48v13s bms wiring diagram

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48V 13s BMS for lithium-ion cells.

A Battery Management System, or BMS for short, is used to protect your battery during charging and discharging.

During charging, the BMS will monitor the voltage of all of your cells and balance the cell groups to ensure they are charged equally.

During discharging, the BMS will monitor the voltage of all of the cells, as well as the entire pack voltage and the discharge current. If the BMS determines that any of its preset limits have been passed, such as the battery draining too low or an unsafe amount of current being pulled from the battery, the BMS will cut power to the battery to protect it from damage.

The BMS is easy to install, but will require that you are decent with a soldering iron if you want to extend the wires. The wiring diagram for this BMS is shown below, and you can read an article showing you how to install a BMS on your VRUZEND kit here. Please make sure you read the instructions in that article so you can install your BMS properly. Note: it is important to connect the B- wire (the thickest black wire) first, and then continue connecting the rest of the wires, as described in the instructional article.

Note: Our BMSs have recently been updated with an external temperature sensor. This is a pair of white wires with a temperature sensor on the end. It is simply an extra safety feature and the sensor can be placed anywhere in the battery pack for temperature monitoring to ensure BMS cutoff if the safe limit has been surpassed.

Charging voltage: 54.6 V

Operating temperature: -5?F to 113?F (-15?C to +45?C)

Board dimensions: 4.25″ x 2.33″ x 0.33″ (10.9 cm x 5.9 cm x 0.9 cm)

Note: this BMS is designed for lithium-ion cells, and will not work for LiFePO4 cells.

Thank you for your service!

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