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› [DALY Smart BMS LiFePo4 24S 72V 200A Instruction Manual](#)

DALY 24S 72V 200A LiFePo4 Smart BMS

DALY Smart BMS LiFePo4 24S 72V 200A Instruction Manual

Model: 24S 72V 200A LiFePo4 Smart BMS

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DALY Smart BMS (Battery Management System) for LiFePo4 24S 72V 200A battery packs. This BMS is designed to protect and manage your lithium battery system, ensuring its safety and optimal performance. It features a programmable Bluetooth module for monitoring and parameter adjustments via a mobile application.

2. SAFETY INFORMATION

Always exercise caution when working with battery systems. Improper installation or handling can lead to serious injury or damage to equipment. Adhere to the following safety guidelines:

- Ensure all power sources are disconnected before installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Verify all wiring connections are correct and secure before applying power. Incorrect wiring can cause damage to the BMS and battery.
- Avoid short-circuiting battery terminals or BMS connections.
- Do not attempt to disassemble or modify the BMS.
- Install the BMS in a well-ventilated area, away from flammable materials.
- Consult a qualified professional if you are unsure about any installation or operation steps.

3. PRODUCT OVERVIEW

The DALY Smart BMS is a sophisticated battery management system designed for LiFePo4 24S 72V 200A battery packs. It integrates essential protection features and smart monitoring capabilities.

Key Features:

- **High Current Capability:** Supports up to 200A continuous discharge and 100A charge current.
- **Programmable Protections:** Over-charge, over-discharge, over-current, and temperature protection.
- **Voltage Balancing:** High detection precision for voltage balancing.

- **Low Temperature Charging Protection:** Prevents charging below -1°C.
- **Smart Monitoring:** Bluetooth module for real-time data monitoring and parameter settings via mobile app (iOS & Android).
- **Common Port Design:** Utilizes a single port for both charging and discharging.
- **Cooling Fan:** Integrated fan for thermal management during high current operations.
- **SOC Calculation:** Precise State of Charge (SOC) calculation with automatic learning function.

Components:

The package includes the DALY Smart BMS, balance wires, a Bluetooth module, a UART cable for PC connection, and an English version wiring manual.



Figure 3.1: Top view of the DALY Smart BMS with integrated cooling fan.



MONITOR REAL-TIME DATA

Monitor batteries information by connecting bluetooth with Mobilephone, It is convenient for customers to manage the batteries status in real time base and provide intelligent, efficient and safe circumstance.

SOC CURRENT VOLTAGE TEMP WAR NING ...



Figure 3.2: DALY Smart BMS showing the Bluetooth module connection and mobile app compatibility.

Fan specifications



Product: LifePO4 24S 200A common port with balance

Communications: UART

Discharge current: 200A

Over-discharge current: 300A±30A (Can be set)

Charge current: 100A (Can be set)

Overcharge current: 300A±30A (Can be set)

Overcharge voltage: 3.75V±0.05V (any string, Can be set)

Over-discharge voltage: 2.2V±0.1V (any string, Can be set)

Charge voltage: 87.6V (Can be set)

model: R32W

Size: 221*130 *32mm

Output wire: 6AWG

Balance wires: 24AWG/350mm

Optional: BT

Weight: ≈1884g

Figure 3.3: Overview of the 12 protection functions including over-charge, over-discharge, over-current, short-circuit, over-voltage, balance, NTC temperature, waterproof, moistureproof, fireproof, and dustproof features.



Figure 3.4: Exploded view detailing internal components such as the insulated flame-retardant shell, smart fan, pure aluminum heat sink, high current copper plate, BMS board, thermal conductive compound, and insulation fixing plate.

4. SETUP AND INSTALLATION

Careful wiring is crucial for the correct operation and safety of the BMS. Follow these steps precisely:

- 1. Prepare the Battery Pack:** Ensure your LiFePo4 24S 72V battery pack is assembled and individual cell voltages are balanced as much as possible before connecting the BMS.
- 2. Connect Balance Wires:**
 - First, connect the **black wire** of the balance harness to the **total negative pole (B-)** of your battery pack.
 - Then, connect the remaining balance wires (red wires) sequentially from B1 to B24 to the positive terminals of each cell in your battery pack. Ensure the order is correct.
 - Important:** Do not connect the balance harness to the BMS connection port yet.
- 3. Connect Main Power Wires:**
 - Connect the main negative wire from the battery pack's total negative terminal to the **B- terminal** on the BMS.
 - Connect the main negative wire for discharge/charge (common port) from the **P- terminal** on the BMS to your

load/charger negative terminal.

- The main positive wire from the battery pack's total positive terminal connects directly to your load/charger positive terminal, bypassing the BMS.

4. **Connect Balance Harness to BMS:** After all main power wires and balance wires are securely connected to the battery, plug the balance harness into the designated port on the BMS.
5. **Activate BMS:** Press the activation button on the BMS board, or charge the battery system to activate the BMS for the first use.
6. **Bluetooth Module Connection:** Insert the Bluetooth module into the UART port on the BMS.



Figure 4.1: Detailed wiring diagram for connecting the DALY Smart BMS to a 24S LiFePo4 battery pack, motor/load, and charger. Note the sequence of connections for safety.

Note: It is recommended to use appropriate tools for wiring, such as soldering machine (if applicable), scissors, double-sided tape, tin wire, and a multimeter for verification.

5. OPERATING INSTRUCTIONS

The DALY Smart BMS can be monitored and configured via a mobile application using its Bluetooth module or via a PC

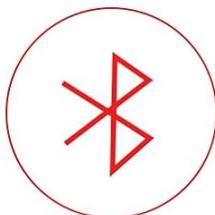
using the UART cable.

5.1 Mobile App (Bluetooth)

1. **Download App:** Search for "DALY BMS" or "Smart BMS" in your mobile app store (iOS or Android) and install the application.
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your mobile device.
3. **Connect to BMS:** Open the app. It should automatically detect nearby DALY BMS devices. Select your BMS from the list. The initial password to change parameters is **123456**.
4. **Monitor Data:** The app displays real-time data such as total voltage, individual cell voltages, charge/discharge current, temperature, and State of Charge (SOC).
5. **Adjust Parameters:** Access the "Parameter Settings" section to customize protection thresholds (e.g., over-charge voltage, over-discharge voltage, over-current limits, temperature limits).

12 PROTECTION FUNCTIONS

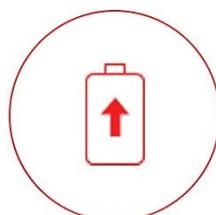
Our BMS has passed the authoritative safety inspection, all kinds of product qualifications are available, highly praised from all over the world



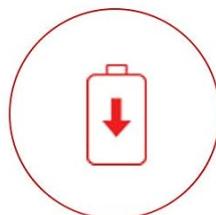
BT



Programmable



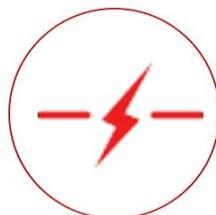
Over-charging protection



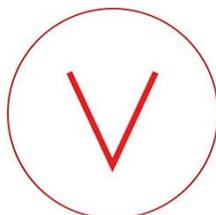
Over-discharging protection



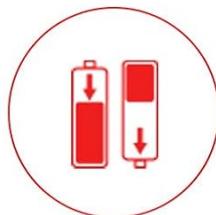
Over-current protection



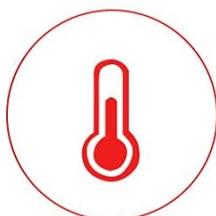
Short-circuit protection



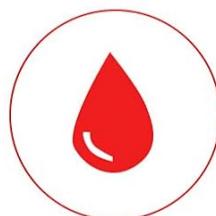
Over-voltage protection



Balance function



NTC temperature protection



Waterproof
Moistureproof



Fireproof



Dustproof

Figure 5.1: Screenshots of the DALY Smart BMS mobile application displaying real-time monitoring data and parameter adjustment options.

5.2 PC Software (UART)

For advanced monitoring and configuration, connect the BMS to a PC using the provided UART cable. Download the corresponding PC software from the DALY website. The software offers similar functionalities to the mobile app but with a larger interface for detailed analysis.

The serial number of the BMS and the protection parameters (Li-ion, LiFePo4) have default values. The capacity AH of the battery pack needs to be set according to the actual capacity. If the capacity AH is not set correctly, the percentage of remaining power will be inaccurate. Other parameters can also be set to your needs.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliability of your DALY Smart BMS and battery system:

- **Regular Monitoring:** Periodically check the BMS data via the mobile app to ensure all parameters are within normal operating ranges.
- **Keep Clean:** Ensure the BMS and its connections are free from dust, dirt, and moisture.
- **Ventilation:** Ensure adequate airflow around the BMS, especially around the cooling fan, to prevent overheating.
- **Connection Integrity:** Periodically inspect all wiring connections for tightness and signs of corrosion or damage.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates for the BMS to ensure optimal performance and access to new features.

7. TROUBLESHOOTING

If you encounter issues with your DALY Smart BMS, refer to the following common troubleshooting steps:

- **BMS Not Activating:**

- Ensure all balance wires are correctly connected and the main power connections are secure.
- Press the activation button on the BMS board.
- Connect a charger to the battery pack; charging typically activates the BMS.

- **Bluetooth Connection Issues:**

- Verify the Bluetooth module is correctly inserted into the UART port.
- Ensure Bluetooth is enabled on your mobile device and the app has necessary permissions.
- Restart the mobile app and try reconnecting.
- Ensure no other devices are actively connected to the BMS via Bluetooth.

- **Protection Triggered (e.g., Over-voltage, Under-voltage, Over-current):**

- Check the mobile app for specific fault codes or warnings.
- Verify individual cell voltages are within safe operating limits.
- Reduce the load or charging current if an over-current protection is triggered.
- Inspect battery temperatures if temperature protection is active.
- Review and adjust programmable parameters in the app if they are set too restrictively for your application.

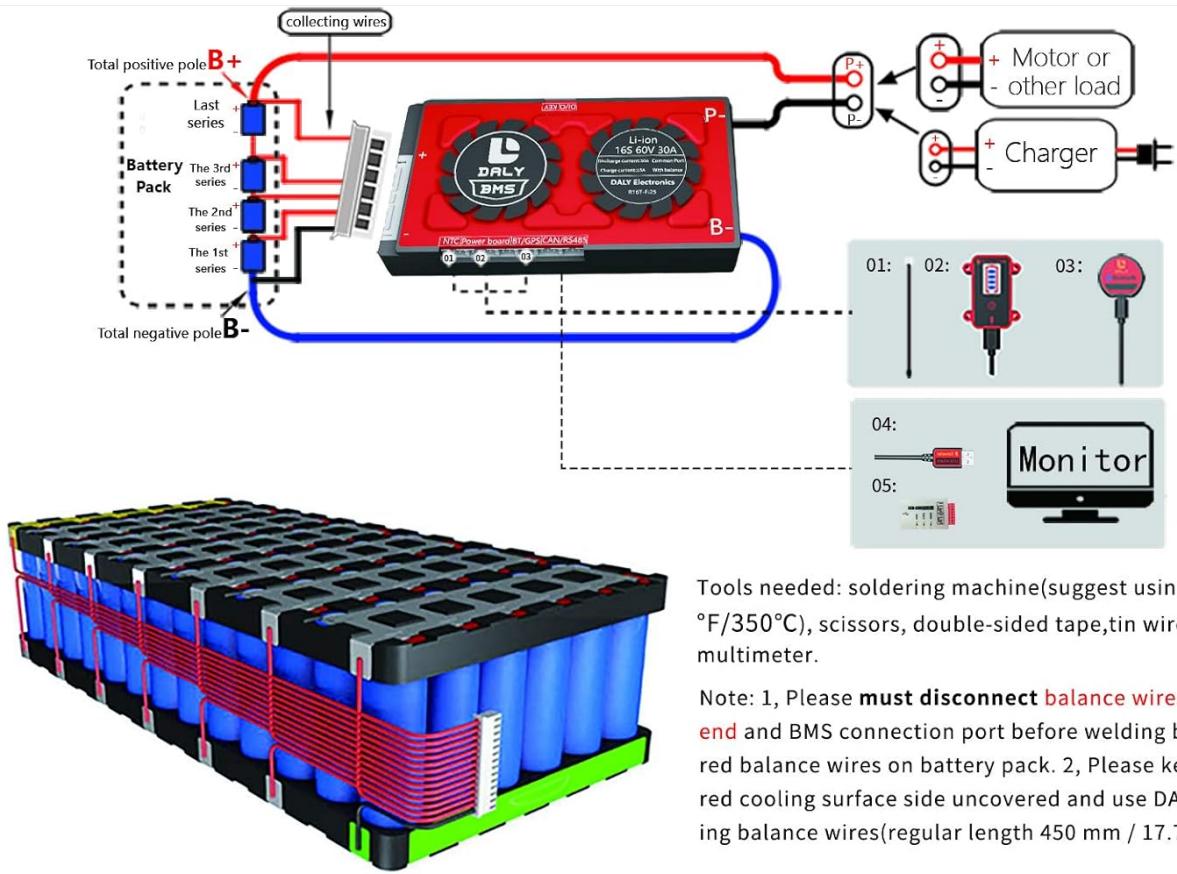
- **Inaccurate SOC Reading:**

- Ensure the battery pack's actual capacity (AH) is correctly set in the BMS parameters via the app.
- Allow the BMS to complete a few full charge/discharge cycles for its automatic learning function to calibrate the SOC more accurately.

If the issue persists after attempting these steps, contact DALY customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Product Model	24S 72V 200A LiFePo4 Smart BMS
Battery Type	LiFePo4
Series Configuration	24S
Nominal Voltage	72V
Continuous Discharge Current	200A
Continuous Charge Current	100A
Over-discharge Current Protection	300A ± 30A (Configurable)
Over-charge Current Protection	300A ± 30A (Configurable)
Overcharge Voltage Protection	3.75V ± 0.05V per cell (Configurable)
Over-discharge Voltage Protection	2.2V ± 0.1V per cell (Configurable)
Charge Voltage	87.6V (Configurable)
Communication Interface	UART (for Bluetooth module and PC connection)
Dimensions	221 x 130 x 32 mm (approx. 9.21 x 4.72 x 2.09 inches)
Item Weight	~1884g (approx. 4.09 pounds)
Output Wire Gauge	6AWG
Balance Wires Gauge/Length	24AWG / 350mm
UPC	766293717109



After confirming that the balance wires are welded correctly and installed the accessories (such as: UART/Bluetooth/ RS485/CAN on BMS), connect balance wires and BMS connection port Pls refer to daly website link smart bms Tutorial Video <https://www.dalyelec.cn/newsshow.php?cid=25&id=78&lang=1> including:

1. Daly Smart BMS Touch screen Connection Tutorial	2. Daly Smart BMS SOC light board Connection Tutorial
3. Daly Smart BMS PC screen Connection Tutorial	4. Daly Smart BMS CANBUS Connection Tutorial
5. Daly Smart BMS Bluetooth APP Connection Tutorial	6. Daly Smart BMS UART、RS485 Connection Tutorial

Two methods ①: press activation button on the battery board ②: by charging to activate BMS for the first use.

The serial number of BMS and the protection parameters(Li-ion,LiFePO4) have default values at the factory, but the capacity of the battery pack needs to be set according to the actual capacity AH of the battery pack. If the capacity AH is not set correctly, The percentage of remaining power will be inaccurate. Other parameters can also be set to your needs. Initial password of smart board APP to change parameters is: 123456.

Figure 8.1: Fan specifications and physical dimensions of the DALY Smart BMS.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your DALY Smart BMS, please contact the manufacturer directly or refer to their official website. Keep your purchase receipt as proof of purchase.

You can visit the DALY Store on Amazon for more information: [DALY Store](#)

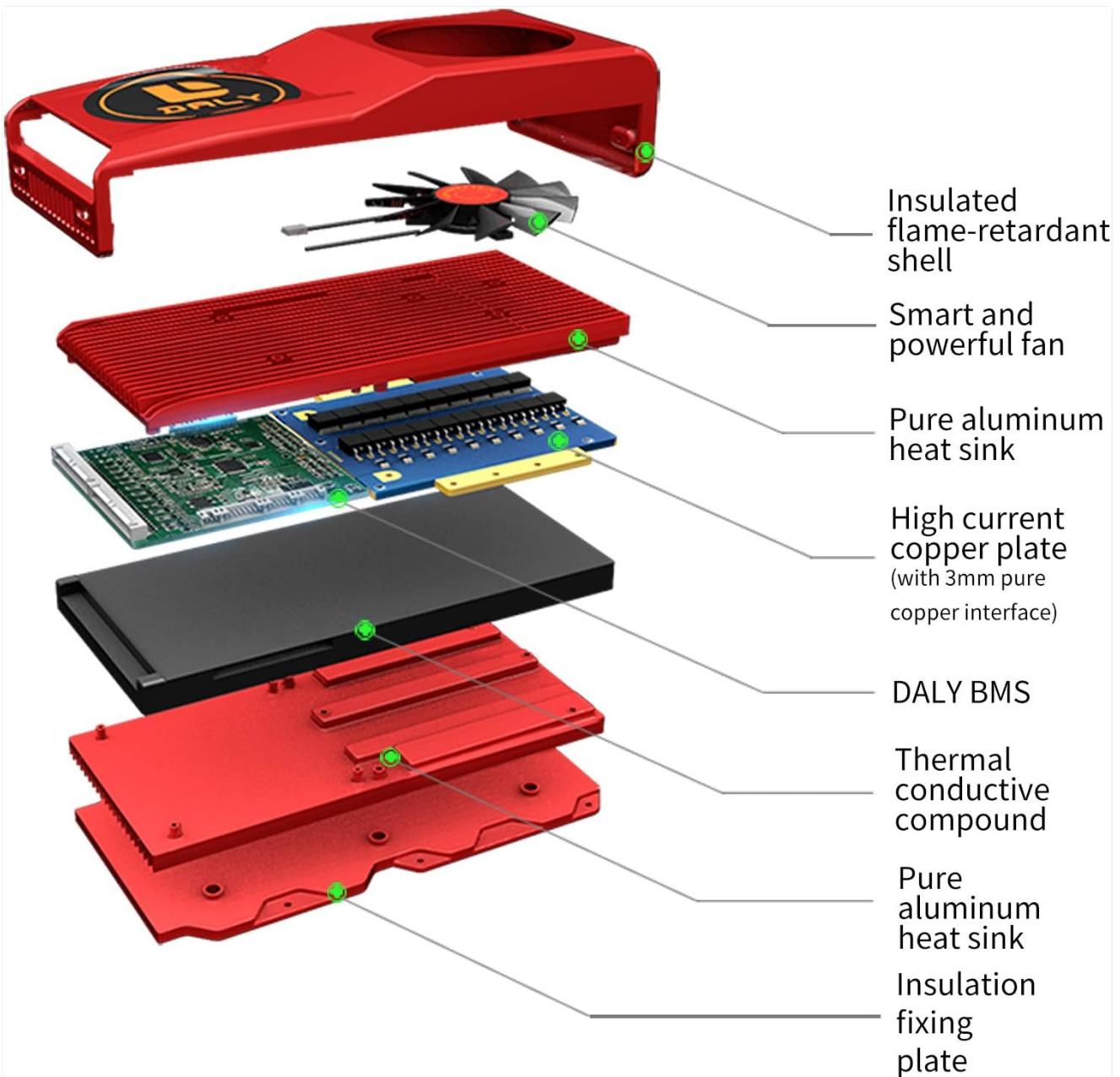


Figure 9.1: Examples of product certifications for DALY products, including Waterproof Patent, ISO, FCC, RoHS, PSE, and CE.

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Related Documents - 24S 72V 200A LiFePo4 Smart BMS

  <small>Dragon Daly Electronics Co., Ltd www.dalyelec.com Product No.: DALY DL-R32U-F012S200ATJ-MM00-S4RV Product Name: LiFePo4 12S 36V 200A Battery pack with Balance, UART, Bluetooth.</small>	<p><u>DALY DL-R32U-F012S200ATJ-MM00-S4RV LiFePO4 BMS Technical Specifications</u></p> <p>Detailed technical specifications, wiring diagrams, and warranty information for the DALY DL-R32U-F012S200ATJ-MM00-S4RV LiFePO4 12S 36V 200A Battery Management System (BMS) with Balance, UART, and Bluetooth.</p>
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一、产品简介

随着物联网技术的飞速发展和智能设备的广泛运用，越来越多的设备需要更有效、更便捷的通信和控制方式，同时对智能设备的智能化和兼容性也提出了更高要求。在这种背景下，采用蓝牙主控实现串口及一线通功能的解决方案逐渐成为行业的热门选择。

产品	YH	YK	YM
产品型号			
产品尺寸	101*61.5*3mm	95*65.5*4.2mm	88*92.4*7.2mm
兼容范围	4-8S 7-7S 2AS		
待机电流	30A/40A/60A	80A/100A/150A	150A/200A

二、使用指引

1、焊接保护板

(1)焊接采样母线:
从细黑线连接电池B- (总负极) 开始, 第2根母线连接第1块电池的正极, 后面依次连接每一块电池的正极; 最后将B+ 线也焊接在最后一块电池的正极 (总正极) 上 (请参考焊接示意图)。

*注: 请将采样母线的正负极接反, 请将母线连接到实际单极的正极, 多出的采样线无需焊接 (多出的采样线请做好绝缘处理)。

2、检测电压:

使用万能表或烧录检测设备测量每块电池的电压是否在正常范围内, 如不正常请检测连接线是否有接触、虚焊、假焊、露焊等情况。

3、焊接输出:

将B+连接线 (蓝色粗线)、P-连接线 (黑色粗线) 用螺丝锁至保护板对应的B+、P-母线上, 建议扭矩为10N·m/半圈, 并把B+线焊接电池总负极。

*注: 请将输出母线的正负极接反, 请将母线连接到实际单极的正极, 多出的采样线无需焊接 (多出的采样线请做好绝缘处理)。

4、插入保护板配件:

如遥控、电量板、GPS、显示屏, 再把采样线插入保护板自动激活。

2、蓝牙APP下载及连接

(1)下载蓝牙APP

①通过扫描保护板上的二维码下载;
②应用商店搜索“Smart BMS”;
③登录达逈官网
(<https://www.dalybms.com/>)下载;
④联系客服获取下载方式并安装APP。

(2)连接蓝牙APP

打开蓝牙APP, 在应用商店搜索并输入APP, APP会自动搜索到保护板, 选择保护板上的序列号以识别点对序列号进入电池管理界面。

3、设置参数

首次使用时, 需在APP或电脑上位机设置电池数及容量 (出厂默认以为物理参数), 电池组的容量需要按电池组的实际容量进行设置, 首次使用时需充满100%作为标准, 其他保护参数由APP自动识别并进行设置, APP修改参数的出厂默认参数为123456, PC上位机修改参数密码为12345678。

*注: 在没有充放电状态下, 保护板默认3600秒后休眠, 检测到充放电会自动唤醒, 也可通过APP对PC上位机设置休眠时间, 如设置65555则代表不休眠。

4、一卡通使用说明

在APP或上位机选择对应协议, 即可使用。

5、特别说明

(1) 不同厂家的母线不通用, 请使用我们公司配套的母线;
(2) 焊接、安装、接线和使用保护板时, 要做好静电防护;
(3) 不要损坏保护板的热敏温度接触触电芯, 否则热敏会烧毁到电芯, 影响电池的安全;
(4) 不可随意剪断、更改保护板元器件;
(5) 本公司保护板外壳仍会带电, 组装作业中避免触电、裸带接触, 因静电防护设计需要, 外壳与主板的地线接触时有电压属正常现象;
(6) 我公司产品进行严格的出厂检验测试, 但是因客户使用环境的不可控因素 (特别如高温、超低温、灰尘等), 请谨慎使用, 免避免出现保护板故障, 所以客户在选择和使用保护板时, 需要在良好的环境下使用, 选择一定冗余的保护板进行备用。

三、接口定义说明



四、常见串数据线示意图

(4)串接示意图



(5)串接示意图



(6)串接示意图



DALY Y Series BMS Technical Specifications and Wiring Guide

Detailed technical specifications, wiring diagrams, and interface descriptions for DALY Y Series Battery Management Systems (BMS), including models YH, YK, and YM. Covers cell counts from 4S to 24S and current ratings up to 200A, with information on the Smart BMS mobile application.



 <p>Daly Smart BMS 8-16S 100-200A Product Specification Approval and Manual Detailed product specification and user manual for the Daly Smart BMS 8-16S 100-200A, covering technical parameters, protection features, LED indicators, communication protocols, and installation instructions.</p>	
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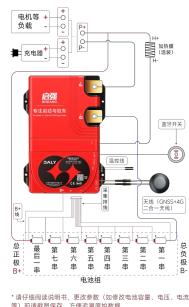


第五代卡车启动保护板
操作使用说明书

一、产品简介

随着锂电池的广泛应用，对电池管理系统的提出了高性能、高可靠性及高性价比等要求。达乐第五代卡车启动保护板，集成了100A的启动电流，100A的启动保护板，可承受3000A的瞬间大电流，内部加热块可直接加热，集成温度模块接收车电脉冲高压，且具备一键启动、智能通讯等功能。集成4G 远程通讯电源高精度北斗定位功能，可通过云平台、APP、小程序实现远程管理，查看实时定位、历史轨迹等智慧功能。

二、操作说明



*请根据连接说明，更换电池时（更换时电池容量、电压、电池等）重新设置内存，方便查询维修数据。

1. 保护板连接电池接线顺序：

特别注意：

- 不同厂家的接线不通用，请确保使用达乐配线图。
- 【注意】B+接线阻值0.5m²-0.8m²范围；
- 切记！！！焊接采样排线时，接线不要插入保护板；

11. 接线从电池负极开始连接，接线时先接正极，后接负极。接线（红线）连接第1节电池正极，后而依次连接每一步电池的正极，直到最后一节总正极，B+接线直接接入电池总正极；

12. 接线完成后每节头不要直接插入保护板，先剥削每节头背面每两根金属线子的铜丝的电压，如果用三元系合物电池电压应该在3.0-4.15V之间，铁锂电池应该在3.5-3.6V之间，钛锂电池应该在1.8-2.8V之间，确保电压无误后再进行下一步操作；

13. 插入NTC线束（确保保护板NTC口插入温度线）；

14. 将保护板B+线（蓝色粗线）接到电池总负极；

15. 将接线插入保护板；

16. 将蓝牙开关线束插入UART2接口。蓝色指示灯是蓝牙开关是1-UART1, 2-UART2, 3-蓝牙；

17. 首次上电需要充电，或蓝牙开关接线断开。

2. 测量电池B+、B-电压与B+、P-电压是否相等（即：电池组本身电压和经过保护板之后的电压是否相等），相等即说明保护板正常工作，可以正常使用了。如不相等，请按照上面接线顺序重新检查一遍。

3. 接负载和充电器：

3.1 将负载负极和充电器负极与电池组总正极连接；

3.2 将负载正极和充电器正极与电池组总负极连接。

4. 下载通讯软件(手机端 DALY BMS APP, 电脑端上位机)。设置电池组的容量(Ah)为正确的容量。

4.1 在手机应用市场搜索DAILY BMS, 下载并安装。

4.2 打开手机的定位和蓝牙及相关权限功能。

4.3 打开DAILY BMS APP，首页选择4G设备，备注并绑定设备。

4.4 在设备的右下角有参数设置，点击打开，选择电池参数，可以看数据设置配置，输入自己电池组的安防容量XX，点右键设置，默认密码123456。

4.5 容量设置好，可以对电池组进行充电，充电桩发了过充二级保护，SOC会自动校准为100%。

5. 天线安装

特别注意：

- 外置天线切勿放置于进气管体内，需要将天线外置，注意固定安装，以防风损；
- 51 铁体天线请开孔，开孔建议13-15.5 mm，最终需结合天线实物判断。

三、接口定义说明



四、远程管理、蓝牙开关模块使用说明

1. 小程序/DAILY APP远程管理

(1)“启动宝”小程序远程管理
“启动宝”微信小程序功能：可进行数据监控、一键强启、一键加热、预约加热、实时定位、历史轨迹等操作。

*连接方式一：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式二：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式三：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式四：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式五：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式六：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式七：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

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*连接方式八：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

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*连接方式九：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式十：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式十一：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式十二：通过扫描二维码，快速连接

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*连接方式三十九：通过扫描二维码，快速连接

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*连接方式四十：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

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“启动宝”微信小程序，选择“连接设备”，注

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*连接方式五十一：通过扫描二维码，快速连接

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*连接方式六十：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

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*连接方式六十一：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

册绑定后即可连接保护板实现远程管理。

*连接方式六十二：通过扫描二维码，快速连接

“启动宝”微信小程序，选择“连接设备”，注

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企业名称 (Company Name):		DAILY BIMS	
产品规格承认书 Product Specification Approval			
产品名称 (Product Name): 100% Polyester Yarn			
产品型号 (Product Model): 100% Polyester Yarn			
产品规格 (Product Specification): 100% Polyester Yarn			
生产厂 (Manufacturer):	DAILY BIMS		
生产厂地址 (Manufacturer Address):	No. 123, Jiahe Street, Shijiazhuang, Hebei, China		
生产厂电话 (Manufacturer Phone):	+86 311 55555555		
生产厂传真 (Manufacturer FAX):	+86 311 55555556		
包装尺寸 (Packaging Dimensions):	长度 (Length):	宽度 (Width):	高度 (Height):
包装重量 (Packaging Weight):	毛重 (Gross Weight):	净重 (Net Weight):	单位 (Unit): kg
包装方式 (Packaging Method):	纸箱 (Carton)		
包装说明 (Packaging Instructions):	小心轻放 (Handle with Care)		
包装单 (Packing Slip):	随箱附带 (Attached to the Carton)		
包装单号 (Packing Slip No.):	P-2023-001		
包装单日期 (Packing Slip Date): 2023-01-01			
包装单签字 (Packing Slip Signature):			
包装单盖章 (Packing Slip Seal):			
包装单备注 (Packing Slip Remarks):			
包装单确认 (Packing Slip Confirmation):			
确认人 (Confirm Person):			
确认人签字 (Confirm Person Signature):			
日期 (Date):			
注: 本确认书仅适用于本批次产品, 不能作为以后批次的依据。本确认书一式两份, 由双方各执一份, 具有同等法律效力。本确认书自双方签字盖章之日起生效, 有效期至2023年12月31日。			
Note: This confirmation is valid only for this batch of products and cannot be used as a basis for future batches. This confirmation is in two copies, one for each party, and has equal legal effect. This confirmation becomes effective upon signature and stamping by both parties and is valid until December 31, 2023.			

[DALY BMS DL-R24M-FTJ Smart BMS LiFePO4 Product Specification Approval](#)

Product specification approval document for the DALY BMS DL-R24M-FTJ Smart BMS LiFePO4 detailing technical parameters, protection features, interface definitions, and usage guidelines.