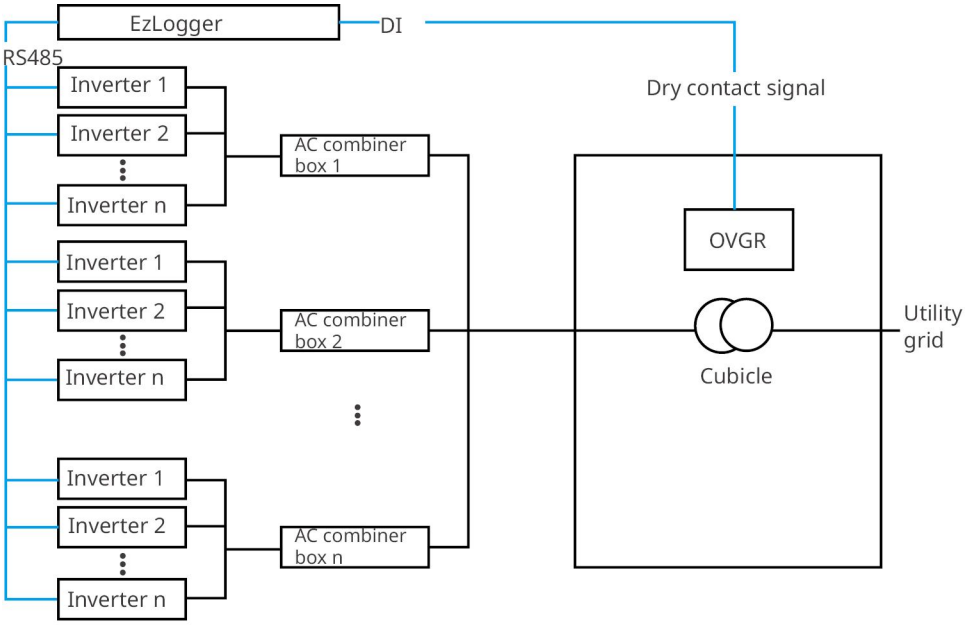
EZU30CON0020

8.2.10. Setting Remote Shutdown Parameters

8.2.10.1. Setting OVGR&RPR Parameters

8.2.10.1.1. Setting OVGR Parameters

The standards of Japan and some other regions require that the OVGR can connect to any DI port of the EzLogger to shut down the inverter over OVGR signals.



Step 1: Click “Device Maintenance” > “Remote Shutdown” > “OVGR&RPR”.

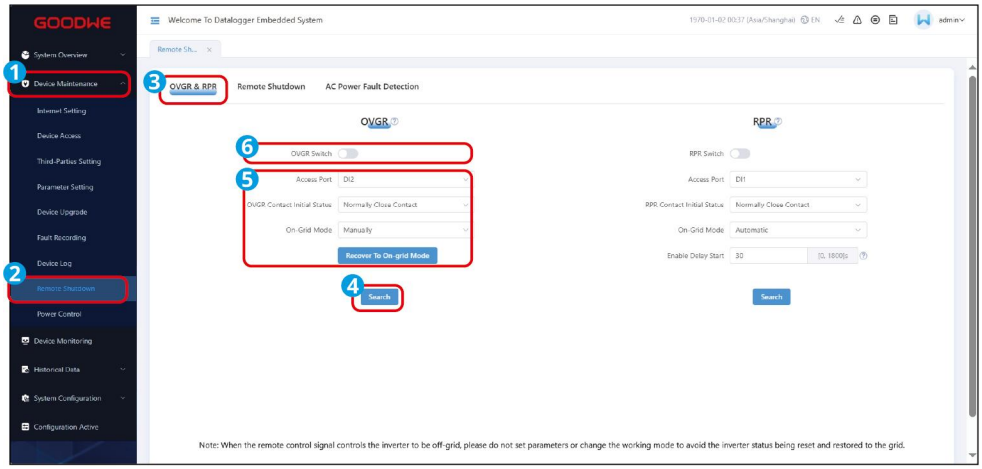
Step 2: Click “Search” to check the OVGR status.

Step 3: Click "Access Port" and select the port connected to the EzLogger from the dropdown menu based on the actual wiring.

Step 4: Select the "OVGR Contact Initial Status" and "On-Grid Mode" according to utility and electrical requirements. Default: OVGR Contact Initial Status = Normally Closed Contact; On-Grid Mode = Manually.

Step 5: Enable the "OVGR Switch".

Step 6: Click "Search" again to check the current OVGR status and confirm the changes have taken effect.



EZU30CON0081

No.	Parameters	Description
1	OVGR Switch	Enable or disable OVGR function.
2	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: DI1, DI2, DI3, DI4.
3	OVGR Contact Initial Status	Set the initial status of OVGR. Supported: Normally Close Contact or Normally Open Contact.
4	On-grid mode	Reconnect to the utility grid manually or automatically when the inverter is restarting due to remote shutdown.
5	Enable Delay Start	Set Enable Delay Start when the On-grid Mode is Automatic. The automatic on-grid connection will be delayed after the OVGR restores to the initial contact status.
6	Recover to On-grid Mode	● If the On-grid Mode is Manual, click Recover to On-grid Mode to reconnect to the utility grid. ● If the On-grid Mode is Automatic, the inverter will reconnect to the utility grid automatically after the OVGR restores to the initial contact status. ● Before clicking Recover to On-grid Mode, ensure that the fault has been resolved. Otherwise, the reconnection will fail.

8.2.10.1.2. Setting RPR Parameters

The standards of Japan and some other regions require that the RPR can connect to any DI port of the EzLogger to shut down the inverter over OVGR signals.

Step 1: Click “Device Maintenance” > “Remote Shutdown” > “OVGR&RPR”.

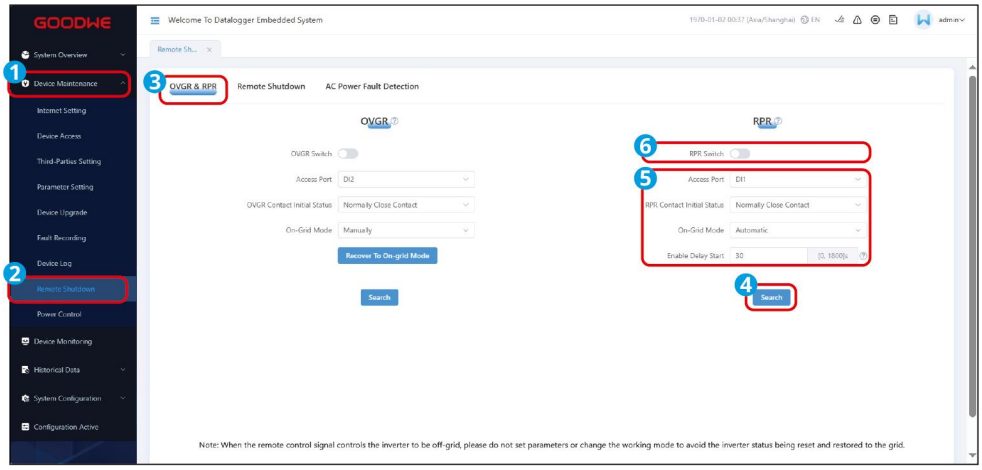
Step 2: Click “Search” to check the RPR status.

Step 3: Click "Access Port" and select the port connected to the EzLogger from the dropdown menu based on the actual wiring.

Step 4: Select the "RPR Contact Initial Status" and "On-Grid Mode" according to utility and electrical requirements. Default: RPR Contact Initial Status = Normally Closed Contact; On-Grid Mode = Manually.

Step 5: Enable the "RPR Switch".

Step 6: Click "Search" again to check the current RPR status and confirm the changes have taken effect.



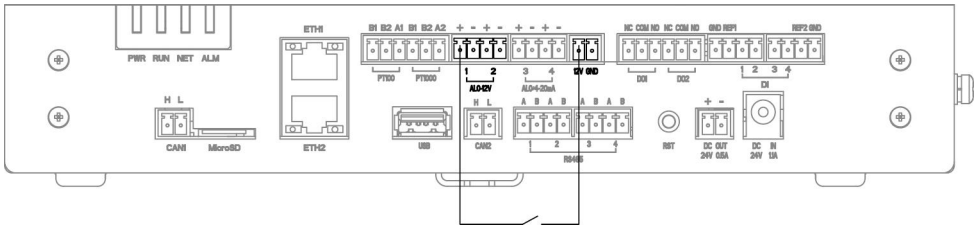
EZU30CON0009

No.	Parameters	Description
1	RPR Switch	Enable or disable RPR function.
2	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: DI1, DI2, DI3, DI4.
3	PRR Contact Initial Status	Set the initial status of RPR. Supported: Normally Close Contact or Normally Open Contact.
4	On-grid mode	Reconnect to the utility grid manually or automatically when the inverter is restarting due to remote shutdown.
5	Enable Delay Start	Set Enable Delay Start when the On-grid Mode is Automatic. The automatic on-grid connection will be delayed after the RPR restores to the initial contact status. Set the parameter as required by the grid company.

6	Recover to On-grid Mode	• If the On-grid Mode is Manual, click Recover to On-grid Mode to reconnect to the utility grid. • If the On-grid Mode is Automatic, the inverter will reconnect to the utility grid automatically after the RPR restores to the initial contact status. • Before clicking Recover to On-grid Mode, ensure that the fault has been resolved. Otherwise, the reconnection will fail.

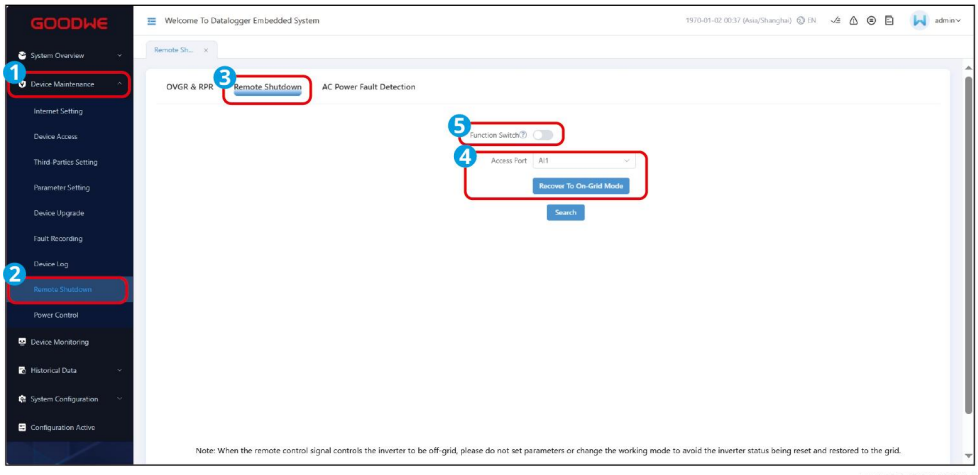
8.2.10.2. Setting Remote Shutdown Parameters

The standards of some countries and regions require that a remote shutdown device should be connected to the AI1+ or AI2+ port and 12V Output port of the EzLogger to realize remote shutdown function.



Step 1: Click “Device Maintenance” > “Remote Shutdown” > “Remote Shutdown”.

Step 2: Set the remote shutdown device port and status, click “Function Switch” to enable the function.



EZU30CON0044

No.	Parameters	Description
1	Function Switch	Enable or disable remote shutdown function.
2	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: AI1 or AI2.

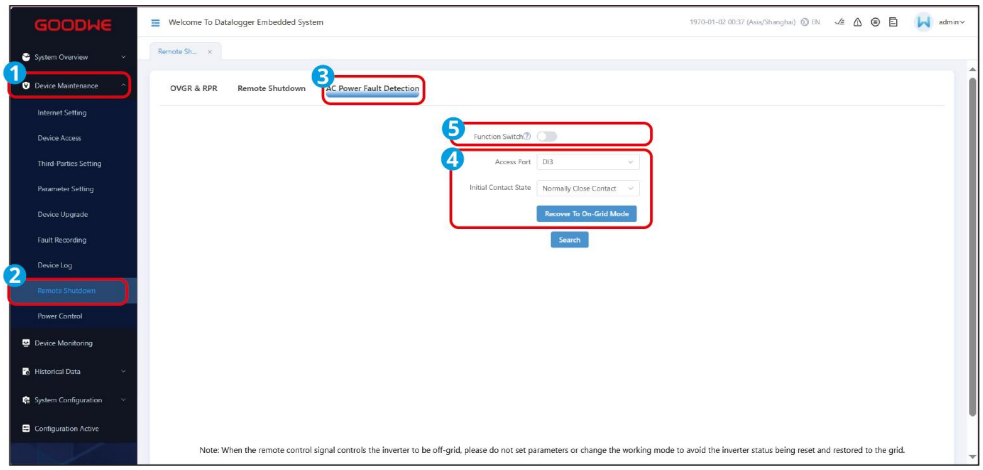
3	Recover to On-grid Mode	If the the inverter is power off, click Recover to On Grid Mode to restart and reconnect the inverter to the utility grid .

8.2.10.3. Setting AC Power Fault Parameters

The standards of Japan and other regions require that when there are AC power faults, it is not allowed to connect the inverter to the utility grid. Connect the external AC power fault detection device to any DI port of the controller for AC power fault detection.

Step 1: Click “Device Maintenance” > “Remote Shutdown” > “AC Power Fault Detection”.

Step 2: Set the AC power fault detection device port and status, click “Function Switch” to enable the function.



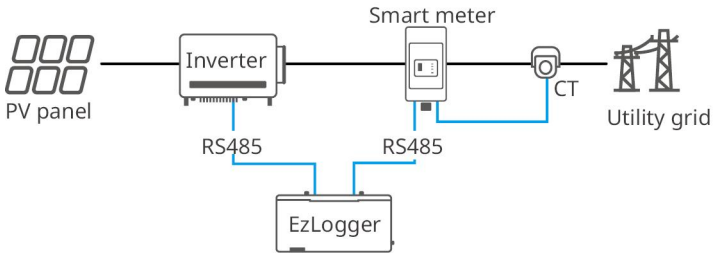
EZU30CON0015

No.	Parameters	Description
1	Function Switch	Enable or disable AC power fault detection.
2	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: DI1, DI2, DI3, DI4.
3	Initial Contact Status	Select the initial contact status of the port. Supported: Normally Close Contact or Normally Open Contact.
4	Recover to On-grid Mode	If the the inverter is power off, click Recover to On Grid Mode to restart and reconnect the inverter to the utility grid.

8.2.11. Setting Power Control Parameters

8.2.11.1. Setting Power Limit Parameters

If the power generated by the PV system cannot be consumed by loads, the remaining power will be fed into the utility grid. Control the power fed into the grid by setting the Power Limit parameters.



Step 1: Click “Device Maintenance” > “Power Control” > “Power Limit”.

Step 2: In the "Grid-Connected System Capacity" field, enter the total rated power of all inverters (sum of individual inverter ratings).

Step 3: Enter the maximum power allowed to feed into the grid in “Installed Capacity of Grid-Tie Inverter". For full self-consumption scenarios or when using RPR, set this value to 0.

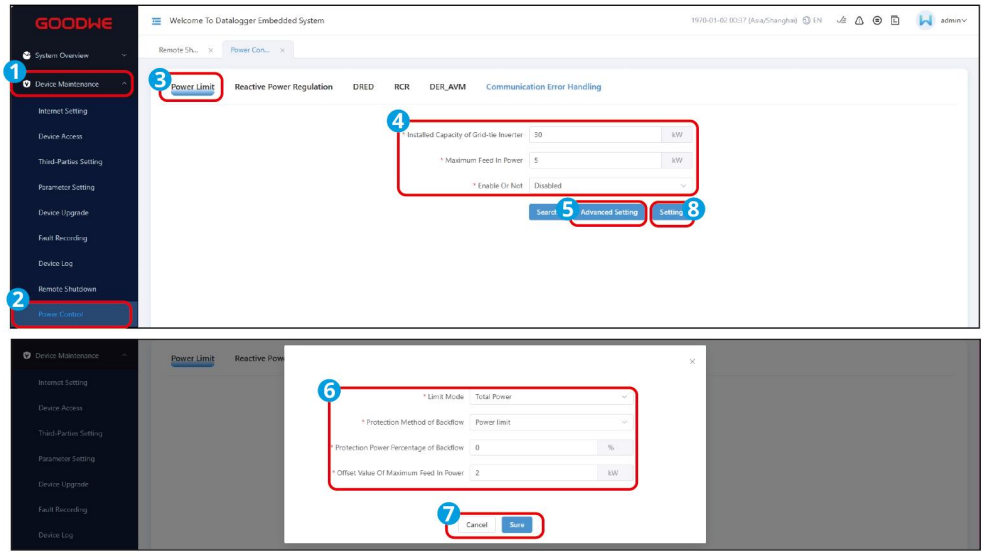
Step 4: Click "Enable Or Not" to enable the power limit function.

Step 5: Click "Advanced Settings".

Step 6: In the Advanced Setting interface, click "Limit Mode" and select the appropriate method from the dropdown menu to control the inverter’s output power based on the actual system.

Step 7: Click "Protection Method of Backflow" and select the inverter’s response to power limit from the dropdown options. If the RPR fails to trip, the inverter will still trigger protection within a specified time. After selecting "Power Limit", set the reverse power protection threshold (as a percentage of rated power).

Step 8: For users with frequently fluctuating or large-range load variations, set an offset value to improve anti-reverse power accuracy. In the "Max Grid Feed-in Power Offset" field, enter the desired offset value. Example: Setting -0.2 kW will cause the system to actively draw 0.2 kW from the grid to prevent reverse power flow.



EZU30CON0042

No.	Parameters	Description
1	Installed Capacity of Grid-tie Inverter	Set the total capacity of all inverters in the system.
2	Maximum Feed In Power	Set the maximum power that is allowed feed into the utility grid based on local grid standards and requirements.
3	Enable or Not	Enable or disable Power Limit.
4	Limit Mode	Select the output power control mode based on actual situation. • Total Power: controls the total power at the grid-connection point to limit the power fed to the power grid. • Each Phase Power: controls the power of each phase at the grid-connection point to limit the power fed to the power grid.
5	Protection Method of Backflow	The power feed into the utility grid is allowed to exceed the limit value within a specified duration(5s by default). The following measures can be taken when output power exceeds the limit value more than the maximum allowed time: • Power Percentage: the equipment continues to work at the percentage of the rated power. • Device Offline: stop the equipment.
6	Protection Power Percentage of Backflow	The equipment works at the percentage of the rated power.
7	Offset Value Of Maximum Feed In Power	• Set the adjustable range of the maximum power to be exported to the utility grid. • Maximum power exported to the utility grid = maximum

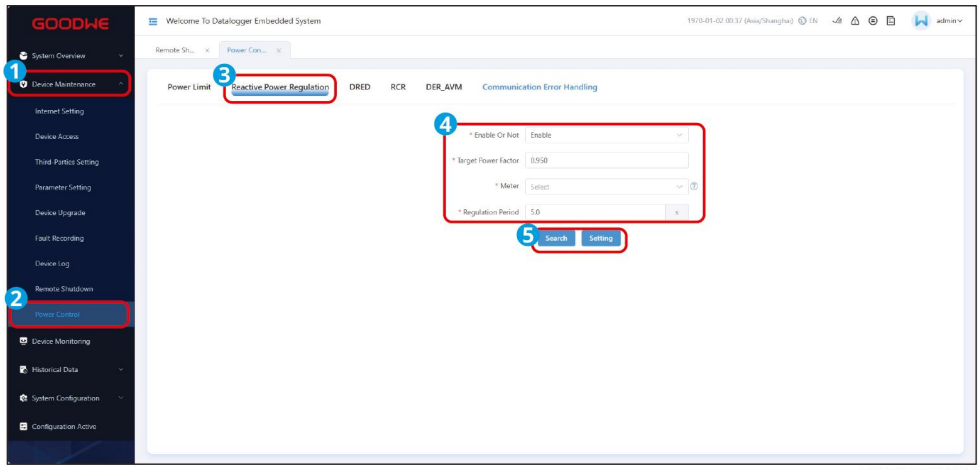
		feed in power + offset value of maximum feed in power.
8	Meter Communication Abnormal Processing	Enable Meter Communication Abnormal Processing, protective measures will be taken when the communication between the smart meter and the EzLogger is abnormal.
9	Meter Abnormal Processing Method	The following measures will be taken when the smart meter communication is abnormal. • Power Percentage: the equipment continues to work at the percentage of the rated power. • Device Offline: stop the equipment.
10	Meter Processing Power Percentage	The equipment works at the percentage of the rated power.

8.2.11.2. Setting the Reactive Power Regulation Parameters

- When the PV plant needs to maximize benefits by adjusting the power factor, it can collect grid connection point power data from the smart meter, and regulate the reactive power output of the PV system according to the set values, thus optimizing the gateway power factor.
- Only applicable to scenarios in which a single smart meter is used in the PV system.

Step 1: Click “Device Maintenance” > “Power Control” > “Reactive Power Regulation”.

Step 2: Set the parameters based on actual needs.

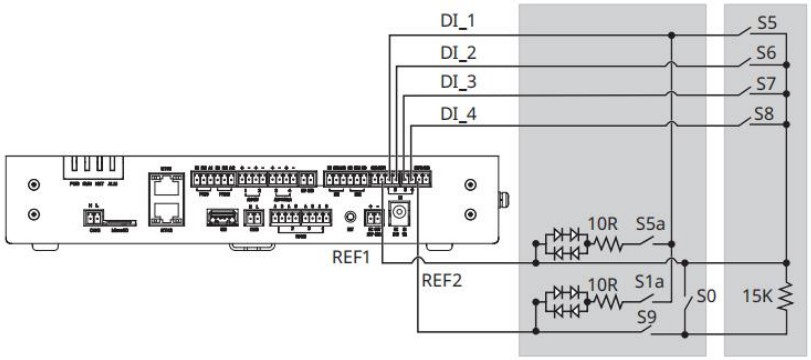


EZU30CON0041

No.	Parameters	Description
1	Enable or Not	Enable or disable Reactive Power Regulation.
2	Target Power Factor	Set power factor based on actual needs.
3	Meter	Select the meter on the grid side. The system acquires on-grid power data according to selected meter. Currently supported:

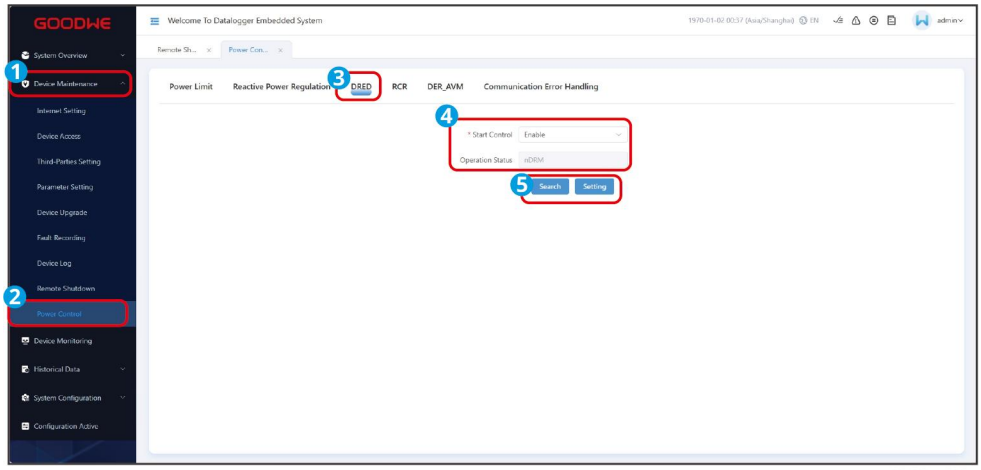
		GoodWe smart meter and Acrel smart meter(DTSD1352).
4	Regulation Period	Set the period of power factor value detection. Usually set as 5 seconds.

8.2.11.3. Setting DRED Parameters

- The standards of Australia and other regions require that the inverter must pass DRM (DEMAND RESPONSE MODES) certification.
- To realize DRM, connect DRED (Demand Response Enabling Device) to DI1/DI2/DI3/DI4/REFI/REF2 port of the EzLogger.
- 

Step 1: Click “Device Maintenance” > “Power Control” > “DRED”.

Step 2: Set the parameters based on actual needs.



EZU30CON0005

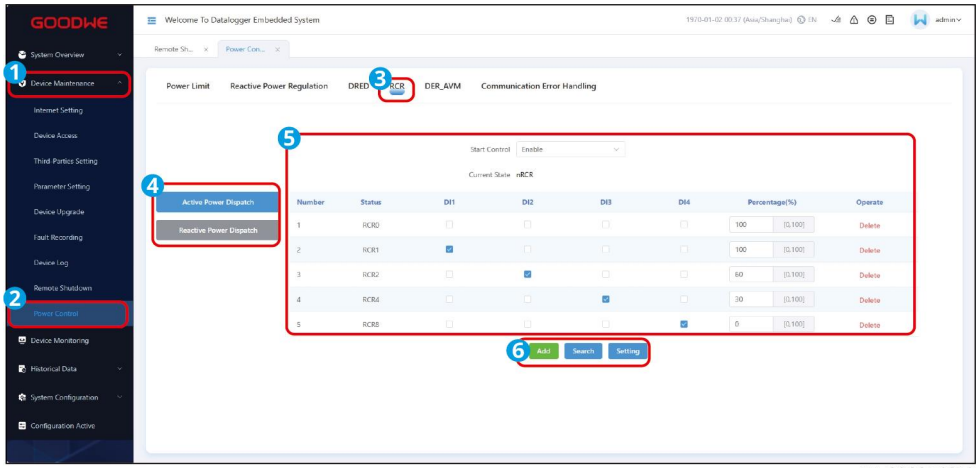
No.	Parameters	Description
1	Start Control	Enable or disable DRED.
2	Operation Status	• The connection status of the device, including: nDRM, DRM5, DRM6, DRM7, DRM8. • nDRM: the device works at full power.

8.2.11.4. Setting RCR Parameters

- The standards of German and other regions require that the inverter must provide signal controlling port for RCR (Ripple Control Receiver), which can be used for grid scheduling.
- To realize RCR, connect RCR to DI1/DI2/DI3/DI4/REF1 port of the EzLogger for active power derating, or connect RCR to DI1/DI2/DI3/DI4/REF2 port of the EzLogger for reactive power scheduling.

Step 1: Click “Device Maintenance” > “Power Control” > “RCR”.

Step 2: Set the parameters based on actual needs.



EZU30CON0010

No.	Parameters	Description
1	Start Control	Enable or disable RCR.
2	Operation Status	• The operation status of the device. For instance, RCR1(100) means the current operation state is RCR1, and feed in power accounts for 100% of the rated power. • nRCR: operation status does not take effect.
3	Active Power Dispatch	• Select one or more DI ports according to the grid company’s requirements and RCR fixture type, and configure the corresponding percentage. Percentage refers to the ratio of the system’s output power to its rated power. • Support configuration of 16 percentage levels. Configure based on the actual requirements of the grid company. • Do not repeat setting of state combinations of DI1–DI4. Otherwise, the function will not operate properly. • If the actual DI port wiring connection does not match the web configuration, the operation state will not take effect.
4	Reactive Power Dispatch	• Select one or more DI ports according to the grid company’s requirements and RCR fixture type, and set the

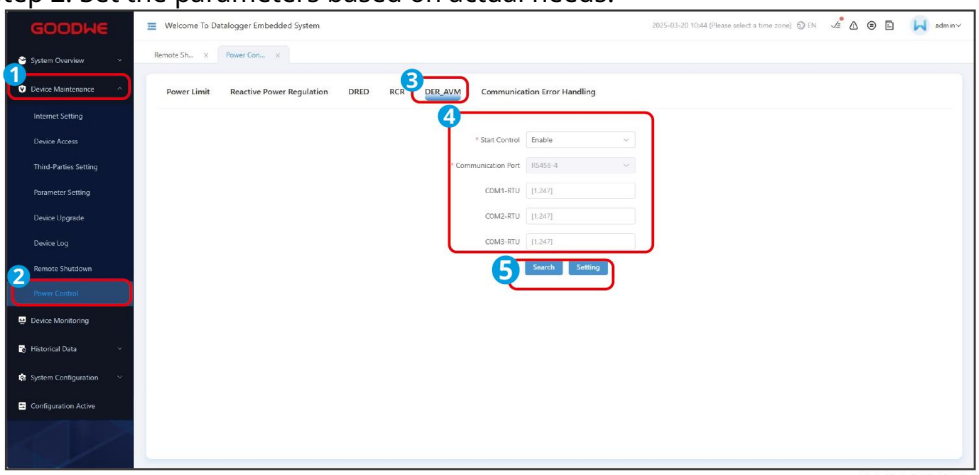
		corresponding PF values. • Support configuration of 16 power factor levels. Configure based on the actual requirements of the grid company.Support configuration of 16 percentage levels. Configure based on the actual requirements of the grid company. • The PF value must be within the ranges [-100, -80] or [80, 100]. Values in [-100, -80] correspond to a lagging power factor of [-0.99, -0.8], and values in [80, 100] correspond to a leading power factor of [0.8, 1]. • Do not repeat setting of state combinations of DI1–DI4. Otherwise, the function will not operate properly. • If the actual DI port wiring connection does not match the web configuration, the operation state will not take effect.

8.2.11.5. Setting DER_AVM Parameters

- The standards of Korea and other regions require that the inverters must provide a signal controlling port for DER_AVM, which can be used for grid scheduling.
- To realize DER_AVM, connect a third party KDN device to RS485-4 of the EzLogger.

Step 1: Click “Device Maintenance” > “Power Control” > “DER_AVM”.

Step 2: Set the parameters based on actual needs.



EZU30CON0004

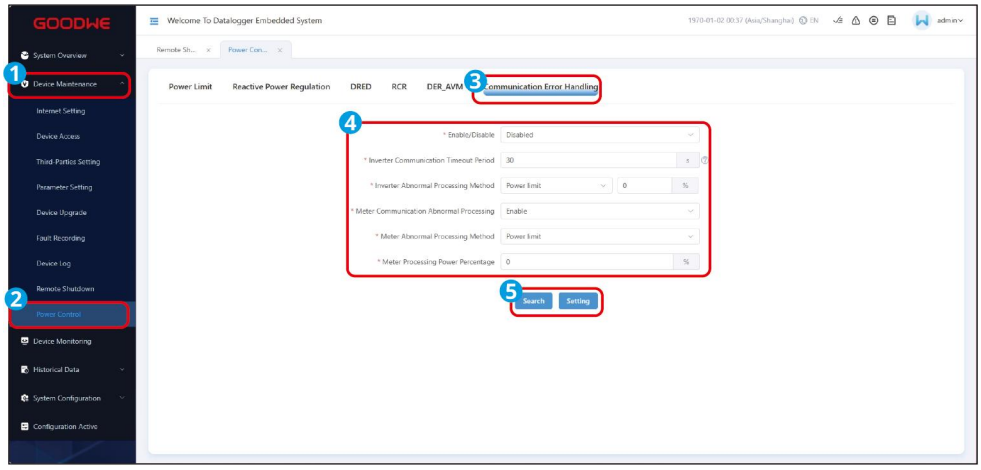
No.	Parameters	Description
1	Start Control	Enable or disable DER_AVM.
2	Communication Port	Port for connecting the KDN device and the EzLogger. The default port is RS485-4.

3	COM1-RTU	Set the RTU communication address of the RS485 1/2/3 port. The KDN device recognizes the port address and sends scheduling command to the inverter connected via the corresponding port.
4	COM2-RTU	
5	COM3-RTU	

8.2.11.6. Setting Communication Error Handling Parameters

Step 1: Click “Device Maintenance” > “Power Control” > “Communication Error Handling”.

Step 2: Set the parameters based on actual needs.



EZU30CON0039

No.	Parameters	Description
1	Enable/Disable	Enable Communication Error Handling, protective measures will be taken when the communication between the inverter and the EzLogger or the smart meter is abnormal.
2	Inverter Communication Timeout Period	The protective measures will be taken when the communication exception time exceeds the set time.
3	Inverter Abnormal Process Method	The following measures can be taken when the communication between the inverter and the EzLogger is abnormal: ● Power Percentage: the equipment continues to work at the percentage of the rated power. ● Device Offline: stop the equipment.
4	Meter Communication Abnormal Processing	Enable Meter Communication Abnormal Processing, protective measures will be taken when the communication between the smart meter and the EzLogger is abnormal.
5	Meter Abnormal Processing Method	The following measures will be taken when the smart meter communication is abnormal.

		• Power Percentage: the equipment continues to work at the percentage of the rated power. • Device Offline: stop the equipment.
6	Meter Processing Power Percentage	The equipment works at the percentage of the rated power.

8.3. Commissioning through SolarGo App

8.3.1. Downloading and Installing the App

Make sure that the mobile phone meets the following requirements:

- Mobile phone operating system: Android 5.0 or later, iOS 13.0 or later.
- The mobile phone can access the Internet.
- The mobile phone supports WLAN or Bluetooth.

Method 1: Search SolarGo in Google Play (Android) or App Store (iOS) to download and install the app.

Method 2: Scan the QR code below to download and install the app.

8.3.2. Login to the App

NOTICE

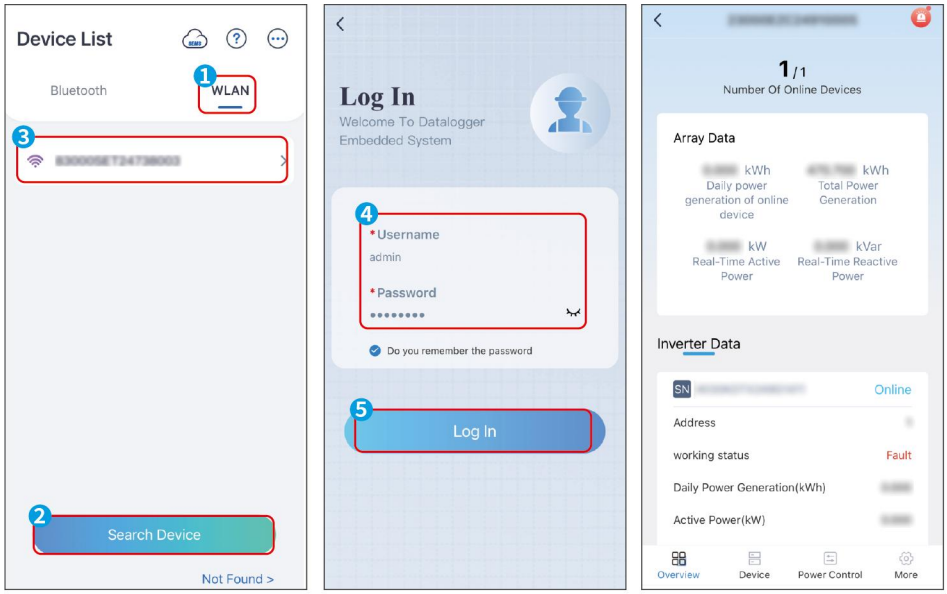
• Before connecting the EzLogger and the App, make sure:
  • Cellular WiFi is turned on,
  • The devices are powered on and communicate properly with the EzLogger.
  • The antenna of the EzLogger is connected properly and the signal of WiFi hotspot is stable.
  • SolarGo App version is V5.9.0 or above.

- To ensure account security, the same account can not be logged into the Web and SolarGo App at the same time.

Step 1: Open the WiFi settings on your phone and connect to the EzLogger's WiFi hotspot. Default WiFi hotspot name: Log-*** (*** represents the EzLogger's serial number). Default password: 12345678.

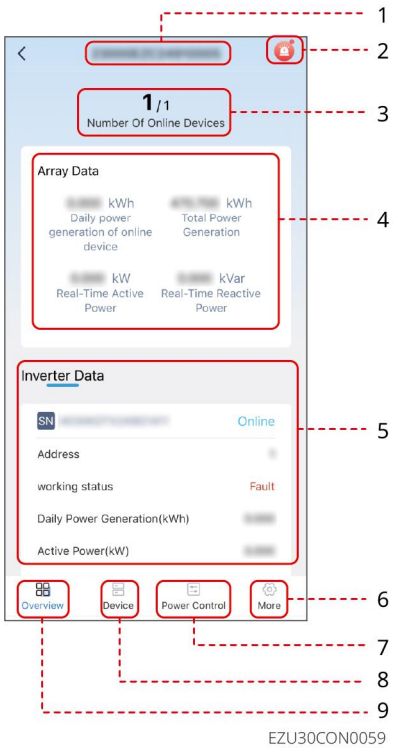
Step 2: Open the SolarGo App. Tap WLAN and search for devices, connect to the required device.

Step 3: Enter your username and password to log in to the App. Default username: admin. Default password: 123456.



EZU30CON0058

8.3.3. Introduction to the App



EZU30CON0059

No.	Description
1	Serial number of the connected EzLogger.
2	Alarm information. Both real time alarm and historical alarm can be checked.
3	Number of online devices.
4	Power generation data of the system.
5	Inverter related data, such as device SN, working status, generation data, etc.
6	More. Set network parameters, safety information, system time, etc.
7	Power Control. Set the power control function, like remote shutdown, DRED, RCR, etc.
8	Device. Set the system network, add devices, delete devices, configure devices, and so on.
9	Overview. Tap to view the system information, such as online devices, PV data, inverter data, etc.

8.3.4. Manage the Device

8.3.4.1. Add Devices via Automatic Search

NOTICE
Third party devices like smart meter cannot be found by automatic search, add the third party device via manually add.

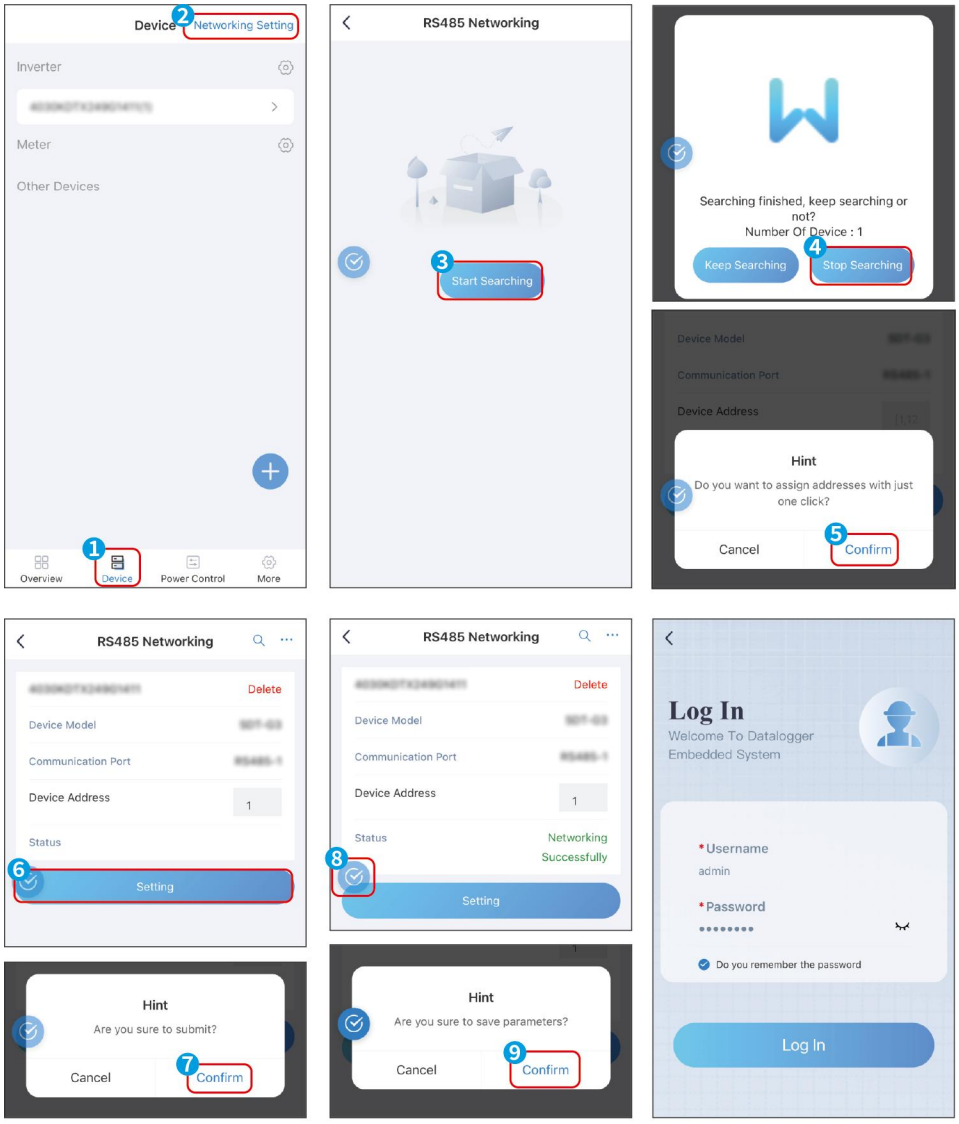
Step 1: Tap “Device” > “Networking Settings”.

Step 2: Tap “Start Searching”. Stop searching when the searched number of device matches actual number of device. Check the RS485 wiring if the searched number of device is not right.

Step 3: The App will prompt whether to assign an address with one click. Select Confirm or Cancel based on your actual needs. If you tap Cancel, then set the device terminal address manually. Ensure that device terminal addresses are unique.

Step 4: Check the networked device information and tap “Setting” > “Confirm” to submit the settings.

Step 5: Tap  , and “Confirm” to complete the networking setting. After configuration, the EzLogger will restart. Re-login as prompted.



EZU30CON0060

8.3.4.2. Add Devices via Manually Add

NOTICE
Before adding a device, confirm the device model, device SN, and the communication port that the device is connected to. Otherwise, the adding may fail.

Step 1: Tap “Devices” > .

Step 2: Set the parameters based on actual needs. Click “Setting” and complete adding.

EZU30CON0067

Add an inverter

No.	Parameters	Description
1	Device Name	Define the device name based on actual needs.
2	Device Type	Select the model of the connected inverter.
3	Communication Protocol	Set the parameter based on the communication protocol of the inverter. Supported: Modbus-RTU.
4	Communication Port	Select based on the actual port on the EzLogger which the inverter connected to.
5	Device Model Select	Select the actual connected inverter model. Connect inverters of different models to one port is supported. UT and HT(225~250kW) can be connected to one RS485 communication port at the same time. GT, HT(100~136kW), SMT(25~60kW), SMT(80kW), SMT-US, SDT-G3 and SDT-G2 can be connected to one RS485 communication port at the same time.
6	Terminal Address	• Set the parameter based on the actual power plant planning. Select Auto-Generate when there is no need to set the parameters based on the actual settings. • Make sure that different devices uses different address.

Add a smart meter

No.	Parameters	Description
1	Device Name	Define the device name based on actual needs.

2	Device Type	Select Smart Meter.
3	Communication Protocol	Set the parameter based on the communication protocol of the smart meter. Supported: Modbus-RTU.
4	Communication Port	Select the actual connected port on the EzLogger. Supported port: RS485-1, RS485-2, RS485-3, RS485-4.
5	Device Subtype	• This option is displayed when the communication protocol is ModbusRTU. Set this parameter based on the actual meter model. • Supported: Goodwe Meter (GM330), Schneider-IEM3255, Janitza-UMG604, PRISMA-310A Lite/ 310A*, MIKRO-DPM680, Mitsubishi-ME110SS, IRA 2.0-Bf, Acrel-DTSD1352-CT, and Others.
6	Meter Purpose	• Select based on the actual purpose. Supported: Grid Side Meter or Point Of Interconnection Meter. • Grid Side Meter: for power limiting, supports Goodwe Meter(GM330), UMG604PRO and Acrel-DTSD1352. • Point Of Interconnection Meter: for metering, supports Schneider-IEM3255. • When several smart meters are connected in the system for power limit, set all meters for power limit as grid side meters.
7	Terminal Address	• Device address. Set the parameter based on the actual power plant planning. Select Auto Generate when there is no need to set the parameters based on the actual settings. If no specific setting is required, it can be generated automatically. • Do not set the address of smart meters same as that of inverters.
8	Access Point Table	Select the point table based on actual situation.

Add other devices

No.	Parameters	Description
1	Device Name	Define the device name based on actual needs.
2	Device Type	Select Other Devices.
3	Communication Protocol	Set the parameter based on the communication protocol of the smart meter. Supported: Modbus-RTU.
4	Communication Port	Select the actual connected port on the EzLogger. Supported port: RS485-1, RS485-2, RS485-3, RS485-4.
5	Device Model Select	Set device type. Support: Weather Station, MV Station or Other.

6	MV Station Sub-Type	If the Device Subtype is MV Station, set the MV Station Sub-Type to General or Distributed.
7	Terminal Address	Device address. Set the parameter based on the actual power plant planning. Make sure that different devices uses different address.
8	Protocol Type	Set the protocol type based on the actual situation.
9	Access Point Table	Import the access point table of the connected device.
10	IEC104 Forwarding	Select the forwarding table based on actual situation.
11	Modbus TCP Forwarding	Select the forwarding table based on actual situation.

8.3.5. Setting Inverter Parameters

NOTICE

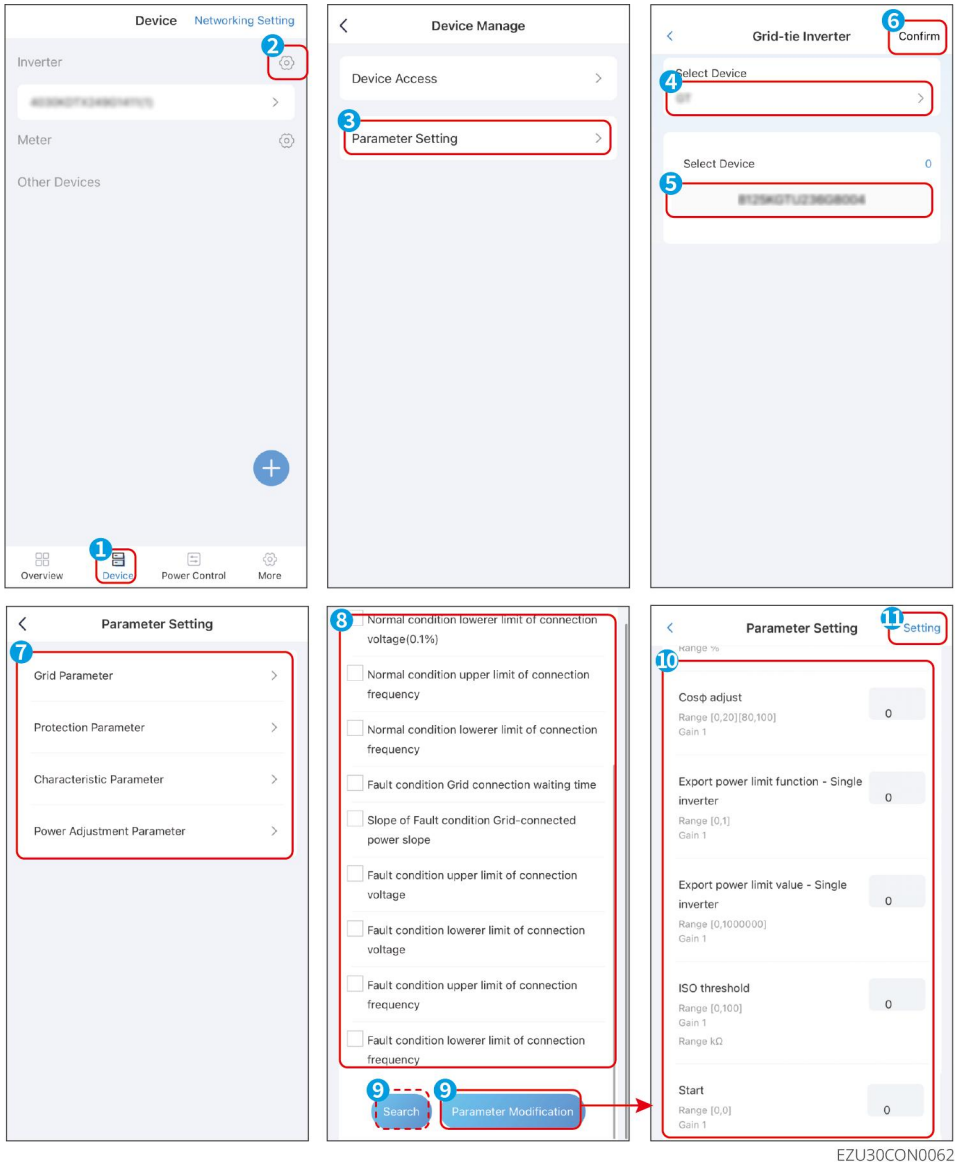
- The required configuration parameters differ depending on the inverter model. Refer to the actual web interface for specific settings.
- Supports selecting multiple inverters and setting the selected multiple inverters.
- Enter 0 or 1 to enable or disable a function. 0 indicates disable the function, and 1 indicates enable the function.
- After setting the safety regulation region, the inverter's grid parameters, protection parameters, characteristic parameters, and power adjustment parameters will be loaded with default device settings. If modifications are needed, configure parameters according to local regulations.

Step 1: Tap “Device” >  > “Parameter Setting”.

Step 2: Select the target device type and inverter SN. Tap “Confirm”.

Step 3: Tick the parameters to be viewed and tap “Search” to check current values.

Step 4: To modify parameters, tick the target parameters. Tap “Parameter Modification” to enter the setting page. Enter the value and tap “Setting” if required.



EZU30CON0062

Setting Grid Parameter

No.	Parameters	Description
1	Safety Code	Set the safety country in compliance with local grid standards and application scenario of the inverter.
2	SPD Detection Switch	Enable or disable SPD detection function.
3	Power On (Allowing Grid-connection Self-test)	Issue power on instructions to allow grid connection self-test.
4	Shutdown (Not Allowing Grid-connection Self-	Issue power off instructions to stop grid connection self-test.

	test)	
5	Output Method	Set whether the inverter's output includes the neutral (N) cable based on its application scenario. 0: three-phase four wire (3W/PE); 1: three phase five wire (3W/N/PE).
6	Shadow Scan Function Switch 1	PV strings may exist significant shading in PV systems where the inverter is applied. Enabling this feature, allows the inverter to perform a global MPPT scan at regular intervals to find the maximum power point.
7	Active Power Fixed Value Derating	Adjust the active power output of the inverter by fixed value.
8	Active Power Percentage Derating (0.1%)	Adjust the active power output of the inverter by percentage of rated power.
9	Reactive Power Compensation (PF)	Set the power factor of the inverter.
10	Reactive Power Compensation (Q/S)	Set the reactive power output from the inverter.
11	Reactive Power Compensation Fixed Value	Adjust the reactive power output of the inverter by fixed value.
12	Night Reactive Power Function Switch	Enable or disable night reactive power function. In some specific application scenarios, the power grid company requires that the inverter can perform reactive power compensation at night to ensure that the power factor of the local power grid meets requirements.
13	Night Reactive Power Parameters Taking Effect	Enable this function, the inverter outputs reactive power based on Fixed Value of Night Reactive Power Scheduling. Otherwise, the inverter executes the remote scheduling command.
14	Percentage of Night Reactive Power Scheduling (0.1%)	Schedule the reactive power by percentage during night reactive scheduling period.
15	Fixed Value of Night Reactive Power Scheduling	Schedule the reactive power by fixed value during night reactive scheduling period.

Setting Protection Parameters

No.	Parameters	Description
1	Over-voltage Stage n Trigger Value (0.1%)	Set the Level n overvoltage protection threshold.
2	Over-voltage Stage n Trip Time	Set the Level n overvoltage protection duration.
3	Under-voltage Stage n Trigger Value (0.1%)	Set the Level n undervoltage protection threshold.
4	Under-voltage Stage n Trip Time	Set the Level n undervoltage protection duration.
5	10min Over-voltage Trigger Value (0.1%)	Set the 10-min overvoltage protection threshold.
6	10Min Overvoltage Trip Time	Set the 10-min overvoltage protection duration.
7	Over-Frequency Stage n Trigger Value	Set the Level n overfrequency protection threshold.
8	Over-Frequency Stage n Trip Time	Set the Level n overvfrequency protection duration.
9	Under-Frequency Stage n Trigger Value	Set the Level n underfrequency protection threshold.
10	Under-Frequency Stage n Trip Time	Set the Level n underfrequency protection duration.
11	Start-up On-grid Voltage Upper Limit	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is higher than the Start-up Grid Connection Voltage Upper Limit.
12	Start-up On-grid Voltage Lower Limit	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is lower than the Start-up Grid Connection Voltage Lower Limit.
13	Start-up Grid Connection Frequency Upper Limit	The inverter cannot connect to the grid if it is powered on for the first connection and the grid frequency is higher than the Start-up Grid Connection Frequency Upper Limit.
14	Start-up Grid	The inverter cannot connect to the grid if it is powered on for the

	Connection Frequency Lower Limit	first connection and the grid frequency is lower than the Start-up Grid Connection Frequency Lower Limit.
15	Start-up Grid Connection Waiting Time	The waiting time for connecting the inverter to the grid when the inverter is powered on for the first connection.
16	Start-up Grid Connection Power Loading Rate (0.1%Pn/min)	Set the percentage of incremental output power per minute when the inverter is powered on for the first connection.
17	Reconnection Voltage Upper Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid voltage is higher than the set value of the Reconnection Voltage Upper Limit.
18	Reconnection Voltage Lower Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid voltage is lower than the set value of the Reconnection Voltage Lower Limit.
19	Reconnection Frequency Upper Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid frequency is higher than the set value of the Reconnection Frequency Upper Limit.
20	Reconnection Frequency Lower Limit	In some countries/regions, when the inverter is shut down due to a fault protection, it is not allowed to reconnect to the grid if the grid frequency is lower than the set value of the Reconnection Frequency Lower Limit.
21	Reconnection Waiting Time	Set the waiting time for the inverter to restart after a grid failure is restored.
22	Reconnection Power Loading Rate (0.1%Pn/min)	Set the percentage of incremental output power per minute when the inverter is not powered on for the first connection. For example, setting Reconnection Power Loading Rate to 10 means the reconnection slope is 10%Prated/min.
23	LVRT Enable	Low voltage ride-through (LVRT) refers to the situation, when the grid experiences a short-term low voltage abnormality, the inverter cannot immediately disconnect from the grid and has to work for a period of time. Enable this function, the inverter's LVRT is being activated.
24	LVRT Depth n	The ratio of the ride through voltage to the rated voltage at a feature point during LVRT.
25	Hold Time n	The ride through time at a feature point during LVRT.

26	Judgment Threshold of Entering LVRT	Set the threshold for triggering LVRT. The threshold settings should meet the local grid standard.
27	Judgment Threshold of Exiting LVRT	Set the threshold for exiting LVRT. The threshold settings should meet the local grid standard.
28	LVRT Positive Sequence Reactive Power K Value	During LVRT, the inverter needs to generate positive sequence reactive power to support the grid. This parameter is used to set the positive-sequence reactive power generated by the inverter.
29	LVRT Zero Current Mode Enable	The standards of some countries/regions require that the output current during LVRT should be limited. Enable this function, the output current is less than 10% of the rated current during LVRT.
30	Threshold of Entering Voltage	After enabling LVRT Zero Current Mode Enable, the zero current mode starts if the power grid voltage is less than Threshold of Entering Voltage during LVRT.
31	HVRT Enable	High voltage ride-through (HVRT) refers to the situation, when the grid experiences a short-term high voltage abnormality, the inverter cannot immediately disconnect from the grid and has to work for a period of time. Enable this function, the inverter's HVRT is being activated.
32	HVRT Depth n	The ratio of the ride through voltage to the rated voltage at a feature point during HVRT.
33	Hold Time n	The ride through time at a feature point during HVRT.
34	Judgment Threshold of Entering HVRT	Set the threshold for triggering HVRT. The threshold settings should meet the local grid standard.
35	Judgment Threshold of Exiting HVRT	Set the threshold for exiting HVRT. The threshold settings should meet the local grid standard.
36	HVRT Positive Sequence Reactive Power K Value	During HVRT, the inverter needs to generate positive sequence reactive power to support the grid. This parameter is used to set the positive-sequence reactive power generated by the inverter.
37	HVRT Zero Current Mode Enable	The standards of some countries/regions require that the output current during HVRT should be limited. Enable this function to set the output current less than 10% of the rated current during HVRT.
38	Threshold of Entering Voltage	After enabling HVRT Zero Current Mode Enable, the zero current mode starts if the power grid voltage is higher than Threshold of Entering Voltage during HVRT.
39	Current Distribution Mode	Set the sharing mode of reactive current and active current. 0: reactive power priority; 1: active power priority; 2: constant current mode.

40	Active Power Recovery Mode After Crossing	Active current recovery mode during ride-through recovery, supported mode: slope recovery, first-order LPF recovery, and no requirement. 0: disable; 1: slope response; 2: time constant; 3: respond time.
41	Active Power Recovery Rate After Riding Through	The rate at which the active current recovers during the ride through recovery process.
42	Resume 1st-order LPF after Crossing	The active current recovers at the characteristic of first order LPF after the ride through recovery.
43	Reactive power recovery mode after ride-through	Reactive current recovery mode during ride-through recovery, supported mode: slope recovery, first-order LPF recovery, and no requirement. 0: disable; 1: slope response; 2: time constant; 3: respond time.
44	Reactive Power Recovery Rate After Riding Through	The reactive current recovers at the slope after the ride through recovery.
45	Reactive power recovery at the end of ride through (First-order low-pass filter)	The reactive current recovers at the characteristic of first order LPF after the ride through recovery.
46	Frequency Riding Through Enable	After enabling Frequency Riding Through Enable, the inverter continues to generate power during required time even the grid frequency is abnormal.
47	n-order Under Frequency Riding Through Point_UFn	Set the level n underfrequency protection threshold value.
48	n-order Under Frequency Riding Through Time_UTn	Set the level n underfrequency protection tripping time.
49	n-order Over Frequency Riding Through Point_OFn	Set the level n overfrequency protection threshold value.
50	n-order Over Frequency Riding Through Time_OTn	Set the level n overfrequency protection tripping time.

Setting Characteristic Parameter

No.	Parameters	Description
1	EU Remote Shutdown Enable	Enable or disable remote shutdown function.
2	Anti-PID Function Switch	Enable or disable anti-PID.
3	PID Recovery Function Switch	Enable or disable PID recovery.
4	ISO Limit Set	To protect the equipment, the inverter performs an insulation impedance check on the input side during self-check at startup. If the measured value is lower than the set value, the inverter will not connect to the grid.
5	NPE Overvoltage Detection Switch	Enable or disable N-PE overvoltage detection.
6	N-PE Error Threshold	Set the N-PE overvoltage alarm threshold.
7	Active Power Scheduling Response Method	Set the active power scheduling response method. Supported method: gradient control or PT-1 behavior. 0: disable; 1: gradient control; 2: PT-1 behavior tau; 3: PT-1 behavior respond time.
8	Gradient of Active Power	Set the active power change slope.
9	Active Power Scheduling LPF Time	Set the low pass filtering time for active power scheduling.
10	Reactive Scheduling Response Method	Set the reactive power scheduling response method. Supported method: gradient control or PT-1 behavior. 0: disable; 1: gradient control; 2: PT-1 behavior tau; 3: PT-1 behavior respond time.
11	Gradient of Reactive Power	Set the low pass filtering time for reactive power scheduling.
12	Reactive Power Scheduling LPF Time	Set the low pass filtering time for reactive power scheduling.

Setting Power Adjustment Parameter

No.	Parameters	Description

1	Over-Frequency Start Point	The active power of the device will be derated according to a certain slope when the grid frequency exceeds overfrequency derating limit.
2	Power Response To Overfrequency Gradient	In Slope mode, the slope at which the active power output of the inverter is derated when the grid frequency exceeds the overfrequency point.
3	P(F) Curve Enable	Enable or disable PU curve.
4	Underfrequency Threshold	Standards in certain countries/regions require that the active power output of the inverter be increased when the grid frequency falls below the underfrequency point.
5	Recovery Power Slope	Set the power recovery slope for exiting overfrequency derating.
6	Frequency Hysteresis Point	Frequency correspondence point for over-frequency hysteresis function.
7	Tentional Delay Ta	Silent waiting time for over-frequency hysteresis function.
8	Overfrequency Endpoint	Set the exit frequency for over-frequency derating.
9	Reference Power （Slope）	Power reference value for the active power deration slope when grid frequency exceeds the overfrequency point in Slope mode.
10	Frequency Hysteresis Point	Frequency correspondence point for under-frequency hysteresis function.
11	Recovery Power Slope	Set the power recovery slope for exiting under-frequency derating.
12	Underfrequency Endpoint	Set the exit frequency for under-frequency power increase.
13	Reference Power （Slope）	Power reference value for the active power deration slope when grid frequency falls below the underfrequency point in Slope mode.
14	Under-Frequency Power Slope(Slope)	Slope of active power deration when grid frequency falls below the underfrequency point in Slope mode.
15	Tentional Delay Ta	Silent waiting time for under-frequency hysteresis function.
16	PU Curve Enable	Enable or disable PU curve.
17	Vn Voltage Value	The percentage of actual voltage to the rated voltage at Vn point.

	(0.1%)	
18	Vn Active Power Value (0.1%)	The percentage of the output active power to the apparent power at Vn point.
19	PU Curve Output Response Mode	The output response mode of the PU curve. Supported mode: gradient control or PT-1 behavior.
20	PU Curve Output Power Changing Rate	The power change slope when the PU Curve Output Response Mode is gradient control.
21	PU Curve Response Time Parameter	The response time when the PU Curve Output Response Mode is PT-1 behavior.
22	QU Curve Enable	Enable or disable PU Curve.
23	Vn Voltage Value (0.1%)	The percentage of actual voltage to the rated voltage at Vn point.
24	Vn Active Power Value (0.1%)	The percentage of the reactive output power to the apparent power at Vn point.
25	QU Curve Response Time Parameter	The response time when the QU curve output response Mode is PT-1 behavior.
26	Enter Curve Power (0.1%)	Enter the power percentage for the QU curve.
27	Exit Curve Power (0.1%)	Exit the power percentage for the QU curve.
28	osφ(P) Curve Enable	Enable or disable cosφ(P) curve.
29	Point n Power (0.1%)	The percentage of the inverter output active power to the rated power at point n.
30	point n cosφ Value (pf,0.001)	The power factor at point n.
31	cosφ(P) Curve Response Time	The response time when the cosφ(P) curve response Mode is PT-1 behavior.
32	Enter Curve Voltage (0.1%)	When the grid voltage is between Enter Curve Voltage and Exit Curve Voltage, the voltage meets Cosφ curve requirements.
33	Exit Curve Voltage (0.1%)	When the grid voltage is between Enter Curve Voltage and Exit Curve Voltage, the voltage meets Cosφ curve requirements.
34	QP Curve Enable	Enable or disable QP purve.
35	QP Curve Pn	The percentage of the output active power to the rated power at Pn point.

36	QP Curve Qn	The percentage of the output active power to the rated power at Pn point.
37	QP Curve Output Response Time	The response time when the QP curve output response Mode is PT-1 behavior.

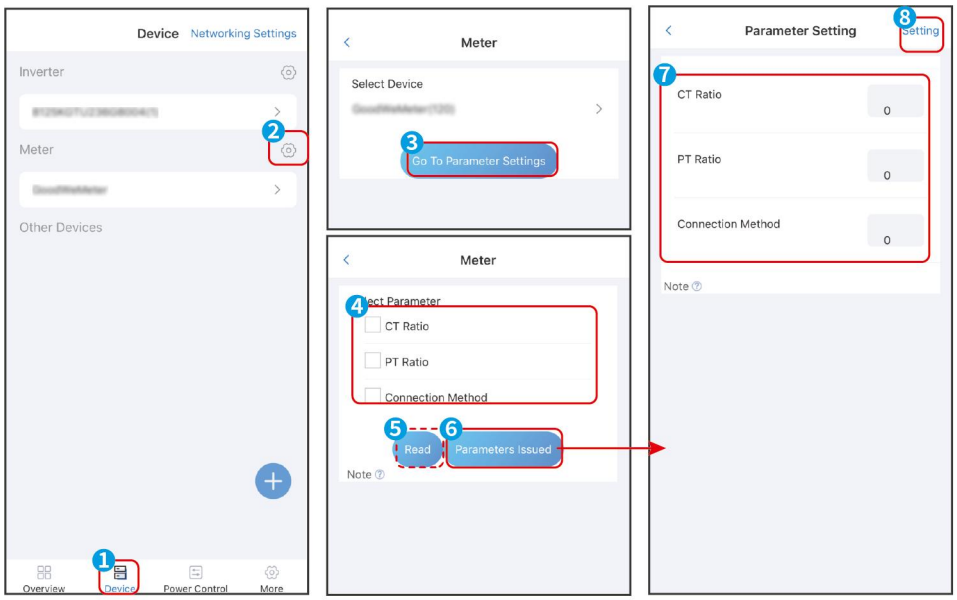
8.3.6. Settings the Smart Meter

Step 1: Tap “Device” > .

Step 2: Select the target smart meter and tap “Go To Parameter Settings”.

Step 3: Tick the parameters to be viewed and tap “Search” to check current values.

Step 4: To modify parameters, tick the target parameters. Tap “Parameters Issued” to enter the setting page. Enter the value and tap “Setting” if required.



EZU30CON0066

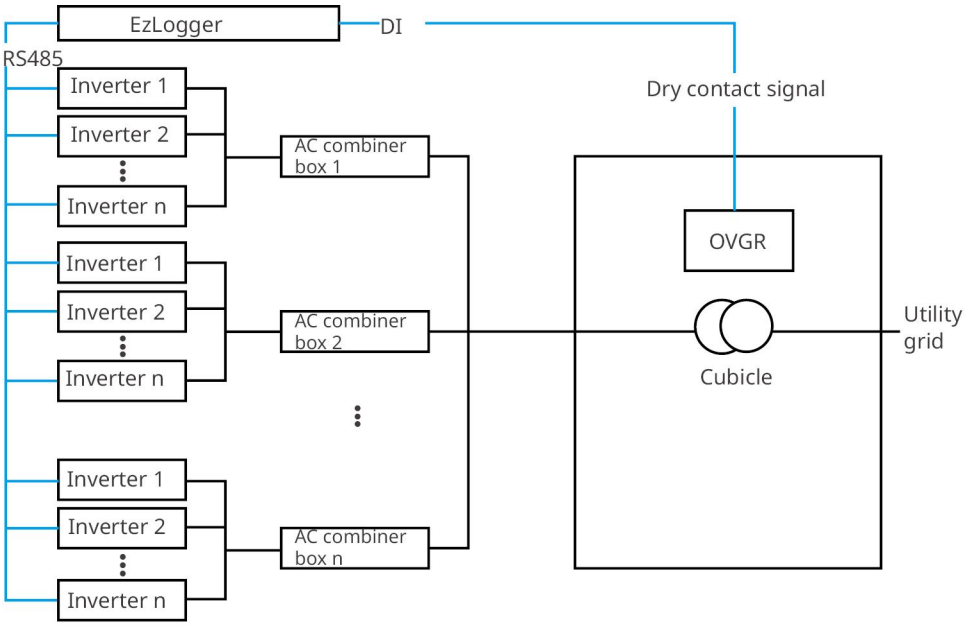
No.	Parameters	Description
1	CT Ratio	Set the ratio of the primary current to the secondary current of the CT.
2	PT Ratio	Set the ratio of the primary voltage to the secondary voltage of the PT.
3	Connection Method	Set the connection method of the meter.

8.3.7. Setting Power Control Parameters

8.3.7.1. Setting OVGR&RPR Parameters

8.3.7.1.1. Setting OVGR Parameters

The standards of Japan and some other regions require that the OVGR can connect to any DI port of the EzLogger to shut down the inverter over OVGR signals.

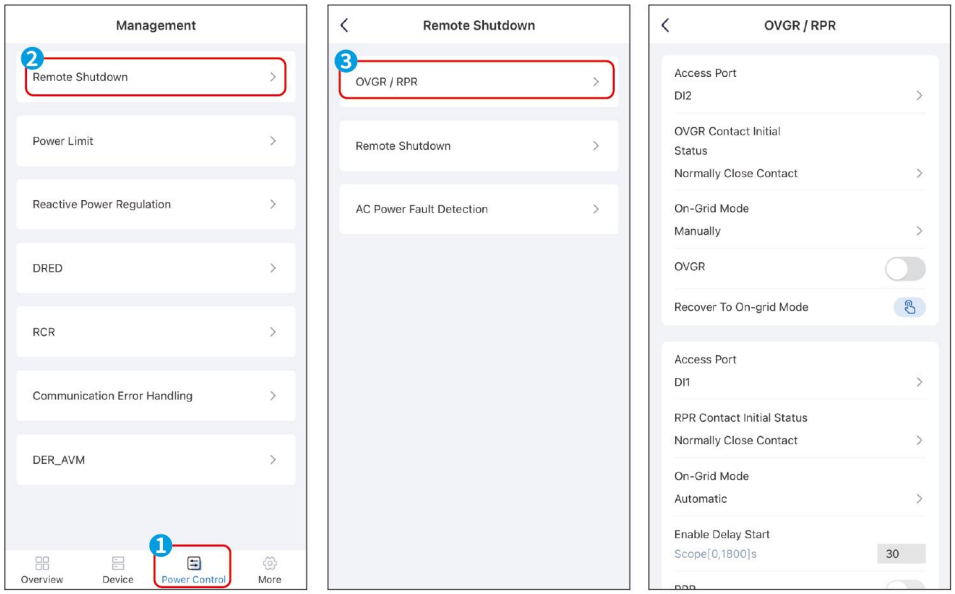


Step 1: Tap “Power Control” > “Remote Shutdown” > “OVGR&RPR”.

Step 2: Tap "Access Port" and select the port connected to the EzLogger from the dropdown menu based on the actual wiring.

Step 3: Select the "OVGR Contact Initial Status" and "On-Grid Mode" according to utility and electrical requirements. Default: OVGR Contact Initial Status = Normally Closed Contact; On-Grid Mode = Manually.

Step 4: Enable the "OVGR".



EZU30CON0063

No.	Parameters	Description
1	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: DI1, DI2, DI3, DI4.
2	OVGR Contact Initial Status	Set the initial status of OVGR. Supported: Normally Close Contact or Normally Open Contact.
3	Grid-tied mode	Reconnect to the utility grid manually or automatically when the inverter is restarting due to remote shutdown.
4	Enable Delay Start	Set Enable Delay Start when the On-grid Mode is Automatic. The automatic on-grid connection will be delayed after the OVGR restores to the initial contact status.
5	OVGR	Enable or disable OVGR function.
5	Recover to On-grid Mode	● If the On-grid Mode is Manual, click Recover to On-grid Mode to reconnect to the utility grid. ● If the On-grid Mode is Automatic, the inverter will reconnect to the utility grid automatically after the OVGR restores to the initial contact status. ● Before clicking Recover to On-grid Mode, ensure that the fault has been resolved. Otherwise, the reconnection will fail.

8.3.7.1.2. Setting RPR Parameters

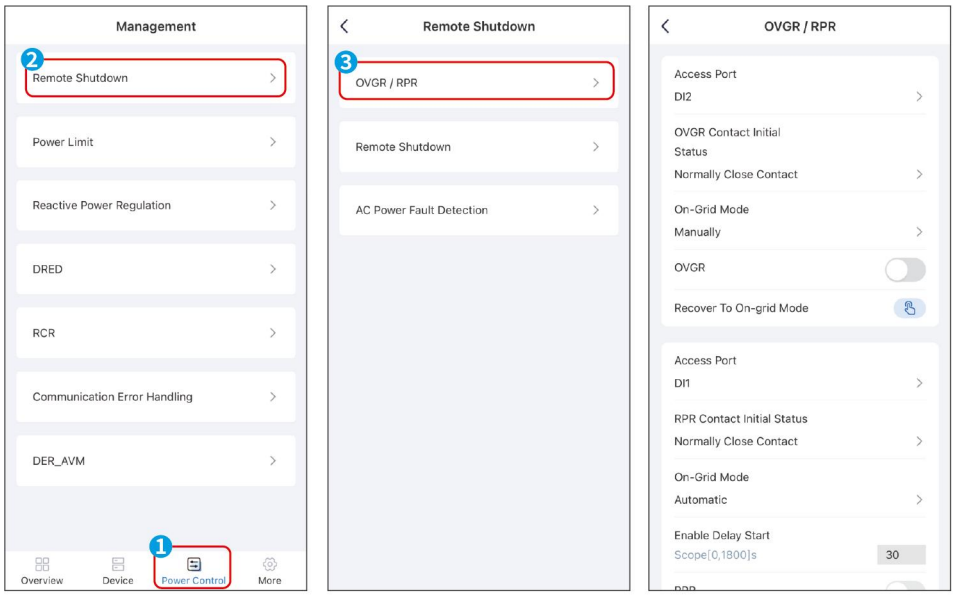
The standards of Japan and some other regions require that the RPR can connect to any DI port of the EzLogger to shut down the inverter over OVGR signals.

Step 1: Tap “Power Control” > “Remote Shutdown” > “OVGR&RPR”.

Step 2: Tap "Access Port" and select the port connected to the EzLogger from the dropdown menu based on the actual wiring.

Step 3: Select the "RPR Contact Initial Status" and "On-Grid Mode" according to utility and electrical requirements. Default: RPR Contact Initial Status = Normally Closed Contact; On-Grid Mode = Manually.

Step 4: Enable the "RPR".

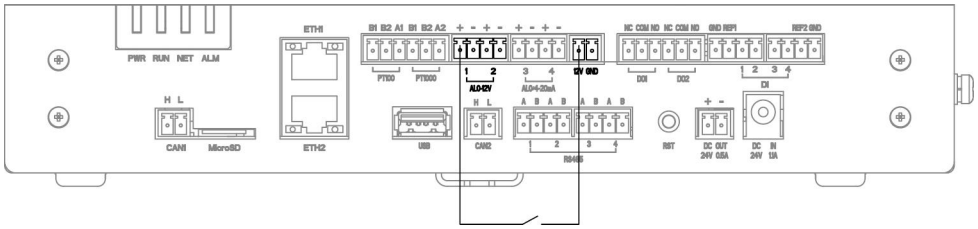


EZU30CON0063

No.	Parameters	Description
1	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: DI1, DI2, DI3, DI4.
2	PRR Contact Initial Status	Set the initial status of RPR. Supported: Normally Close Contact or Normally Open Contact.
3	Grid-tied mode	Reconnect to the utility grid manually or automatically when the inverter is restarting due to remote shutdown.
4	Enable Delay Start	Set Enable Delay Start when the On-grid Mode is Automatic. The automatic on-grid connection will be delayed after the RPR restores to the initial contact status. Set the parameter as required by the grid company.
5	RPR Switch	Enable or disable RPR function.
6	Recover to On-grid Mode	If the On-grid Mode is Manual, click Recover to On-grid Mode to reconnect to the utility grid. If the On-grid Mode is Automatic, the inverter will reconnect to the utility grid automatically after the RPR restores to the initial contact status.

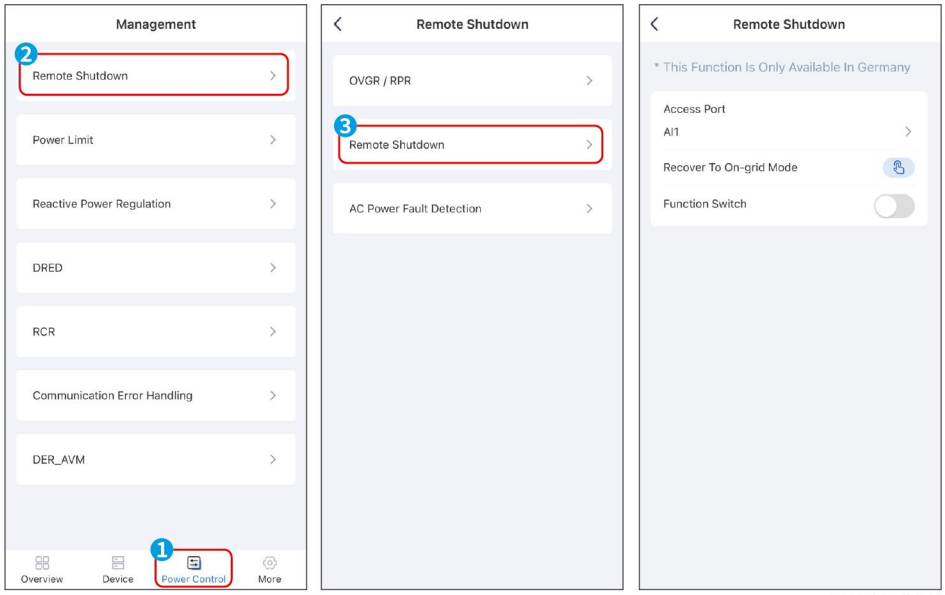
8.3.7.2. Setting Remote Shutdown Parameters

Connect the remote shutdown device to AI1+ or AI2+ port and 12V Output port of the EzLogger to realize remote shutdown.



Step 1: Tap “Device Maintenance” > “Remote Shutdown” > “Remote Shutdown”.

Step 2: Set the remote shutdown device port and status, tap “Function Switch” to enable the function.



EZU30CON0064

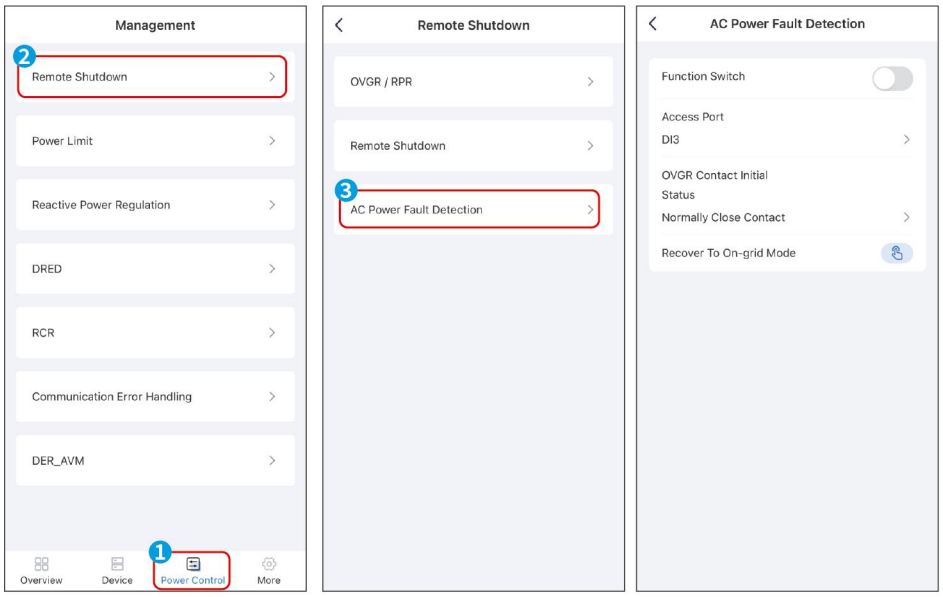
No.	Parameters	Description
1	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: AI1 or AI2.
2	Recover to On-grid Mode	If the the inverter is power off, click Recover to On Grid Mode to restart and reconnect the inverter to the utility grid .
3	Function Switch	Enable or disable remote shutdown function.

8.3.7.3. Setting AC Power Fault Parameters

The standards of Japan and other regions require that when there are AC power faults, it is not allowed to connect the inverter to the utility grid. Connect the external AC power fault detection device to any DI port of the controller for AC power fault detection.

Step 1: Tap “Device Maintenance” > “Remote Shutdown” > “AC Power Fault Detection”.

Step 2: Set the AC power fault detection device port and status, tap “Function Switch” to enable the function.



EZU30CON0065

No.	Parameters	Description
1	Function Switch	Enable or disable AC power fault detection.
2	Access Port	Select the actual port on the EzLogger which the OVGR is connected to. Supported: DI1, DI2, DI3, DI4.
3	Initial Contact Status	Select the initial contact status of the port. Supported: Normally Close Contact or Normally Open Contact.
4	Recover to On-grid Mode	If the the inverter is power off, click Recover to On Grid Mode to restart and reconnect the inverter to the utility grid.

8.3.7.4. Setting Power Limit Parameters

If the power generated by the PV system cannot be consumed by loads, the remaining power will be fed into the utility grid. Control the power fed into the grid by setting the Power Limit parameters.

Step 1: Tap ““Power Control” > “Power Limit”.

Step 2: In the "Installed Capacity of Grid-tie Inverter" field, enter the total rated power of all inverters (sum of individual inverter ratings).

Step 3: Enter the maximum power allowed to feed into the grid in “Installed Capacity of Grid-Tie Inverter". For full self-consumption scenarios or when using RPR, set this value to 0.

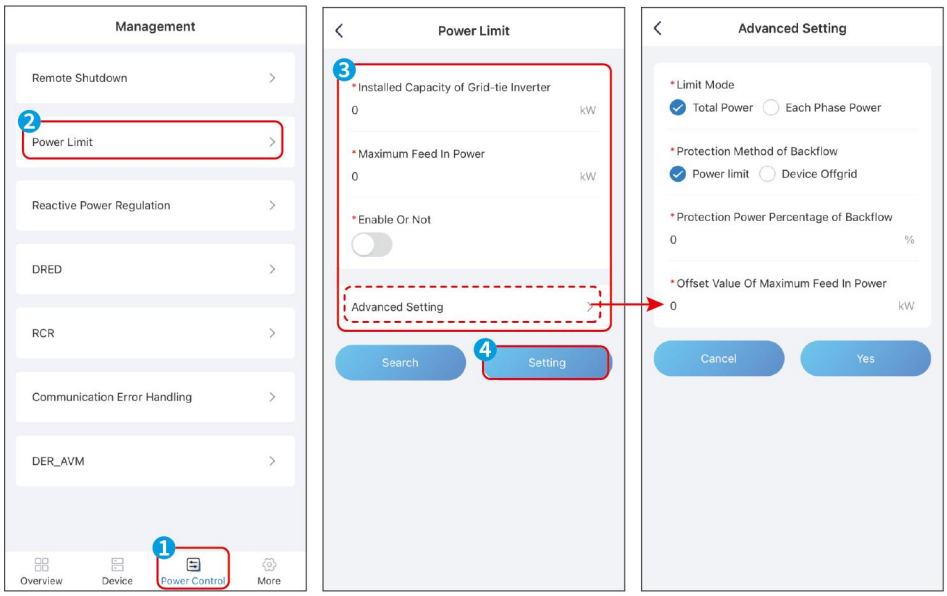
Step 4: Tap "Enable Or Not" to enable the power limit function.

Step 5: Tap "Advanced Settings".

Step 6: In the Advanced Setting interface, select the appropriate Limit Mode to control the inverter’s output power based on the actual system.

Step 7: Select the inverter’s response to power limit. If the RPR fails to trip, the inverter will still trigger protection within a specified time. After selecting "Power Limit", set the reverse power protection threshold (as a percentage of rated power).

Step 8: For users with frequently fluctuating or large-range load variations, set an offset value to improve anti-reverse power accuracy. In the "Offset Value Of Maximum Feed In Power" field, enter the desired offset value. Example: Setting -0.2 kW will cause the system to actively draw 0.2 kW from the grid to prevent reverse power flow.



EZU30CON0068

No.	Parameters	Description
1	Installed Capacity of Grid-tie Inverter	Set the total capacity of all inverters in the system.
2	Maximum Feed In Power	Set the maximum power that is allowed feed into the utility grid based on local grid standards and requirements.
3	Start Control	Enable or disable Power Limit.
4	Limit Mode	Select the output power control mode based on actual situation. • Total Power: controls the total power at the grid-connection point to limit the power fed to the power grid. • Each Phase Power: controls the power of each phase at the grid-connection point to limit the power fed to the power

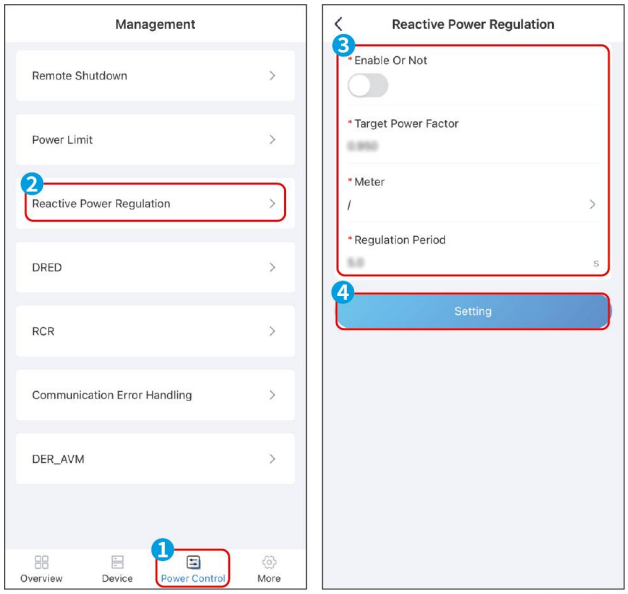
		grid.
5	Protection Method of Backflow	The power feed into the utility grid is allowed to exceed the limit value within a specified duration(5s by default). The following measures can be taken when output power exceeds the limit value more than the maximum allowed time: • Power Percentage: the equipment continues to work at the percentage of the rated power. • Device Offline: stop the equipment.
6	Protection Power Percentage of Backflow	The equipment works at the percentage of the rated power.
7	Offset Value Of Maximum Feed In Power	• Set the adjustable range of the maximum power to be exported to the utility grid. • Maximum power exported to the utility grid = maximum feed in power + offset value of maximum feed in power.
8	Meter Communication Abnormal Processing	Enable Meter Communication Abnormal Processing, protective measures will be taken when the communication between the smart meter and the EzLogger is abnormal.
9	Meter Abnormal Processing Method	The following measures will be taken when the smart meter communication is abnormal. • Power Percentage: the equipment continues to work at the percentage of the rated power. • Device Offline: stop the equipment.
10	Meter Processing Power Percentage	The equipment works at the percentage of the rated power.

8.3.7.5. Setting the Reactive Power Regulation Parameters

- When the PV plant needs to maximize benefits by adjusting the power factor, it can collect grid connection point power data from the smart meter, and regulate the reactive power output of the PV system according to the set values, thus optimizing the gateway power factor.
- Only applicable to scenarios in which a single smart meter is used in the PV system.

Step 1: Tap “Power Control” > “Reactive Power Regulation”.

Step 2: Set the parameters based on actual needs and tap “Setting”.



EZU30CON0073

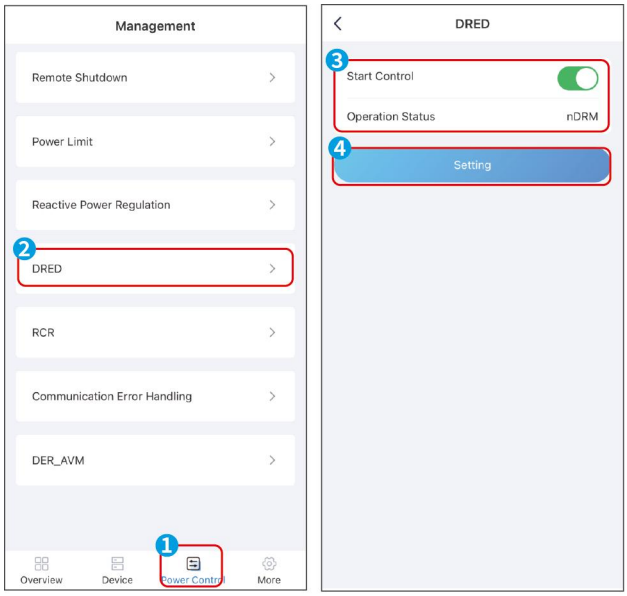
No.	Parameters	Description
1	Start Control	Enable or disable Reactive Power Regulation.
2	Target Power Factor	Set power factor based on actual needs.
3	Meter	Select the meter on the grid side. The system acquires on-grid power data according to selected meter. Currently supported: GoodWe smart meter and Acrel smart meter(DTSD1352).
4	Regulation Period	Set the period of power factor value detection. Usually set as 5 seconds.

8.3.7.6. Setting DRED Parameters

- The standards of Australia and other regions require that the inverter must pass DRM (DEMAND RESPONSE MODES) certification.
- To realize DRM, connect DRED (Demand Response Enabling Device) to DI1/DI2/DI3/DI4/REFI/REF2 port of the EzLogger.

Step 1: Tap “Power Control” > “DRED”.

Step 2: Set the DRED parameters based on actual needs, and tap “Settings”.



EZU30CON0069

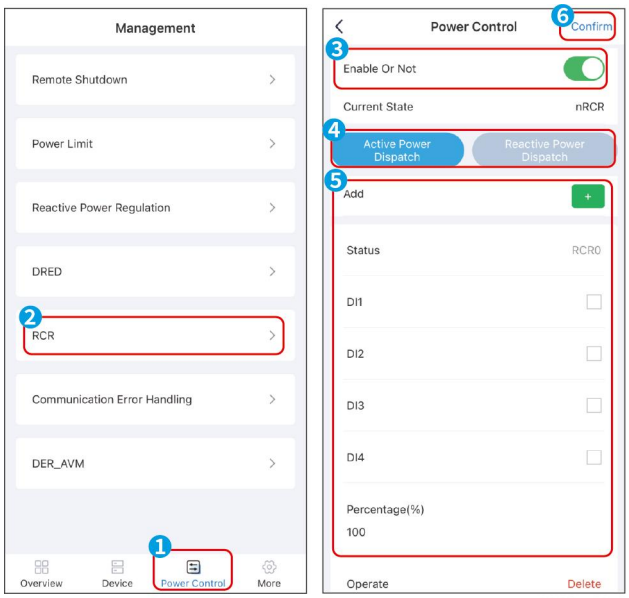
No.	Parameters	Description
1	Start Control	Enable or disable DRED.
2	Operation Status	• The connection status of the device, including: nDRM, DRM5, DRM6, DRM7, DRM8. • nDRM: the device works at full power.

8.3.7.7. Setting RCR Parameters

- The standards of German and other regions require that the inverter must provide signal controlling port for RCR (Ripple Control Receiver), which can be used for grid scheduling.
- To realize RCR, connect RCR to DI1/DI2/DI3/DI4/REF1 port of the EzLogger for active power derating, or connect RCR to DI1/DI2/DI3/DI4/REF2 port of the EzLogger for reactive power scheduling.

Step 1: Tap “Power Control” > “RCR”.

Step 2: Set the RCR parameters based on actual needs, and tap “Settings”.



EZU30CON0070

No.	Parameters	Description
1	Start Control	Enable or disable RCR.
2	Operation Status	• The operation status of the device. For instance, RCR1(100) means the current operation state is RCR1, and feed in power accounts for 100% of the rated power. • nRCR: operation status does not take effect.
3	Active Dispatch Mode	• Select one or more DI ports according to the grid company's requirements and RCR fixture type, and configure the corresponding percentage. Percentage refers to the ratio of the system's output power to its rated power. • Support configuration of 16 percentage levels. Configure based on the actual requirements of the grid company. • Do not repeat setting of state combinations of DI1–DI4. Otherwise, the function will not operate properly. • If the actual DI port wiring connection does not match the web configuration, the operation state will not take effect.
4	Reactive Scheduling	• Select one or more DI ports according to the grid company's requirements and RCR fixture type, and set the corresponding PF values. • Support configuration of 16 power factor levels. Configure based on the actual requirements of the grid company.Support configuration of 16 percentage levels. Configure based on the actual requirements of the grid company. • The PF value must be within the ranges [-100, -80] or [80,

		100]. Values in [-100, -80] correspond to a lagging power factor of [-0.99, -0.8], and values in [80, 100] correspond to a leading power factor of [0.8, 1]. • Do not repeat setting of state combinations of DI1–DI4. Otherwise, the function will not operate properly. • If the actual DI port wiring connection does not match the web configuration, the operation state will not take effect.

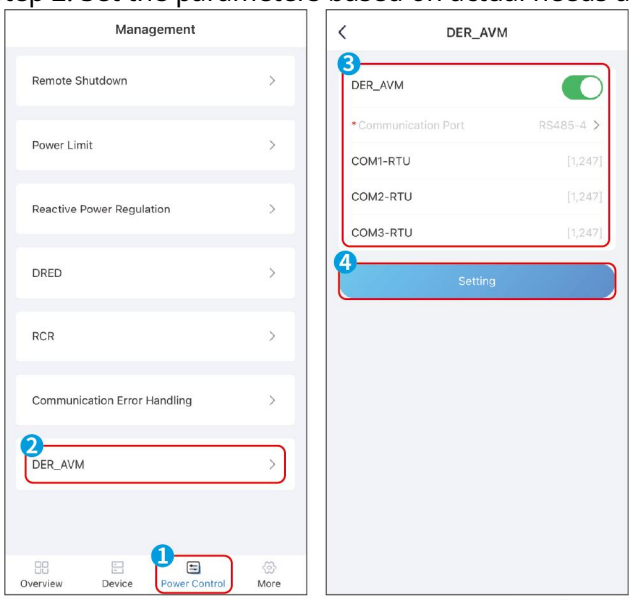
8.3.7.8. Setting DER_AVM Parameters

The standards of Korea and other regions require that the inverters must provide a signal controlling port for DER_AVM, which can be used for grid scheduling.

To realize DER_AVM, connect a third party KDN device to RS485-4 of the EzLogger.

Step 1: Tap “Power Control” > “DER_AVM”.

Step 2: Set the parameters based on actual needs and tap “Setting”.



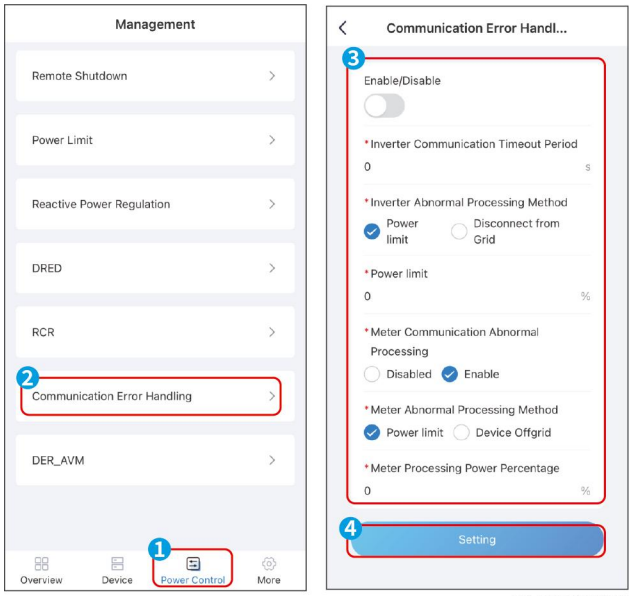
EZU30CON0072

No.	Parameters	Description
1	Start Control	Enable or disable DER_AVM.
2	Communication Port	Port for connecting the KDN device and the EzLogger. The default port is RS485-4.
3	COM1-RTU	Set the RTU communication address of the RS485 1/2/3 port. The KDN device recognizes the port address and sends scheduling command to the inverter connected via the corresponding port.
4	COM2-RTU	
5	COM3-RTU	

8.3.7.9. Setting Communication Error Handling Parameters

Step 1: Tap “Power Control” > “Communication Error Handling”.

Step 2: Set the parameters based on actual needs, and tap “Settings”.



EZU30CON0071

No.	Parameters	Description
1	Enable/Disable	Enable Communication Error Handling, protective measures will be taken when the communication between the inverter and the EzLogger or the smart meter is abnormal.
2	Inverter Communication Timeout Period	The protective measures will be taken when the communication exception time exceeds the set time.
3	Inverter Abnormal Process Method	The following measures can be taken when the communication between the inverter and the EzLogger is abnormal: ● Power Percentage: the equipment continues to work at the percentage of the rated power. ● Device Offline: stop the equipment.
4	Meter Communication Abnormal Processing	Enable Meter Communication Abnormal Processing, protective measures will be taken when the communication between the smart meter and the EzLogger is abnormal.
5	Meter Abnormal Processing Method	The following measures will be taken when the smart meter communication is abnormal. ● Power Percentage: the equipment continues to work at the

		percentage of the rated power. ● Device Offline: stop the equipment.
6	Meter Processing Power Percentage	The equipment works at the percentage of the rated power.

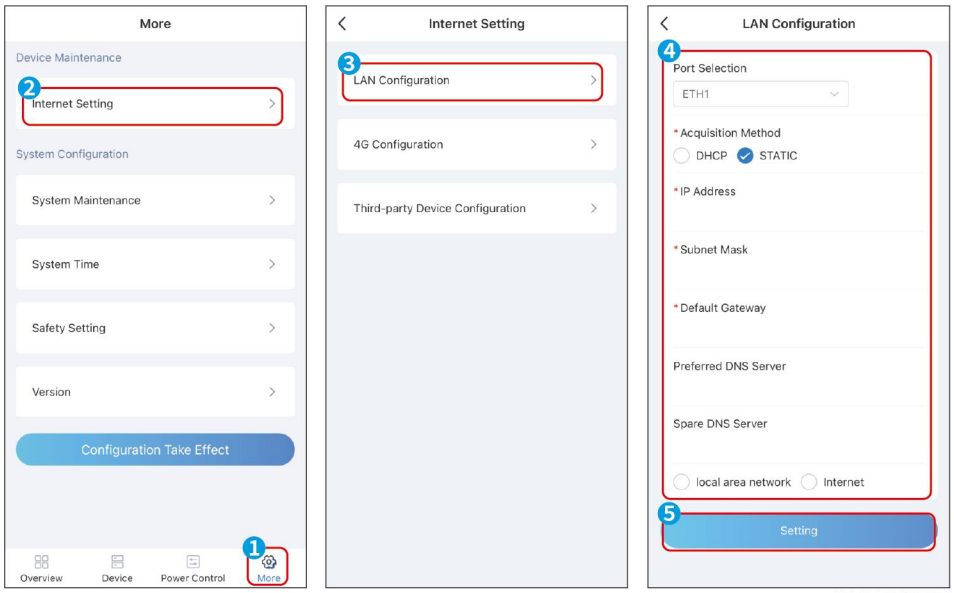
8.3.8. Setting the Port Parameters

NOTICE
The default network parameters will be displayed based on actual settings. Configure the parameters according to actual needs if necessary.

8.3.8.1. Setting LAN Parameters

Step 1 Tap “More” > “Internet Setting” > “LAN Configuration”.

Step 2: Set the ETH parameters based on actual needs.



EZU30CON0074

No.	Parameters	Description
1	Port Selection	Select the connected network port of the EzLogger. Supported: ETH1 or ETH2.
2	Acquisition Method	● Manually set the fixed network parameters based on actual situation when selecting STATIC mode. ● The IP address can be obtained automatically when selecting DHCP mode.
3	IP address	Set the IP address of the EzLogger. Set the IP address on the same network segment as the router IP address, and based on the power

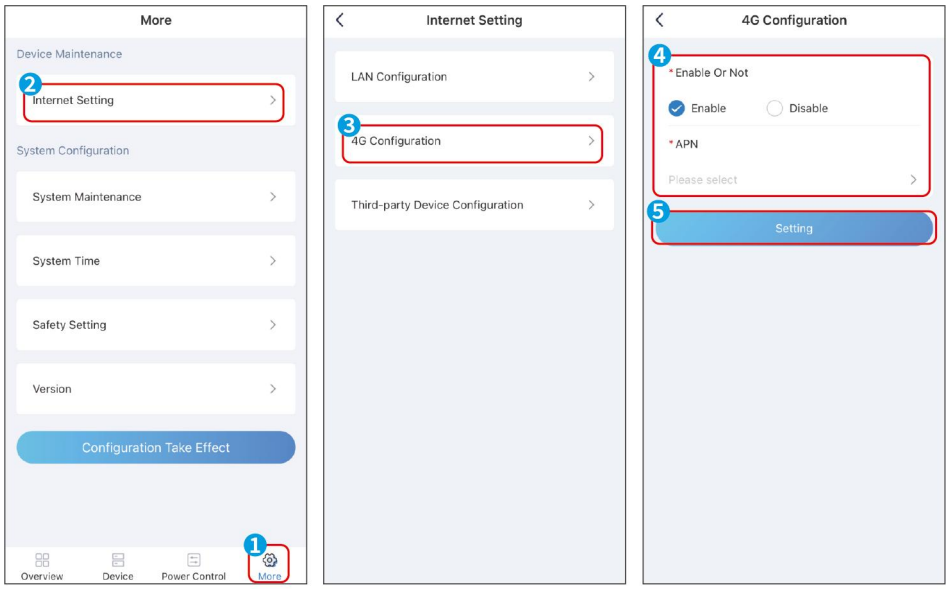
		plant planning. If the IP address is modified, log in with the new IP address.
4	Subnet Mask	Set the subnet mask of the EzLogger. Set the parameter based on the actual subnet mask of the router connected to the EzLogger.
5	Default Gateway	Set the default gateway of the EzLogger. Set the parameter based on the actual gateway of the router connected to the EzLogger.
6	Preferred DNS Server	Set the parameter as the IP address of the LAN's router when connecting to a public network, for example, connecting to GoodWe server, using a domain name for the server address.
7	Spare DNS Server	Ignore this parameter in common situations. When the preferred DNS server fails to resolve a domain name, use the alternate DNS server.
8	Local area network/Internet	● Select Internet to connect to the server and transfer data to the cloud. ● Select Local area network to connect to the third party monitoring platform.

8.3.8.2. Setting 4G Parameters

NOTICE
● 4G is available in some countries and regions. Contact local distributors for more details. ● Disconnect the network cable between the EzLogger and the router after enabling 4G communication. Otherwise, the communication may fail.

Step 1: Tap "More" > "Internet Setting" > "4G Configuration".

Step 2: Set the APN parameters based on actual needs.



EZU30CON0076

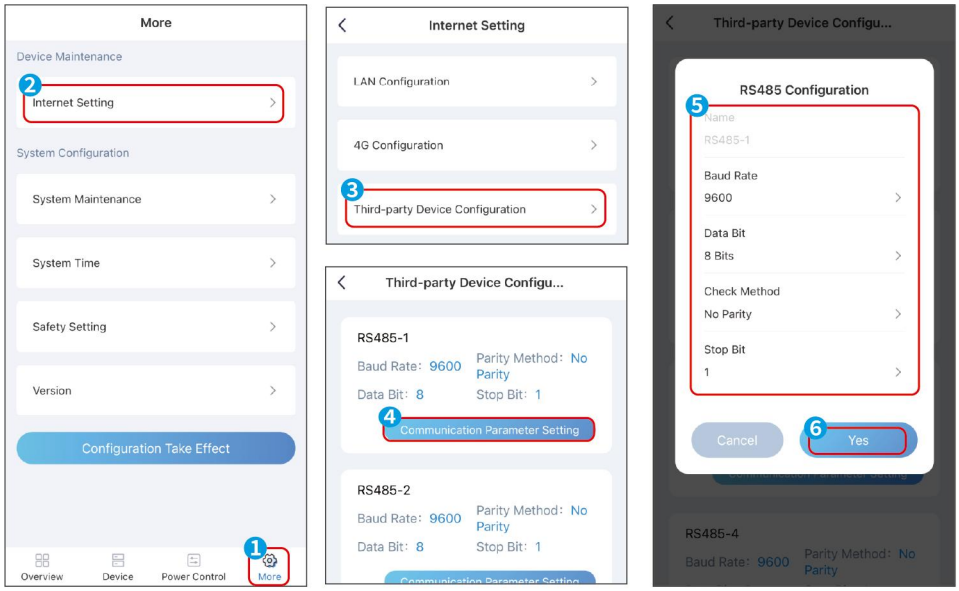
No.	Parameters	Description
1	Enable Or Not	Enable or disable 4G function. Applicable only when the EzLogger accesses the system over the 4G network.
2	APN	Select the operator based on actual situation.

8.3.8.3. Setting RS485 Parameters

NOTICE
Configure the RS485 parameters when connecting third-party devices. For GoodWe devices, keep the default settings.

Step 1: Tap “More” > “Internet Setting” > “Third-party Device Configuration”.

Step 2: Set the RS485 parameters based on actual needs.



EZU30CON0075

No.	Parameters	Description
1	Name	Select the actual connected RS485 port of the device.
2	Baud Rate	Set according to the baud rate of the connected equipment. Supported baud rate: 300, 1200, 2400, 4800, 9600, 19200.
3	Data Bit	Supported value: 7 bits or 8 bits.
4	Parity Method	Set according to the parity check method of the connected equipment. Supported values: No Parity, Odd Parity, Even Parity, 1 Parity, or 0 Parity.
5	Stop Bit	Set according to the stop bit of the connected equipment. Supported values: 1, 1.5, and 2.

9. System Maintenance

9.1. Power Off

DANGER
Power off the equipment before operations and maintenance. Otherwise, the equipment may be damaged or electric shocks may occur.

Step 1: Disconnect the power adapter from the AC socket.
Step 2: Disconnect the power adapter from the EzLogger.

9.2. Removing the EzLogger

DANGER

- Make sure that the equipment is powered off.
- Wear proper personal protective equipment during operations.

Step 1 Disconnect all electrical connections of the equipment, including the power cable and communication cables.

Step 2 Remove the Equipment.

Step 3 Store the equipment properly. If the equipment needs to be used later, ensure that the storage conditions meet the requirements.

9.3. Disposing of the EzLogger

If the equipment cannot work anymore, dispose of it according to the local disposal requirements for electrical equipment waste. The equipment cannot be disposed of together with household waste.

9.4. Routine Maintenance

WARNING

Power off the equipment before operations and maintenance. Otherwise, the equipment may be damaged or electric shocks may occur.

Maintaining Item	Maintaining method	Maintaining Period	Maintaining purpose
Electrical connection	Check whether the cables are securely connected. Check whether the cables are broken or whether there is any exposed copper core.	Once 6-12 months	Confirm the reliability of electrical connections.
Environmental inspection	Check whether there is any high electromagnetic interference devices or heat sources around the EzLogger.	Once 6-12 months	Environmental inspection

9.5. System Maintenance (Web)

9.5.1. Upgrading

NOTICE
• Ensure that the EzLogger is powered on during the upgrade. Otherwise, the upgrade may fail. • During upgrade, the web will turns to log in page automatically. Do not log in during the upgrade period. • It takes about 10min for upgrading. • The update method via USB drive is only applicable to EzLogger with main program version v6.2.1 or higher.

- Upgrading via USB flash drive (only for EzLogger)

NOTICE
Before upgrading, ensure that only the required upgrade package is present on the USB drive. If multiple packages are found, the system will read the first one, which may result in a failed update.

Step 1 Obtain the upgrading package from after-sales service and prepare a FAT32 USB flash drive (≤32G).

Step 2 Create a new folder named **collector** in the root directory of the USB flash drive. Put the upgrade folder into the collector folder.

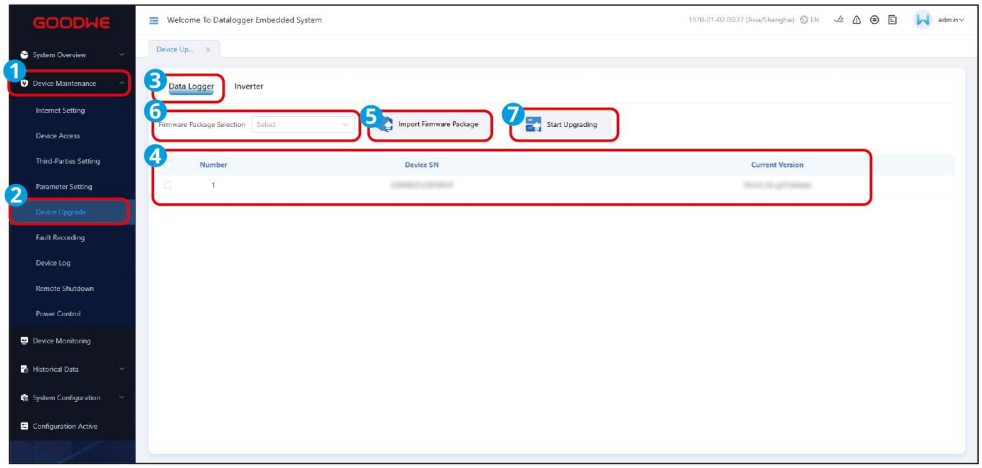
Step 3 Insert the USB drive into the data collector's USB port. After the device detects the upgrade package and begins the update, the ALM indicator will start blinking rapidly. If the ALM indicator does not switch to a rapid blinking state, check the upgrade package and the status of the USB drive.

Step 4 The EzLogger will restart automatically after upgrading. The USB drive must be removed to prevent a repeated upgrade process.

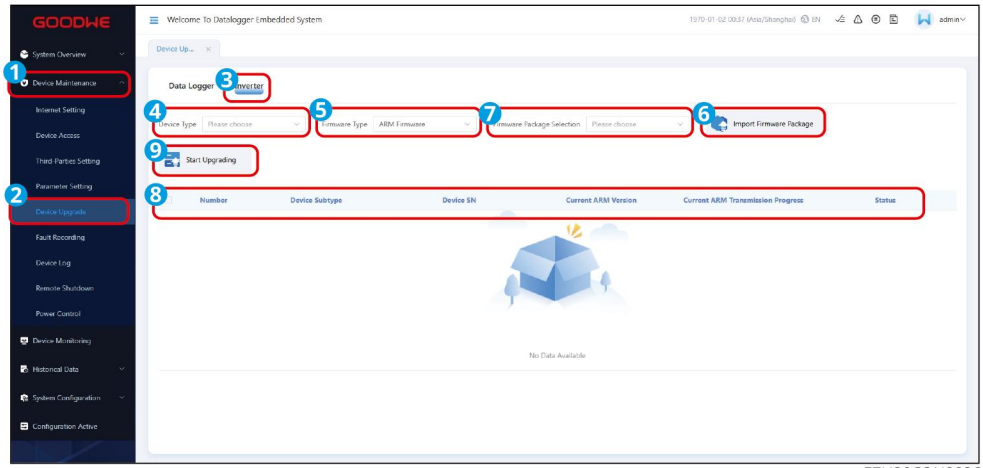
- Upgrading via Web

Step 1 Obtain the upgrading package from after-sales service.

Step 2 Save the upgrade package to the PC and upgrade the device as following.

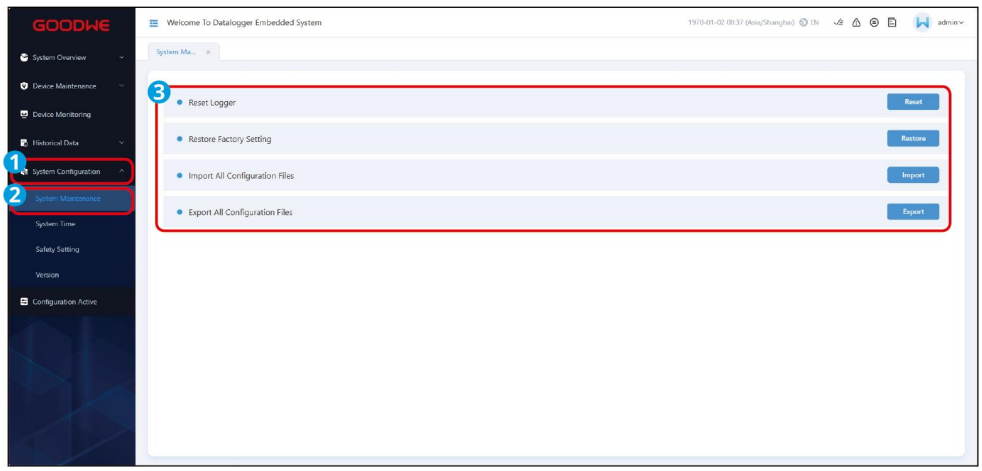


EZU30CON0037



EZU30CON0036

9.5.2. Maintaining the System



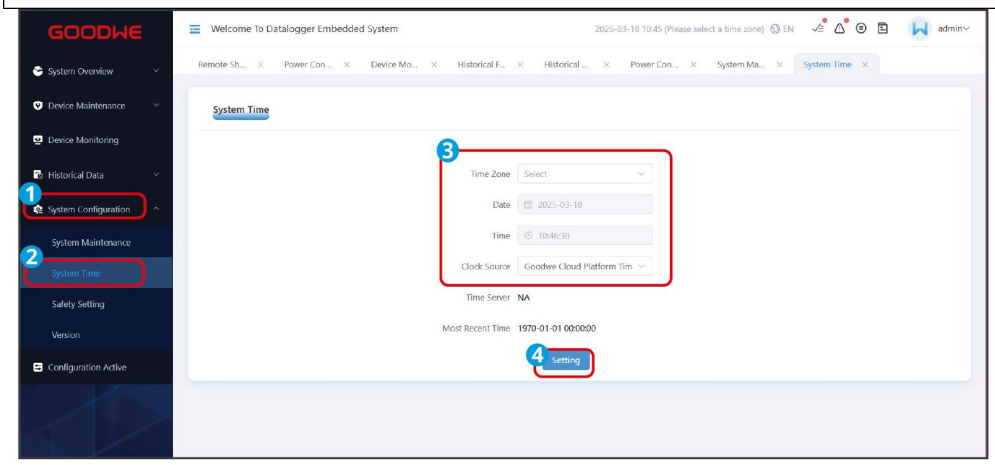
EZU30CON0040

No.	Parameters	Description
1	Reset Logger	Perform a system reset, and the EzLogger will automatically shut down and restart.
2	Restore Factory	● Restore Factory Setting: clear device access information,

	Setting	third-party information, login password. ● Communication Configuration(optional): restore network settings. ● Data Collection(optional): clear logs, historical alarms, historical data.
3	Import All Configuration Files	Before replacing the EzLogger, export the configuration file to the local storage.
4	Export All Configuration Files	After replacing the EzLogger, import the previously exported configuration file from the local storage to the new EzLogger. Once the import is successful, the EzLogger will restart, and the configuration file will take effect. Verify that the device parameters are correctly configured.

9.5.3. Setting System Time

NOTICE
Modifying the date and time will affect the integrity of the system's power generation and performance data records. Refrain from changing the time zone and system time arbitrarily.



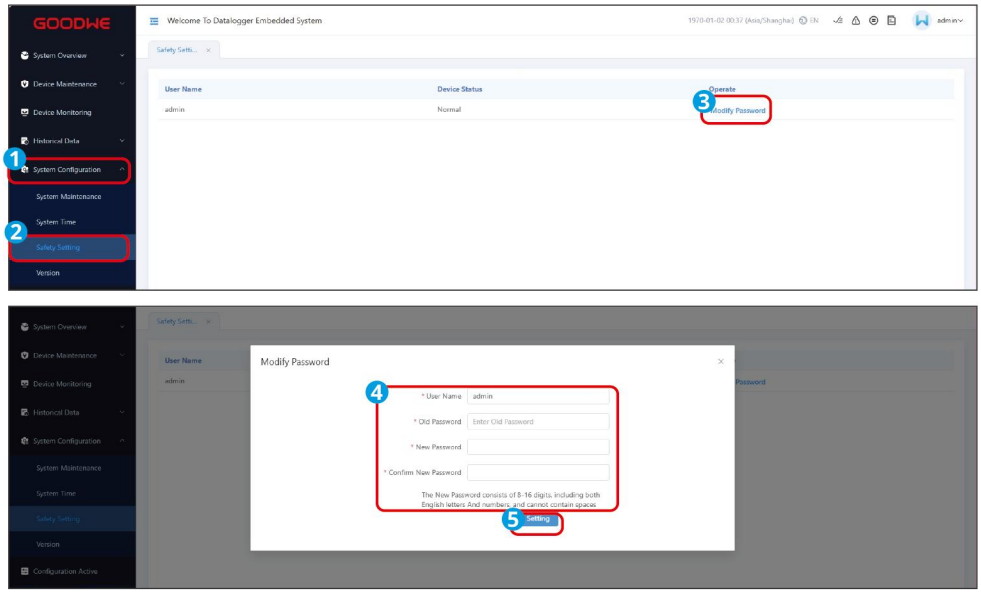
EZU30CON0024

No.	Parameters	Description
1	Time Zone	The parameters can be modified when Manual Synchronization is selected as Clock Source.
2	Date	
3	Time	
4	Clock Source	Set the clock source. Supported: NTP, Modbus-TCP, Manual Synchronization, Goodwe Cloud Platform Time Synchronization.

9.5.4. Change the WiFi Password

Step 1 Click “System Configuration” > “Safety Setting”.

Step 2 Click “Modify Password”, input the old password and new password, and click “Setting”.



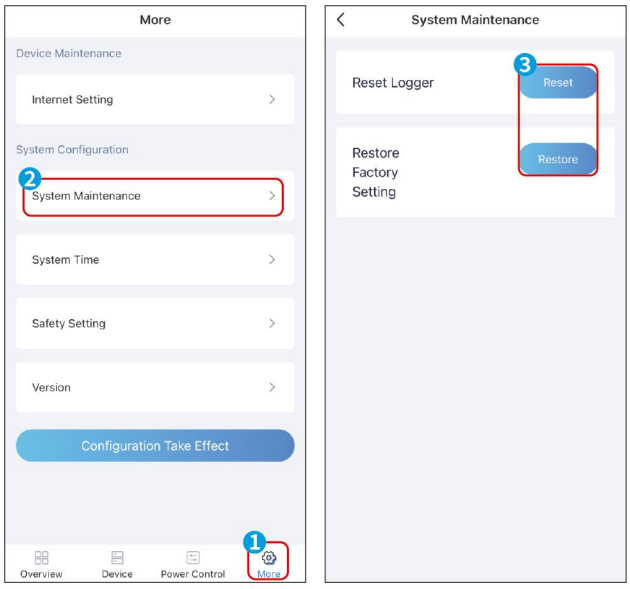
EZU30CON0043

9.6. System Maintenance (App)

9.6.1. Maintaining the System

Step 1: Tap “More” > “System Maintenance”.

Step 2: Reset the EzLogger or restore factory settings based on actual needs.



EZU30CON0077

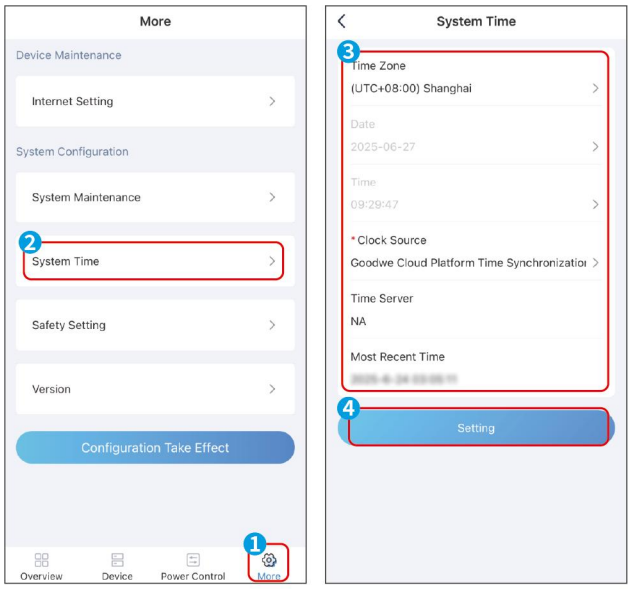
No.	Parameters	Description
1	Reset Logger	Perform a system reset, and the EzLogger will automatically shut down and restart.
2	Restoring Factory Defaults	● Restore Factory Setting: clear device access information, third-party information, login password. ● Communication Configuration(optional): restore network settings. ● Data Collection(optional): clear logs, historical alarms, historical data.

9.6.2. Setting System Time

NOTICE
Modifying the date and time will affect the integrity of the system's power generation and performance data records. Refrain from changing the time zone and system time arbitrarily.

Step 1: Tap “More”> “System Time”.

Step 2: Select the “Clock Source” and set the time based on actual needs.



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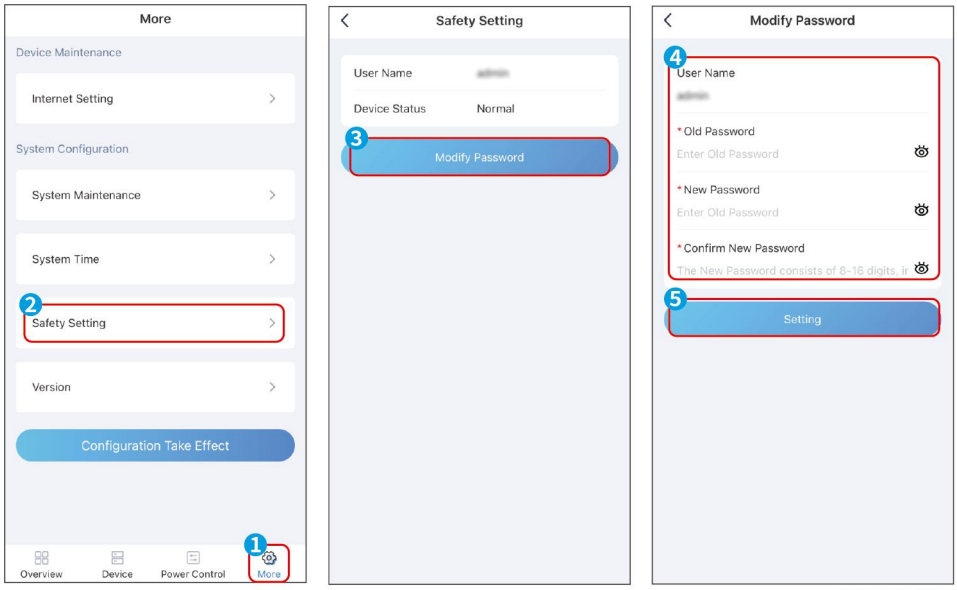
No.	Parameters	Description
1	Time Zone	The parameters can be modified when Manual Synchronization is selected as Clock Source.
2	Date	
3	Time	
4	Clock Source	Set the clock source. Supported: NTP, Modbus-TCP, Manual Synchronization, Goodwe Cloud Platform Time Synchronization.

9.6.3. Change the WiFi Password

Step 1: Tap “More” > “Safety Setting”.

Step 2: Tap “Modify Password”, input the old password and new password, and tap “Submit”.



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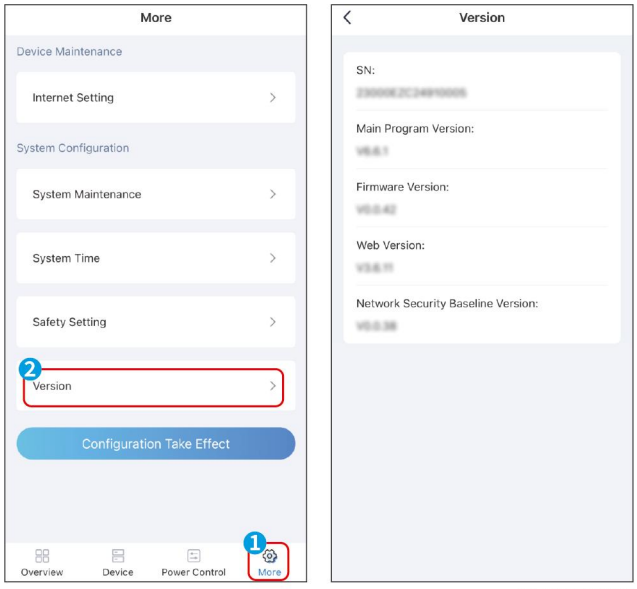
9.6.4. Check EzLogger Version

Step 1: Tap “More” > “Version” to view the current versions of the EzLogger.



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9.7. Troubleshooting

Perform troubleshooting according to the following methods. Contact the after-sales service if these methods do not work.

Collect the information below before contacting the after-sales service, so that the problems can be solved quickly.

1. Product information like serial number, software version, installation date, fault time, fault frequency, etc.
2. Installation environment, including weather conditions, whether the PV modules are sheltered or shadowed, etc. It is recommended to provide some photos and videos to assist in analyzing the problem.
3. Utility grid situation.

No.	Fault	Cause	Solutions/measures to address the issue
1	The EzLogger is not able to be powered on.	• Cable of the power adapter is improperly connected to the EzLogger. • The power adapter is improperly connected to the socket. • Power adapter malfunction. • Equipment malfunction.	• Check whether the power adapter is properly connected to the EzLogger. • Check whether the power adapter is properly connected to the socket. • Replace the power adapter. • Contact your distributor or after-sales service center.
2	Fail to log into the web over LAN.	• The operating system or browser version is lower than required. • The network cable is connected to an incorrect port. • Incorrect IP address. • Incorrect web login address. • Browser exception. • Equipment malfunction.	• Recommended operating system: Windows 7 or later. Recommended browser: Chrome52, Firefox58, or later version. • Check whether the network cable is connected to ETH2 port of the EzLogger when loging using the default IP. • Check whether the IP address of the EzLogger and the PC are on the same network segment. • Enter https://172.18.0.12:443 in the address bar of the web. • Clear browser history data or cache. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart cycles, contact your distributor or after-sales service center.
3	Fail to log into the web over WiFi.	• The operating system or browser version is lower than required. • The WiFi signal is too weak. • Incorrect web login address. • Browser exception.	• Recommended operating system: Windows 7 or later. Recommended browser: Chrome52, Firefox58, or later version. • If there is no obstacles, the recommended distance

		• Equipment malfunction.	between the PC or mobile phone and the EzLogger is 15m. Check if the distance is too far. • Enter https://172.18.0.12:443 in the address bar of the web. • Clear browser history data or cache. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart cycles, contact your distributor or after-sales service center.
4	Fail to connect to the WiFi hotspot of the EzLogger.	• The WiFi hotspot of the EzLogger is disabled. • The WiFi antenna is not installed or installed in an improper way. • The distance between the EzLogger and the PC exceeds the allowed WiFi communication distance. • Equipment failure	• Log into the web over LAN to enable WiFi hotspot and reconnect to the WiFi hotspot. • Check whether the included WiFi antenna is installed properly. • If there is no obstacles, the recommended distance between the PC or mobile phone and the EzLogger is 15m. Check if the distance is too far. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart cycles, contact your distributor or after-sales service center.
5	Cannot search the devices automatically.	• Automatic search applies only to the first networking. • The inverter is powered off. • The RS485 cables are connected in a wrong way, like reverse connection, missing connection, loose connection. • Equipment failure	• Add devices through Device Access if more devices are required. • Check whether the inverter is powered on. • Check whether the RS485 cables are connected properly. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart

			cycles, contact your distributor or after-sales service center.
6	The data cannot be uploaded to the server over LAN.	• The router or Ethernet switch connected to the EzLogger cannot access the Internet. • Incorrect parameters, like Acquisition Method, IP Address, etc.. • Equipment malfunction. • The router is equipped with a firewall.	• Check the working status of the router or the Ethernet switch. • Check the network parameters. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart cycles, contact your distributor or after-sales service center.
7	The data cannot be uploaded to the server over 4G.	• The 4G antenna is not installed or installed in an improper way. • The SIM card is improperly inserted or has no data for Internet. • 4G is disabled. • The network cable between the EzLogger and the router is connected. • Equipment malfunction.	• Check whether the included 4G antenna is installed properly. • Check whether the SIM card is intact and has enough data. • Enable 4G on the web page. • Disconnect the network cable between the EzLogger and the router. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart cycles, contact your distributor or after-sales service center.
8	Cannot upgrade the EzLogger via USB flash drive.	• Incorrect USB format. • The upgrade package is not stored in the specific directory. • Equipment malfunction.	• Check whether the USB flash drive is an FAT32 USB. • Create a new folder named collector in the root directory of the USB flash drive. • Put the upgrade folder into the collector folder. • Contact your distributor or after-sales service center.
9	Cannot upgrade the inverter via web.	• The inverter does not support remote upgrade. • Incorrect or damaged upgrade package. • The upgrade package does not match the inverter	• Check whether the inverter supports remote upgrade. • Contact your distributor or after-sales service center for correct upgrade package.

		version. • Improper connection of RS485 communication cables. • Equipment malfunction.	• Check whether the RS485 cables are properly connected. • Contact your distributor or after-sales service center.
10	Power limit exception	• The RS485 cables between the EzLogger and the inverter or smart meter are improperly connected. • The power limit function is disabled or enabled but not take effect. • The inverter does not support power limit. • Equipment malfunction.	• Check whether the RS485 cables are properly connected. • Check whether the power limit function is enabled on web page. • Contact your distributor or aftersales service center to check whether the inverter supports power limit.
11	Remote shutdown or OVGR&RPR fails.	• The RS485 cables between the EzLogger and the inverter are improperly connected. • The remote shutdown device or OVGR&RPR is connected improperly. • Incorrect web configuration. • Equipment malfunction.	• Check whether the RS485 cables are properly connected. • Check whether the external protective device is connected properly. • Check whether the parameters are correct. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart cycles, contact your distributor or after-sales service center.
12	DRED/RCR fails.	• The RS485 cables between the EzLogger and the inverter are improperly connected. • The DRED or RCR is connected improperly. • DRED/RCR is disabled. • Equipment malfunction.	• Check whether the RS485 cables are properly connected. • Check whether the external protective device is connected properly. • Enable DRED/RCR on the web page. • Power cycle the device and wait for two minutes before logging in again. If you are still unable to log in after three subsequent restart cycles, contact your distributor or after-sales service center.
13	The EzLogger fails forwarding	• Communication between the EzLogger and management platform fails.	• Check whether the network between the EzLogger and the management platform

	parameters over IEC104, Modbus-TCP, IEEE2030.5, FTP, or Email.	• Incorrect forwarding settings. • Equipment malfunction. • The inverter does not support third party forwarding.	is normal. • Check whether the third party parameters are correct. • Contact your distributor or after-sales service center. • Upgrade the ARM version of the inverter, or delete the inverter from the array.
14	The terminal address cannot be set after searching the device	The inverter ARM version is too low.	Contact your distributor or after-sales service center.

10. Technical Parameters

Model	**EzLogger3000C**
Device Management	
Max. Number of Connected Devices	100
Electrical	
Power Adapter	AC Input：100~240V, 50/60Hz DC Output：24V
DC Power Supply (V)	24
Power Consumption (W)	<15
Communication Interface	
LAN	2
RS485	COM×4
WIFI（for local maintenance）	IEEE 802.11 b/g/n @2.4 GHz
4G	Optional
Digital/Analog Input/Output	DI×4, DO×2, AI×4
PT100/PT1000	PT100×1, PT1000×1
DC Output Power	12V, 100mA

Communication Protocol	
Ethernet	Modbus-TCP, IEC 60870-5-104
RS485	Modbus-RTU
User Interface	
LED	LED×4
WEB	Embedded Web
USB	USB 2.0 x 1
Mechanical	
Dimensions (W×H×D mm)	255*47.5*173
Weight (kg)	0.8
Installation Method	Wall Mounting, DIN Rail Mounting, Tabletop Mounting
Environment	
Operating Temperature Range (℃)	-30~+60
Storage Temperature Range (℃)	-40~+70
Relative Humidity	5~95%
Max. Operating Altitude (m)	5000
Ingress Protection Rating	IP20
Certification Compliance	
Certificate	CE-RED（EN18031）、RCM、Anatel、KC、MIC、VCCI、WPC、FCC、ISED

11. Appendix

11.1. FAQ

11.1.1. How To Configure Power Limit Parameters

Prerequisites:

- Refer to the user manual of the devices to install and power on the inverters, EzLoggers, and smart meters properly.
- Refer to section Log In to log in to the web.
- Ensure that the system networking is successful and all inverters are online.

Step 1 Click Device Maintenance > Device Access > Automatic Search > Networking Setting in the homepage of the web to add devices.

Step 2 (Optional) If the smart meter is a third part meter, go to the device access page and click Manually Add.

Step 3 (Optional) Select Device Type as Smart Meter and set the parameters based on actual information. Click Yes to complete the settings.

Step 4 Click Configuration Active and Take Effect to finish adding the inverter and smart meter.

Step 5 Click Device Maintenance > Power Control > Power Limit.

Step 6 Set the parameters based on actual needs as the interface promoted.

Refer to section Manage the Device if you have any questions about adding an inverter or a smart meter. Refer to section Setting Power Limit Parameters if you have any questions about setting power limit parameters.

11.1.2. How To Set IEC104 Parameters

Prerequisites:

- Refer to the user manual of the devices to install and power on the inverters, EzLoggers, and smart meters properly.
- Refer to section Log In to log in to the web.
- Ensure that the system networking is successful and all inverters are online.

Step 1 Click Device Maintenance > Internet Setting in the homepage of the web to set the network parameters.

Step 2 Click the LAN Configuration tab, set the Acquisition Method to STATIC, select Local Area Network,

and set the IP based on actual information.

Step 3 Click Device Maintenance > Third-Parties Setting > IEC104.

Step 4 Click Add Channel and set the channel parameters based on actual situation. Click Confirm to complete the settings.

Step 5 Click Configuration Active and Take Effect to finish configuring the third parties parameters.

Step 6 Commission the third-party platform according to actual demands to establish the connection between the EzLogger and the platform.

Refer to section Setting IEC104 Parameters if you have any questions about setting IEC104 parameters.

11.1.3. How To Set Modbus-TCP Parameters

Prerequisites:

- Refer to the user manual of the devices to install and power on the inverters, EzLoggers, and smart meters properly.
- Refer to section Log In to log in to the web.
- Ensure that the system networking is successful and all inverters are online.

Step 1 Click Device Maintenance > Internet Setting in the homepage of the web to set the network parameters.

Step 2 Click the LAN Configuration tab, set the Acquisition Method to STATIC, select Local Area Network,

and set the IP based on actual information.

Step 3 Click Device Maintenance > Third-Parties Setting > Modbus-TCP.

Step 4 Click Add Channel and set the channel parameters based on actual situation. Click Confirm to complete the settings.

Step 5 Click Configuration Active and Take Effect to finish configuring the third parties parameters.

Step 6 Commission the third-party platform according to actual demands to establish the connection between the EzLogger and the platform.

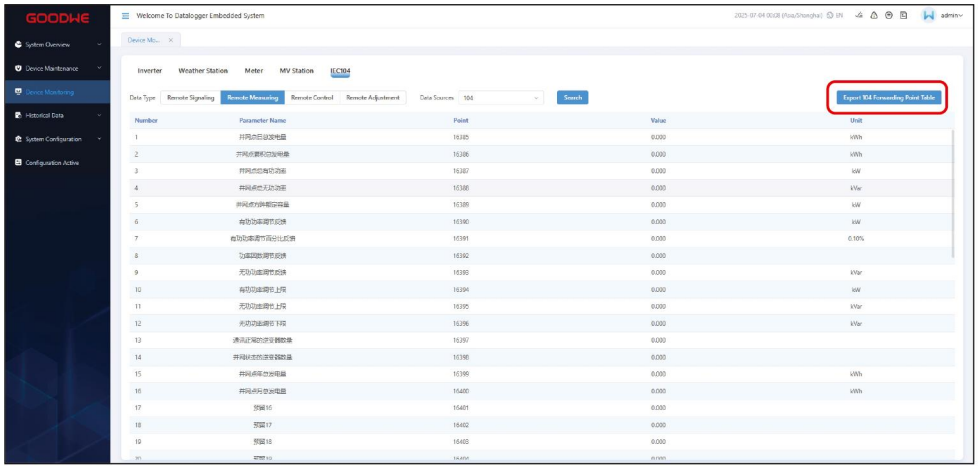
Refer to section Setting Modbus-TCP Parameters if you have any questions about setting Modbus-TCP parameters.

11.1.4. How to Export 104 Point Table

Step 1 Click Device Monitoring to enter the monitoring page.

Step 2 Click IEC104 > Export 104 Point Table.

Step 3 The exported 104 forwarding table is found in the browser download contents. The required data can be queried by searching for the inverter serial number.



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11.1.5. How To Add New Device After Automatic Searching

NOTICE
If a scenario other than the following occurs, it is recommended to reset the EzLogger or contact the after-sales service center.

- Scenario 1: Maintain existing devices and the configuration is not effected.
  - Web

    Step 1: Click Automatic Search > Networking Setting > Start Searching in the Device Access

    interface, and complete searching following prompts.
    Step 2: After searching for new devices, tick new devices and assign the address with one click or

    manually enter the terminal address according to the actual demand.
    Step 3: Complete configuration according to the interface prompts. Go to the Device Access page and check whether the networking information is complete and correct.

  - App

    Step 1 Tap Device > Networking Settings > Start Searching and complete searching following prompts.
    Step 2: After searching for new devices, tick new devices and assign the address with one click or

    manually enter the terminal address according to the actual demand.
    Step 3: Complete configuration according to the interface prompts. Go to the Device Access page and check whether the networking information is complete and correct.

- Scenario 2: Maintain existing devices and the configuration is effected.
  - Web

    Step 1: Click Automatic Search > Networking Setting > Re-networking in the Device Access

    interface, and complete searching following prompts. Log into the web and click Automatic

Search > Networking Setting > Start Searching in the Device Access interface. Complete searching following prompts.
Step 2: After searching for new devices, tick new devices and assign the address with one click or

manually enter the terminal address according to the actual demand.
Step 3: Complete configuration according to the interface prompts. Go to the Device Access page and check whether the networking information is complete and correct.

- App

Step 1: Tap Device > Networking Settings > Re-networking and complete searching following

prompts. Log into the App and tap Device > Networking Settings > Start Searching. Complete searching following prompts.
Step 2: After searching for new devices, tick new devices and assign the address with one click or

manually enter the terminal address according to the actual demand.
Step 3: Complete configuration according to the interface prompts. Go to the Device Access page and check whether the networking information is complete and correct.

- Scenario 3: Modify existing devices and the configuration is not effected.

  - Web

  Step 1: Click Automatic Search > Delete History in the device access interface.
  Step 2: Wait for 10mins or restart the inverters. Click Automatic Search > Network Setting > Start Searching and complete searching following prompts.
  Step 3: Complete configuration according to the interface prompts. Go to the Device Access page and check whether the networking information is complete and correct.

  - App

  Step 1: Tap Device > Networking Settings > Delete History.
  Step 2 Wait for 10mins or restart the inverters. Tap Device > Networking Settings >Start Searching and complete searching following prompts. Step 3: Complete configuration according to the interface prompts. Go to the Device Access page and check whether the networking information is complete and correct.

- Scenario 4: Modify existing devices and the configuration is effected.

  - Web

  Step 1: Click Automatic Search > Networking Setting > Re-networking in the Device Access

  interface. Log into the web and click Automatic Search > Networking Setting > Start Searching in the Device Access interface. Complete searching following prompts.
  Step 2: After searching for new devices, tick new devices and assign the address with one click or

  manually enter the terminal address according to the actual demand.

Step 3: Complete configuration according to the interface prompts. Go to the Device Access page and check whether the networking information is complete and correct.

■ App

Step 1: Tap Device > Networking Settings > Re-networking. Log into the App and tap Device > Networking Settings > Start Searching. Complete searching following prompts.
Step 2: After searching for new devices, tick new devices and assign the address with one click or

manually enter the terminal address according to the actual demand.
Step 3: Complete configuration according to the interface prompts. Check whether the networking information is complete and correct.

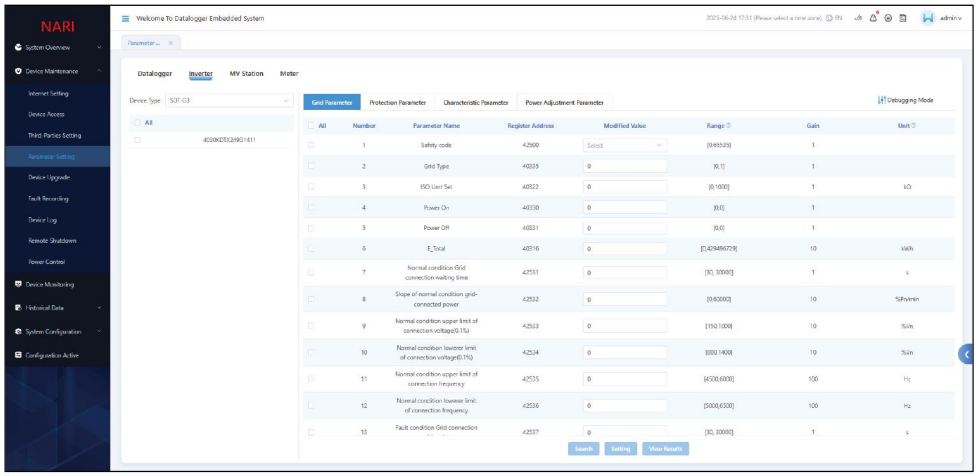
11.1.6. How To Start or Shut down Inverters in Batch

Prerequisites:

- Refer to the user manual of the devices to install and power on the inverters, EzLoggers, and smart meters properly.
- Refer to section Log In to log in to the web.
- Ensure that the system networking is successful and all inverters are online.

Step 1 Click Device Maintenance > Parameter Setting > Inverter in the homepage of the web to set the network parameters.

Step 2 Select the inverter type in Device Type, and tick the corresponding inverter based on SN.
Step 3 Tick Start or Shut down, and set the modified value as 1.
Step 4 Tick Setting and wait a few moments to view the modified result.
Step 5 Go to the home page and check the operation status of the inverter.



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11.1.7. How To Set or Export Fault Recording

- Manual Fault Recording

Step 1: Click Device Maintenance > Fault Recording.

Step 2: Tick devices to be recorded.

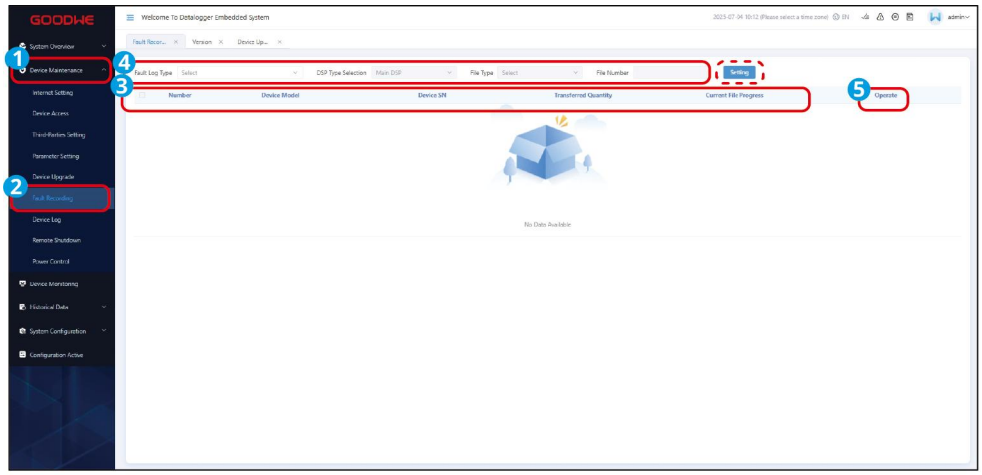
Step 3: Set the parameters related to manual fault recording.

Step 4: Click Export to export the fault logs.

- Auto Fault Recording

Step 1: Enable automatic fault recording.

Step 2: Click Export to export the fault logs.



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12. Term Explanation

- Overvoltage category definition

Category I: Applies to equipment connected to a circuit where measures have been taken to reduce transient overvoltage to a low level.

Category II: Applies to equipment not permanently connected to the installation. Examples are appliances, portables tools and other plug-connected equipment.

Category III: Applies to a fixed equipment downstream, including the main distribution board. Examples are switchgear and other equipment in an industrial installation.

Category IV: Applies to equipment permanently connected at the origin of an installation (upstream of the main distribution board). Examples are electricity meters, primary over-current protection equipment and other equipment connected directly to outdoor open lines.

- Moisture location category definition

Parameters	Level		
	3K3	4K2	4K4H
Moisture	0~+40℃	-33~+40℃	-33~+40℃

Parameters			
Temperatur e Range	5% - 85%	15% - 100%	4% - 100%

- Environment category definition

Outdoor: Ambient Temperature: -25~+60℃, applied to Pollution Degree 3 environment.

Indoor Unconditioned: Ambient Temperature: -25~+40℃, applied to Pollution Degree 3 environment.

Indoor conditioned: Ambient Temperature: 0~+40℃, applied to Pollution Degree 2 environment.

- Pollution degree definition

Pollution Degree I:No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.

Pollution Degree II: Normally only non-conductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected.

Pollution Degree III: Conductive pollution occurs, or dry. non-conductive pollution occurs, which becomes conductive due to condensation, which is expected.

Pollution Degree IV: Persistent conductive pollution occurs, for example, the pollution caused by conductive dust, rain or snow.

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