



51.2V 100AH LIFEPO4 BATTERY EXTERNAL LCD TOUCH SCREEN MANUAL

Operation and Maintenance



(ECO-BM-JBD01)

SUPPORT

If you are experiencing technical problems and cannot find a solution in this manual, please contact ECO-WORTHY for further assistance. Call: +1 866-939-8222 (US&CA)

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·Web://www.eco-worthy.com/

·E-mail: customer.service@eco-worthy.com







Quick Guide

Compatible Batteries:

- 1.48V 100Ah Server Rack Battery V3
- 2.48V 50Ah Server Rack Battery
- 3.48V 100Ah Server Rack Battery V1/V2 (can be monitored via the V3 as the master device, firmware upgrade not necessary)

How to Connect:

Master Device: V3

Slave Device: Supports V1/V2/V3

Connect the RS485-2 port between the batteries, establish communication between the batteries and set the master and slave addresses, connect the RS232 port between the battery and the screen

Note: Due to DIP switch address limitations, V1/V2 are recommended for slave devices in address range 2–15.

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I. Introduction

This product is a 4.3-inch touch color display, specifically designed for the 51.2V 100AH sever rack battery series energy storage products. It provides intuitive display of battery pack sampling parameters, temperature, protocols, etc., and features simple operation and a user-friendly interface, supporting Chinese, English, and Ukrainian languages. It complies with the ROHS 2.0 standard.

1. Product Front and Back View Presentation





Front Back

2. Product Dimension



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3. BasicParameters

Product Model	ECO-BM-JBD01		
Dimension	139.5x97.5x21.3mm (±0.6mm)		
Screen Specification	4.3in,480*272p		
LCD Screen Color	65K(65536) 5R6G5B		
Backlight Mode	LED		
Baud Rate	9600		
Touch Screen Type	Capacitive inductive		
Communication Interface	RS232		
Rated Voltage	14V		
OperatingPower	<1W		
Standby Dissipation	<0.1W		
Operating Temperature	-20°°C~75°C		
Standby Dissipation	No Operation, Delay 30S(Adjustable)		
Wake-up Method	Touch Wake-up		

4. Pin Definition



5. Magnetic Strip Attachment Area

This area is designated for attaching the magnetic strip. Please place the magnetic strip securely and align it properly to ensure optimal.



II. Interface Features Overview

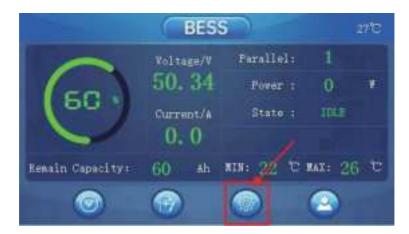
1. Main Page

The main interface primarily displays statistical information of the battery system, such as average SoC, highest and lowest cell voltages, highest and lowest cell temperatures, average battery voltage, and total system current, remaining capacity, operating power, charging and discharging Mos status, and other data.



2. Language Switching

This display supports switching among Chinese, English, and Ukrainian languages. On the main page, click the settings button (as shown in the figure) to enter the language settings interface and select the corresponding language option for setup.





3. View Pack Iinformation

Toview battery pack information on the display, click the bottom-left button (asshown in the figure) on the main page to enter the battery-pack selection page and select the corresponding battery pack to view (Note: Green indicates the slave unit is online, white indicatesitis offline, and only online slave units can be selected for viewing.)



Upon entering the slave unit page, as shown in the following figure: "PACK #O1" indicates this is the first battery pack. Charge MOs: The green indicatorlight is on, indicating charging. Discharge MOs: The green indicatorlight is on, indicating discharging. T1 to T4 represent the temperatures of four temperature sensors at different locations within the battery pack. "ENVT: 26°C" indicates the ambient temperature. "MOST: 24°C" indicates the temperature of The hottest battery module at 24°C. The last two lines are the cell temperatures, in millivolts.

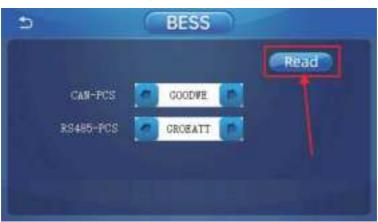


4. View Communication Protocol

Toview the communication protocol of the battery pack on the display, click the protocol button on the main page to switch to the battery communication protocol interface.



Click the "Read" button on the battery communication protocol interface to retrieve the currently used protocol.



III. Inverter-Related Settings

To modify the protocol and parameters, you need to log in to the system first. The steps are as follows:

Click the user button at the bottom right to enter the user login interface, enter the login password "111111", and after successful login, return to the main interface and click the protocol button.

If you are an experienced solar energy DIY enthusiast, you can try "666888" to unlock more functions.





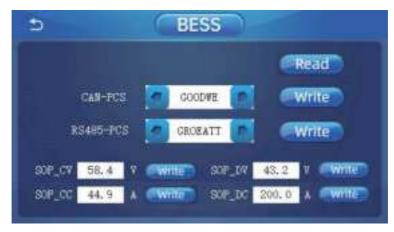
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Enter the protocol and parameter settings interface, where you can change the protocol and corresponding parameters according to your needs.



IV. Technical Support

1) Customer service email:



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2) Company address: USA/Germany



Address(US): 4411 East State Hwy D Suite C Springfield, Missouri 65809



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Note:

Customer Service Hours:

US: Mon-Fri 8:3AM - 6:00 PM(CST)

UK: Mon-Fri 9 AM - 5 PM(GMT)

DE: Mon-Fri 9 AM - 5 PM(CET)

4) Official website address:



Web: https://www.eco-worthy.com/

5) Official social media:



Facebook: https://www.facebook.com/ecoworthy.store/



Youtube: @ecoworthy



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