User Manual

EzLogger GPRS

Ver 00

Table of Contents

1、Symbols

	Caution! - Failure to observe a warning indicated in this manual may result injury.
	Product should not be disposed as household waste.
	This side up; the package must always be transported, handled and stored in such a way that the arrows always point upwards.
	Components of the product can be recycled.
	Fragile; the package/product should be handled carefully and never be tipped over or slung.
	Keep dry; the package/product must be protected from excessive humidity and must be stored under cover.
	CE Mark

2、Safety

The EzLogger GPRS of Jiangsu GoodWe Power Supply Technology Co. Ltd. (hereinafter referred to as GoodWe) strictly conforms to related safety rules in design and test. Safety regulations relevant to the location shall be followed during installation, commissioning, operation and maintenance. Improper operation may cause serious injury, electric shock and/or damage to equipment and property.

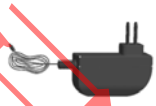
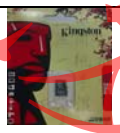
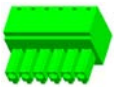
- Ensure children are kept away from EzLogger GPRS.
- Do not open the front cover of the EzLogger GPRS. Apart from performing work at the wiring terminal (as instructed in this manual), touching or changing components without authorization may cause injury to people, damage to EzLogger GPRS and annulment of the warranty.
- Static electricity may damage electronic components. Appropriate methods must be adopted to prevent such damage to the EzLogger GPRS; otherwise the EzLogger GPRS may be damaged and the warranty annulled.

3、Installation

3.1 Unpacking

When you receive the GoodWe EzLogger GPRS, please check for external damage to the EzLogger GPRS and any accessories. Please also check that the following are included:

EzLogger GPRS. 1
Power Adapter. 1
Micro SD Card 1
Fixing Bracket. 2
Screw M3*8 4
Mini USB Cable. 1
Antennae. 1
User Manual 1
Warranty Card 1
Flash Disk. 1
Connector.. 1

 EzLogger GPRS	 Power Adapter	 Fixing Bracket	 Screw M3*8
 Mini USB Cable	 Micro SD Card	 User Manual	 Warranty Card
 Flash Disk	 Connector	 Antennae	

3.2 Appearance and Size

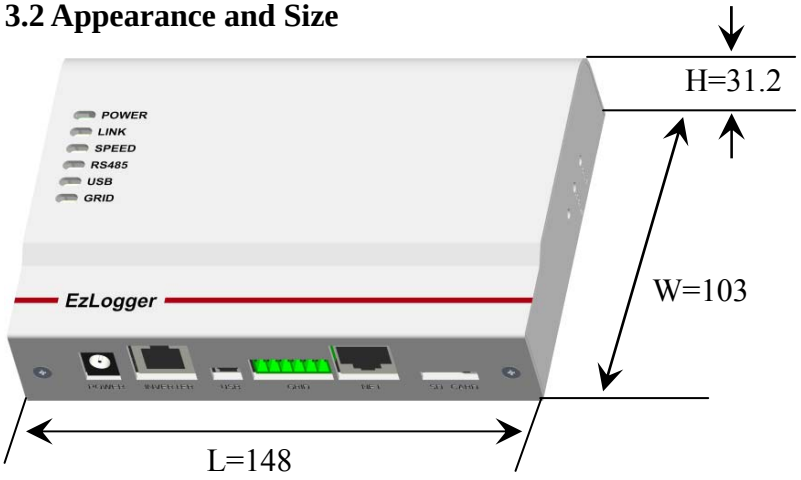


Figure 3.2.1

3.3 Equipment Installation

3.3.1 Selecting the installation position

The following must be considered when selecting the best location for an EzLogger GPRS:

- Indoor use only.
- The mount and installation method must be suitable for the EzLogger GPRS's weight and dimensions.
- The location must be well ventilated and sheltered from direct sunlight.

3.3.2 Mounting Procedure

Screw on the antennae at first:

Figure 3.3.2-1

Step 1 : Assemble EzLogger and Fixing Bracket as shown in the Graph 3.3.2-1, and tighten them by Screws M3*8 in the accessory bag.

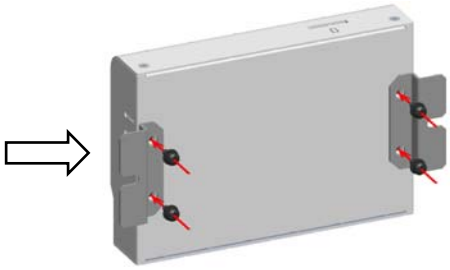


Figure 3.3.2-2

Step 2 : Tighten EzLogger by Screws φ4*12. Installation dimensions are shown in the Graph 3.3.2-2.

Figure 3.3.2-3

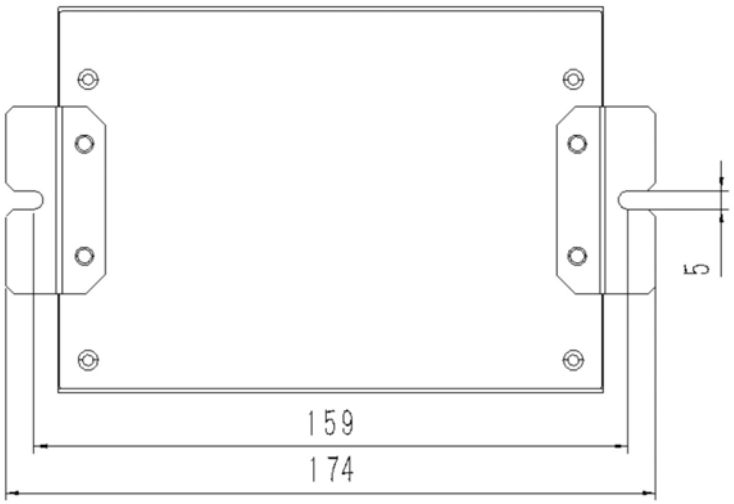


Figure 3.3.2-4

Size of installation plate EzLogger GPRS

3.4 Electrical Connection

3.4.1 Interface Instruction

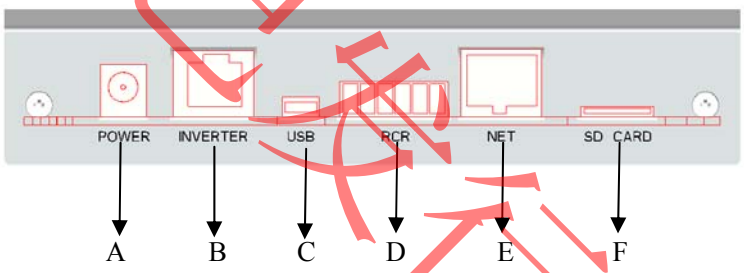


Figure 3.4.1

Figure 3.4.2

A	Adapter Socket
B	RS485 RJ45 Socket (connects to inverter)
C	USB port Socket
D	6pin Terminal Socket, Refer to Table 3.3
E	LAN RJ45 Socket (connects to network)
F	Micro SD Card Socket
G	SIM Card Socket

Table 3.4.1

Notice: Unpack the micro SD card and insert it to the socket (F), Insert the SIM card to the socket (G).

Figure 3.4.3

3.4.2 Make Up The Cable Daisy Chain Connection

Step1: First of all, make up cables

NOTICE: In order to implement waterproof, the cables should be made up by hand strictly obey the guidance in manual of inverter.

The line sequence of both plugs of RS485 cable should be made up **same** as shown in Fig3.4.2.1.

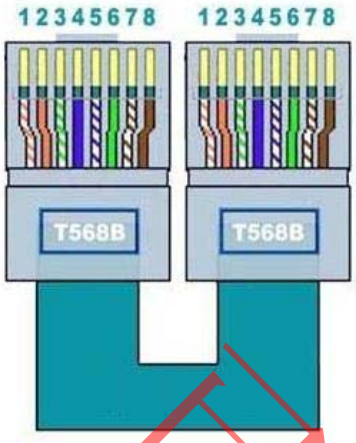


Fig3.4.2.1 Line sequence

The line sequence in both RJ45 plugs should obey TIA/EIA-568B criterion strictly, from 1 to 8 as below:

Line	Color	Line	Color
1	Orange & White	5	Blue & White
2	Orange	6	Green
3	Green & White	7	Brown & White
4	Blue	8	Brown

Besides that, each cable should be tested by LAN cable tester to ensure the cable is OK. These cables will be used to connect not only EzLogger and inverter but also inverter and inverter.

Step2: Check the cable daisy chain

The whole system should be made up as shown in below Fig3.4.2.2, in which the laptop is only used for debug.

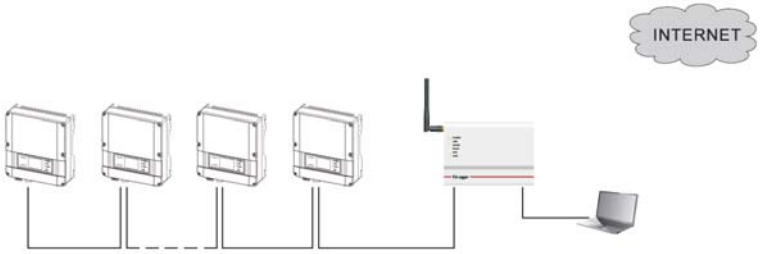


Fig3.4.2.2. Whole system connection diagram

Before complete the whole connection, it should be tested as below:

Test the connection from plug 1a to plug (N+1)b as shown in Fig3.4.2.3. If everything is ok, the LAN cable tester will tell the line 3/6/7/8 is OK. **Neglect the status of line 1/2/4/5** because the line1 is shorted to line2 and line4 is shorted to line5 in inverter.

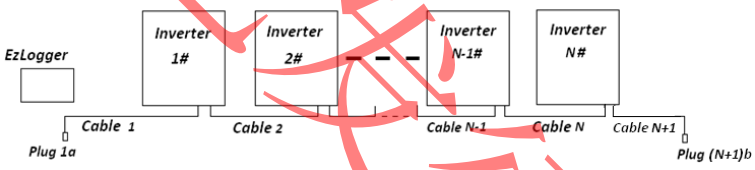


Fig3.4.2.3. Check the whole RS485 cable connection

If the line 3/6/7/8 is not ok, please pull out the plug Nb from inverter N#, and test the connection from plug1a to plug Nb, as

shown in Fig3.4.2.4.

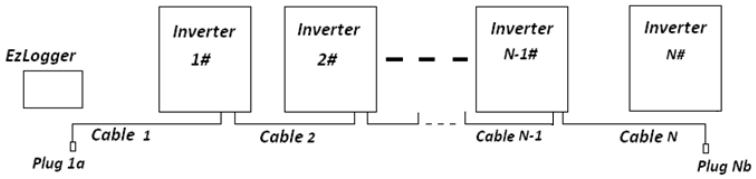


Fig3.4.2.4. Check the connection between 1a and Nb

If the test result is ok, it means there is something wrong with inverter N#. First re-check cable N+1 using LAN cable tester and make sure it is OK and insert the plug back into inverter N#. Then insert plug Nb into inverter N#, and pull out plug Na from inverter (N-1)# as shown in Fig3.4.2.5. Check and make sure the connection of plugs and sockets is firmly good. Then test the connection between plug Na and plug (N+1)b. If the connection is OK, insert plug Na into inverter (N-1)#. Then re-test connection from plug 1a to plug (N+1)b and the result will pass.

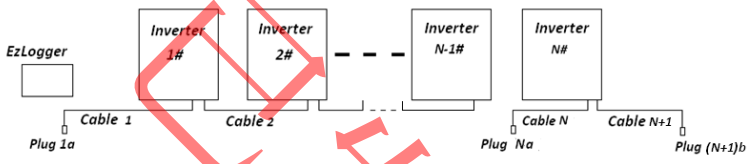


Fig3.4.2.5. Check the connection between Na and (N+1)b

Repeat steps above can find the bug and then fix it one by one until the whole daisy chain connection is ok.

At last pull out cable N+1 from inverter N# and fasten the cover and then insert plug1a to EzLogger.

3.4.3 Configure EzLogger GPRS

A laptop with Ethernet is essential for EzLogger GPRS configuration.

Step1. Insert SIM card into the socket on the top frame.

Step2. Power the EzLogger GPRS on with power adapter

Step3. Using a CAT5 LAN cable connect the laptop with EzLogger GPRS directly. Modify the IP address of the laptop to 192.168.1.100 following steps below.

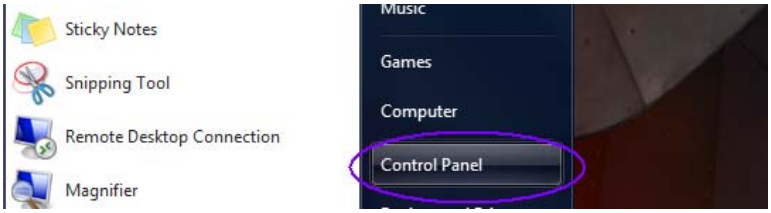


Fig3.4.3.1. Click Start, and click 'Control Panel'

You will get:

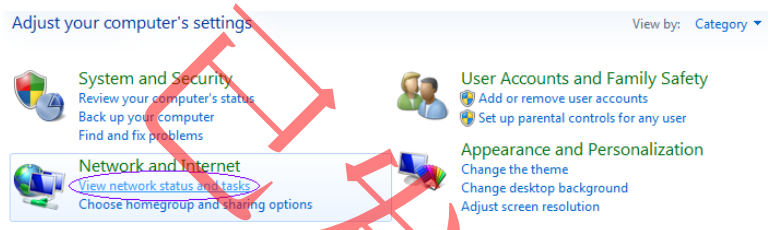


Fig3.4.3.2. Click 'View network status and tasks'

You will get:

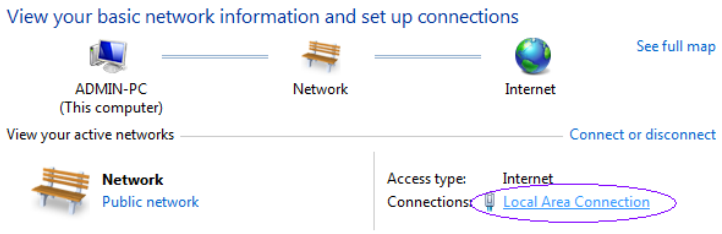


Fig3.4.3.3. Click ‘Local Area Connection’

You will get:

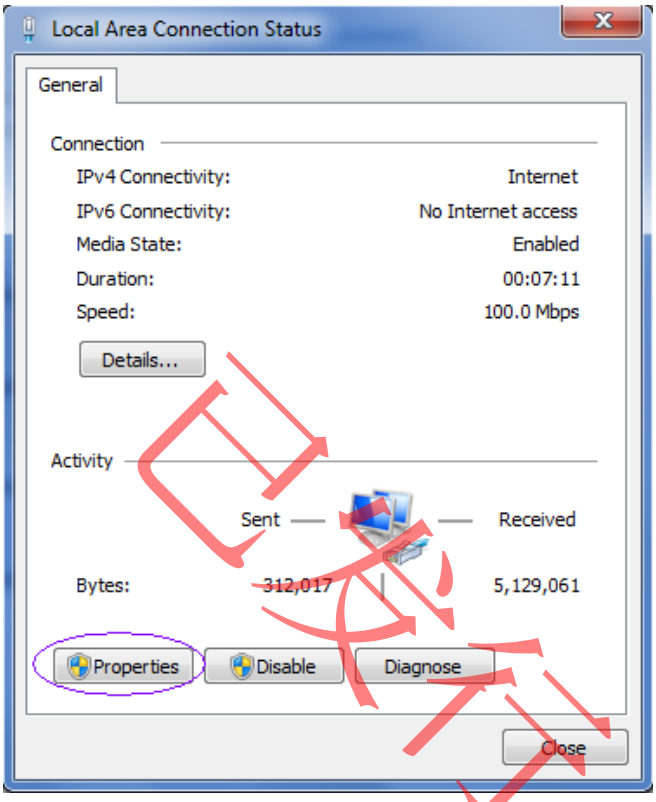


Fig3.4.3.4. click ‘Properties’ button

You will get:

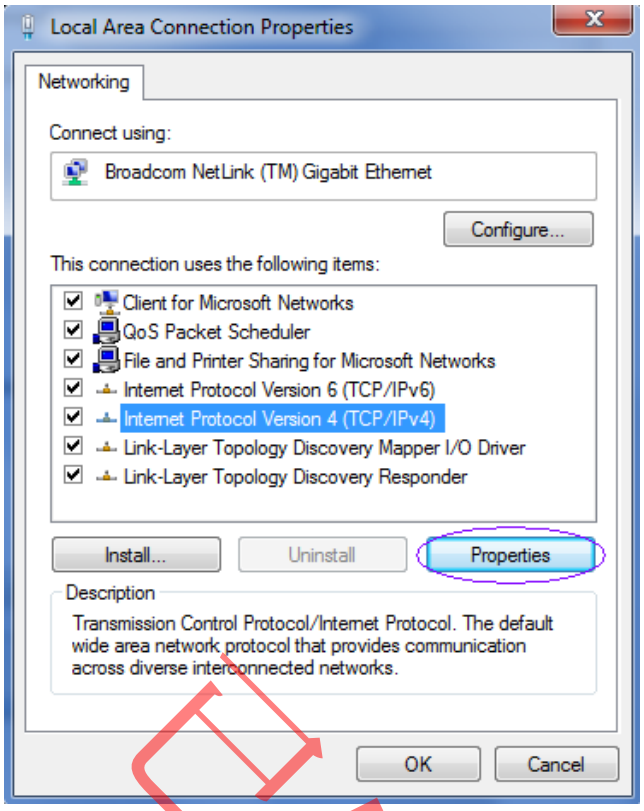


Fig3.4.3.5. Choose ‘Internet Protocol’ and click ‘Properties’

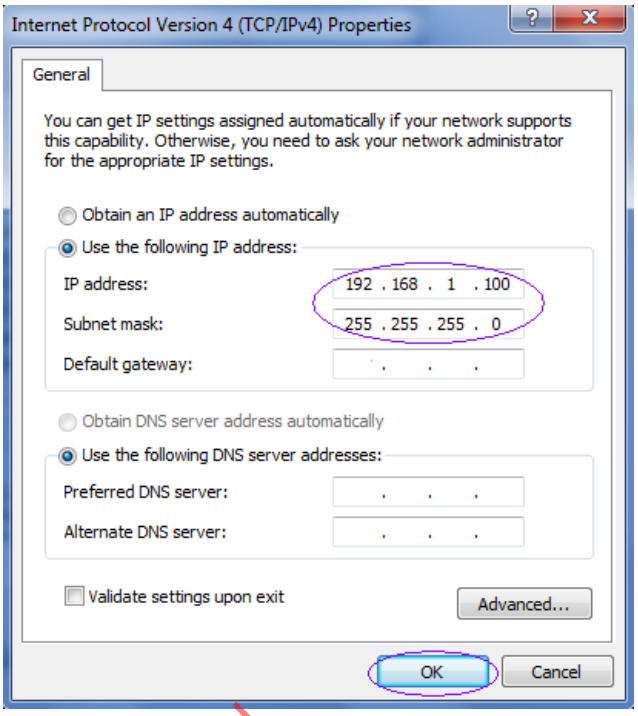
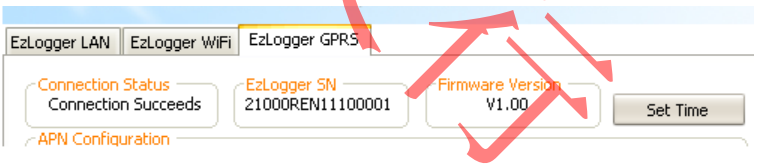


Fig3.4.3.6. Choose 'Use the following IP address' and key the digital in purple circle as above and click 'OK' button

Step4. Run EzConfig.exe that is stored in the flash disk.

If the 'Connection Status' is 'Connect Fail', please check the IP address of your laptop is 192.168.1.100 or not.



Step4.1 Time Configuration

Once EzConfig.exe connects with EzLogger successfully, it will set the system time of the laptop to EzLogger automatically. If there is time difference from local time, you can click 'Set Time' button to set time.

Step4.2 APN Configuration:

APN is the brief of Access Point Name of GPRS. This parameter is used for EzLogger to access internet. Please confirm details of APN with the operator including username and password.

Then type the parameter (APN, Username, Password, which you get from the operator) and click 'Set'.

After set APN, you can click Refresh button to check the signal intensity, and the communication status with GoodWe portal.

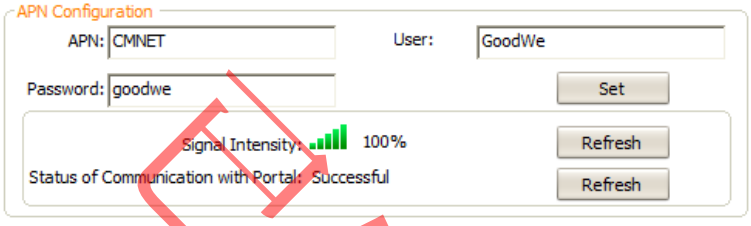


Fig3.4.3.7. APN Configuration

Step4.3 SMS Configuration

You need to set the SMS center number for SMS function, which you can get from the operator. After that you can input at most 5 mobile phone numbers which are willing to receive energy yield SMS from EzLogger GPRS and you can choose the frequency for sending. For each number, you can set it receives error message

SMS or not.

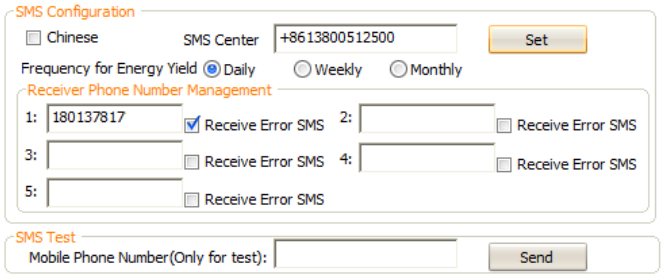


Fig3.4.2.8. SMS Configuration

You can input a phone number to test the SMS function. Click the 'Send' button you will receive a test SMS from EzLogger GPRS if the configuration is OK.

NOTE: The phone number for test will not be stored in EzLogger GPRS, it is only for test.

Step4.4 Inverter Information

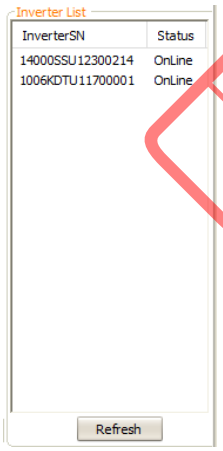


Fig3.4.3.9. Inverter List

After configurations, you can click 'Refresh' button to acquire the inverter list which are communicating with EzLogger GPRS well.

If all the inverters are online, then the installation and configuration procedure is completed here.

Step5. Disconnect EzLogger GPRS from the laptop.

3.4.4 Registration in GoodWe Web Portal

Set IP address of the laptop back to the original status. Browse *http://www.goodwe-power.com*, and click the "Register" button. Select "End User" as user type, and fill in the register table and the registration is completed.

3.4.5 Create PV Station in GoodWe Web Portal

Fill in the table of the "New Station" web page according to the actual location of your station. In the "Maintain EzLogger" column, enter the information of the EzLogger GPRS including S/N and Check Code, and click "Add" button. Then enter the information of the inverter that is connected with the EzLogger GPRS including S/N, Check Code, Type and Description, and click "Add" button.

If you have several inverters connected with EzLogger GPRS, you need to enter their information one by one.

Click "Create Station" after you fill in all the information needed, and then everything is OK now. Then switch on the inverters and several minutes later you can view the data of inverter in web

portal.

NOTICE: you can find S/N and Check Code on the back side of EzLogger GPRS and right side of inverter.

NOTICE: ONLY THE DATA FROM INVERTER WHOSE INFORMATION ENTERED CORRECTLY IN THE WEBSITE CAN BE VIEWED.

4、Indicator Lights

There are 6 indicator lights on left side of the front cover of EzLogger GPRS.

Label	Light On	Light Off	Colour
POWER	Powered on	Powered off	Green
SPEED	Joined to GPRS network	Disconnected from GPRS network	Yellow
RCR	Received command from RCR	No command from RCR	Yellow

Table 4-1

Label	Flickering	Light Off	Colour
LINK	Communicates with GoodWe Portal	Data Interval	Yellow
RS485	Communicates with Inverter	Data Interval	Yellow
USB	File Transmission to PC	No File Transmission	Yellow

Table 4-2

5、Operation with ripple control receiver

The EzLogger GPRS can be connected with ripple control receiver (RCR for short) and executes the command from it.

5.1 Connection with RCR

Pick up the 6-pin terminal plug like below:

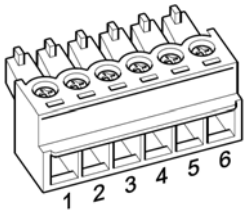


Figure 5.1-1

Pin	Allocation	Description
1	D.IN.1	Level 1(60%)
2	D.IN.2	Level 2(30%)
3	D.IN.3	Level 3(0%)
4	D.IN.4	0.95 Lagging
5	D.IN.5	0.90 Lagging
6	GND	

Table 5.1

Fabricating the cable using the terminal plug and connects with RCR according the description and the type of RCR. Below is a sample:

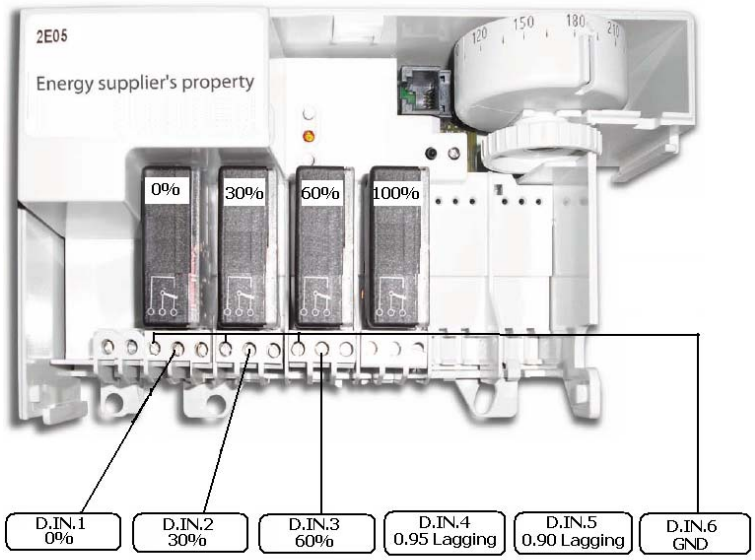


Figure 5.1-2

5.2 Operation with RCR

Just keep the connection between EzLogger GPRS and RCR stable, and both powered on. Then you need not do anything else. The EzLogger GPRS will execute the command from RCR automatically.

6、Reset and Reload EzLogger GPRS

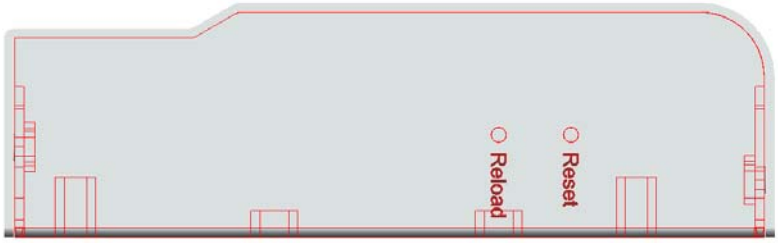


Figure 6

There are two buttons in the right side of EzLogger GPRS.

One is the Reset button, press this button to restart the EzLogger GPRS.

The reload button is used to reload the default configuration of EzLogger GPRS. Press this button longer than 3 seconds to the change the EzLogger GPRS to default configuration.

Notice: All configurations have to be set once again after using reload function.

7、Technical Parameters

7.1 Operation Conditions

EzLogger GPRS can be installed indoor only; it will cause damage if it runs out of range of following conditions:

Input Voltage	9V DC
Input Current	500m A
Power Consumption	3 W
Operating Temperature Range	-20～60°C
Humidity Range	0% - 95%

Table 7.1

7.2 Operation Limitation

Communication Interface	Communication Mode	Distance Limitation
RS485	RJ45	MAX. 800 m Cable, MAX 20 inverters
USB Port	MiniUSB_B	MAX. 2 m Cable

Table 7.2

7.3 Data Storage

The data of inverter is storage as csv format files in micro SD card. Its capacity is 2GB which is only available for data of 20 inverters not longer than 3 years. When the space is using up, the oldest data files will be deleted. And you can download the csv file via a micro SD card reader or the USB cable.

8、Certificates

Figure 8

9、Warranty

9.1 Warranty Period

GoodWe provides a standard warranty of 2 years for EzLogger GPRS. Additional provision will be subject to contract.

9.2 Warranty Card

The warranty card and purchase invoice should be properly kept for the product warranty period. Meanwhile, the nameplate on products shall be kept clearly visible. Otherwise GoodWe may reject warranty service or only provide paid service.

9.3 Warranty Conditions

According to the GoodWe product description and instructions, if a device becomes defective within the warranty period, and it is proved that further functional performance is impossible due to a problem with product quality, the device will be, as decided by GoodWe:

A Returned to the factory for maintenance; or

B Repaired onsite; or

C Replaced (If the original model is no longer produced, GoodWe will provide a replacement device of equivalent value according to model and age.)

9.4 Scope of Warranty

Warranty is not valid in the following situations:

- Products or fittings exceed warranty period (excluding any warranty extension agreement signed beforehand).
- Fault or damage is caused by improper operation or not following the user manual, product instructions, or relevant safety regulations.
- Insufficient ventilation of the unit.
- Fault or damage due to improper installation, repair, change or removal by persons who are not authorized by GoodWe.
- Fault or damage due to unpredictable accidental factors, human errors or force majeure.
- Fault or damage unrelated to product quality.

10、Contact

If you have any enquiries or technical problems concerning a GoodWe SS series inverter, please contact our customer services.

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E-mail: service@goodwe.com.cn

Website: www.goodwe.com.cn