



Mini-red Hardware BMS Instruction Manual



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小红板硬件说明书(GHKM)

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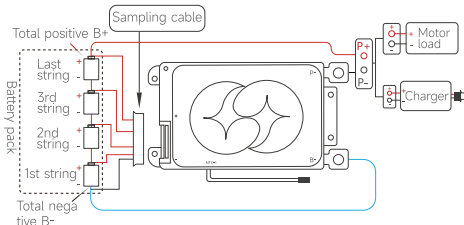
I Product Catalog

DALY New Hardware Selection

Catalog					
Model	G	H	K	M	
Type	J04G6/J07G6	J16H3	J24K3	J24M3	J24M3
Strings	3-13S	3-16S	3-24S	3-24S	3-24S
Current (standard product)	15A/20A	40A/60A	40A/60A/100A	150A	200A

Note: This operation manual is applicable to the above hardware BMS.

II Wiring Diagram



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

1. Wiring sequence of battery

Attention:

- Wires of different BMS suppliers are different, please make sure to use the matching cable; different BMS suppliers' B- and P- cables have different colors, please pay attention to B- and P- logo;
- When welding sampling cable, be sure not to plug the cable to the BMS;

1.1 The sampling cable starts from the thin black cable to the total negative electrode B-, the second cable (red cable) connects the positive electrode of the first string of battery, followed by the positive electrode of each string of battery, until finally connecting the last string of total positive electrode B+;

1.2 After the sampling cable are connected, do not directly plug them to the BMS. First check that the sequence is correctly connected. If the voltage of NMC(Li-ion) battery should be between 3.0-4.15V; the voltage of LFP(LiFePO4) battery should be between 2.5-3.6V; the voltage of LTO(Lithium-titanate battery) should be between 1.8-2.8V. Please make sure that the voltage is correct before the next operation;

- 1.3 Plug the NTC (ensure that the temperature sensor is inserted at the NTC port);
- 1.4 Connect B- on the BMS to the total negative electrode of the battery (the length of the B- cable should not exceed 40cm);
- 1.5 Insert the sampling cable into the BMS;
- 1.6 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 the protection plate). If voltage are the same, that means the BMS works normally. If not, please check wiring sequence according to the above.

2. Connect to the load and the charger

- 2.1 Connect the P- cable to the negative of the load and to the negative of the charger.
- 2.2 Connect positive electrode wire of load power supply to the total positive electrode of the battery pack; the positive electrode wire of the charger connect to the total positive electrode of the battery pack.

III Points for attention

1. Recommended screw torque of 8-10N·m (nm).
2. When the BMS is used in a solar charging system, you need to wait for the BMS to detect the battery voltage before charging. A small charging board must be selected for use in order to make the whole system work properly.
3. After confirming that the wire is welded correctly, insert the wire into the BMS (Note: the blue B- wire on the BMS is connected to the total negative electrode of the battery, and the black P- wire is connected to the negative electrode of the charge and discharge), and then install the accessories with the product (such as: standard temperature control/optional power board/optional Bluetooth/optional GPS/optional display screen/optional customized communication interface) on the BMS.
4. When the NTC is not inserted, the BMS cannot perform normal and will cut off charge and discharge.
5. If the BMS is damaged, 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.

IV Contact Us

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