

# 小红板软件板说明书

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小红板说明书（软件）

东莞市达锂电子有限公司  
Dongguan DALY Electronics Co., Ltd.

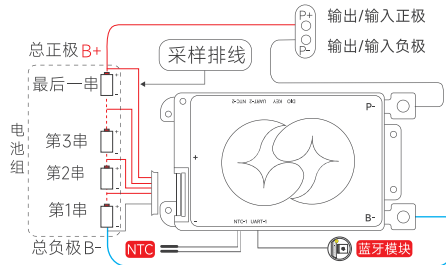
www.dalybms.com

## I 产品目录

产品图片	板型	串数范围	电流范围	尺寸
	RH	3-16S	40A/60A	48*75*14mm
	RK	3-24S	40A/60A/ 100A	65*123*14mm
	RM	3-24S	150A	66*164*21mm
			200A	
	RS	3-24S	250A/300A/ 400A/500A	108*183*26 mm

被动均衡开启条件:①锂电池充电中;② 被动均衡开启电压:三元3.9V/铁锂3.4V (均衡开启压差20-50mA);③电阻式放电 (70-100)±30mA。

## II 操作说明



以24串为例, 按照以下顺序依次接线, 依次类推:  
步骤① 先接B-线; ②1-17串大排线; ③18-24串小排线。

注: 此接线图以K系列100A保护板为例。

### 保护板连接电池接线顺序:

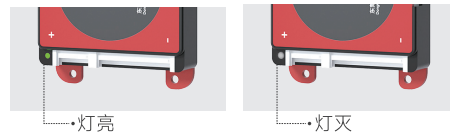
- 将B-蓝色线接到电池总负极(B-线的长度不宜超过40cm);
- 排线从细黑线连接总负极B-开始连接, 第2根线(红线)连接第一串电池正极, 后面依次连接每一串电池的正极, 直到最后一串总正极;
- 排线连接好后插头不要直接插入保护板, 先检查确认线序是否连接正确, 如果是三元聚合物电池电压应该在3.0~4.15V之间, 铁锂电池应该在2.5~3.6V之间, (钛酸锂电池、钠电池需定制), 确保电压无误后再进行下一步操作;
- 插入NTC1 (确保NTC1处插入了温控探头);
- 将排线加入保护板;

6. 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)。相等电压保护板属于正常工作。如不相等, 请按照上面接线顺序重新检查一遍。

7. 将蓝牙插入UART接口, 可通过APP查看电池数据。

## III 运行灯说明

灯闪为BMS激活/工作状态, 灯灭为BMS休眠状态/未激活状态。



## IV 注意事项

- 建议螺丝扭矩为8-10N·m(牛米)。
- 智能板默认休眠时间为3600S, 即1小时。如需取消休眠, 可设置休眠时间为: 65535。智能板APP修改参数出场密码: 123456
- 电池组的容量是需要按电池组的实际容量AH进行设置的, 若容量AH没有正确设置, 则剩余电量的百分比就会不准, 首次使用需充满100%作为标定(充放电以安时叠加法计算)。
- DIY用户凡焊接过保护板B-/P-线后不退不换, 损坏需要付费维修。由电池故障产生的财产损失, 需用户自行承担, 本公司只对保护板进行维修及售后。

## V 联系我们

联系电话/微信: 136 0234 1773

# Mini-red Smart BMS Instruction Manual



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After-Sales Contacts

Mini-red Instruction Manual (Software)

东莞市达锂电子有限公司  
Dongguan DALY Electronics Co., Ltd.

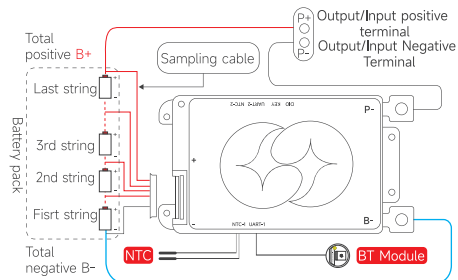
www.dalybms.com

## I Product catalog

Product Photo	Model	Strings	Current	Size
	RH	3-16S	40A/60A	48*75*14mm
	RK	3-24S	40A/60A/ 100A	65*123*14mm
	RM	3-24S	150A	66*164*21mm
			200A	
	RS	3-24S	250A/300A/ 400A/500A	108*183*26 mm

Passive balancing activation conditions: ① Battery charging; ② Passive balancing activation voltage: Li-ion 3.9V/ LiFePO4 3.4V (balancing activation voltage difference: 20~50mV); ③ Resistive discharging: (70-100)±30mA.

## II Operating Instructions



Example: 24 Strings – wire in the following order, and so on:

- ① First connect B- line;
- ② 1-17 strings main harness;
- ③ 18-24 strings aux harness.

**Note:** This wiring diagram takes the K series BMS as an example.

### Wiring sequence of battery

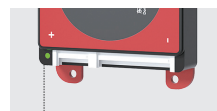
1. Connect blue line on the BMS to the total negative electrode of the battery (the length of the B-wire should not exceed 40cm);
2. The sampling wires starts from the thin black wire to the total negative electrode B-, the second wire (red wire) connects the positive electrode of the first string of battery, followed by the positive electrode of each string of battery, until finish connecting the last string of total positive electrode ;
3. After the sampling wires are connected, do not directly plug them to the BMS. First check that the sequence is correctly connected. If the voltage of NMCLi-ion battery should be between 3.0-4.15V; the voltage of LFP(LiFePO4) battery should be between 2.5-3.6V; (LTO & SiB: customization required) .Please make sure that the voltage is correct before the next operation;
4. Plug the NTC1 (ensure that the temperature sensor is inserted at the NTC1 port);
5. Insert the sampling wire into the BMS;

6. Measure whether the battery voltage between B+ & B- and voltage between B+ & P- are the same ( The voltage of the battery pack is the same as the voltage after pass through the BMS). If voltage are the same, that means the BMS works normally. If not, please check wiring sequence according to the above.

7. Plug the optional Bluetooth module into the UART port. View battery data via APP.

## III Operating light description

Flashing=BMS active/operating;  
Off=BMS sleep/inactive.



• Lights flash



• Lights off

## IV Points for attention

1. Recommended screw torque of 8-10N·m(nm).
2. The default sleep time of the APP is 3600S, which is 1 hour. If you want to cancel sleep mode, you can set the sleep time as: 65535. The APP password of setting parameters: 123456.
3. The rated capacity of the battery should be set according to the actual capacity of the battery pack AH. If the capacity AH is not set correctly, the SOC will be inaccurate. When using BMS for the first time, the battery needs to be charged to 100% to calibrate the SOC (Charge/discharge calculated via AH summation) .
4. If the BMS is damaged unnormally, we will only provide paid repairs. Property losses caused by battery failure will be borne by the user. Our company only provides maintenance and after-sales service for the BMS.

## V Contact Us

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