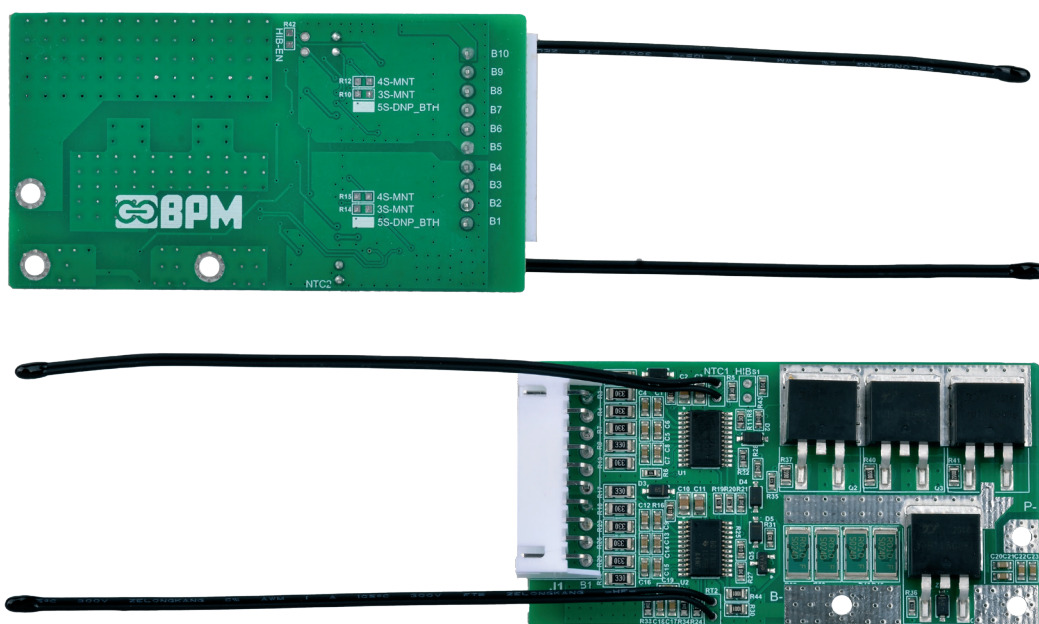


PRODUCT DATA SHEET

Battery Management System (BMS)

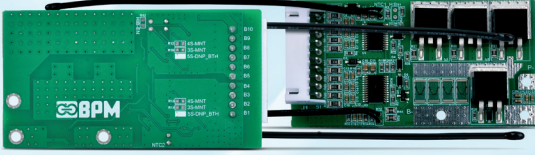


TECHNICAL SPECIFICATIONS

Parameter	Specification
Battery Type	Li-ion / LiPo
Configuration	10S (10 cells in series)
Nominal Pack Voltage	36V
Max Charge Voltage	42.0V
Continuous Discharge Current	15A
Charge Current (Max)	5A
Balancing Type	Passive
Balancing Start Voltage	3.8V
Balancing Current	50mA per cell
Overcharge Detection Voltage	4.2V±0.025V (0.8S—1.4S)
Protection IC Brand	Texas Ins.

TECHNICAL SPECIFICATIONS

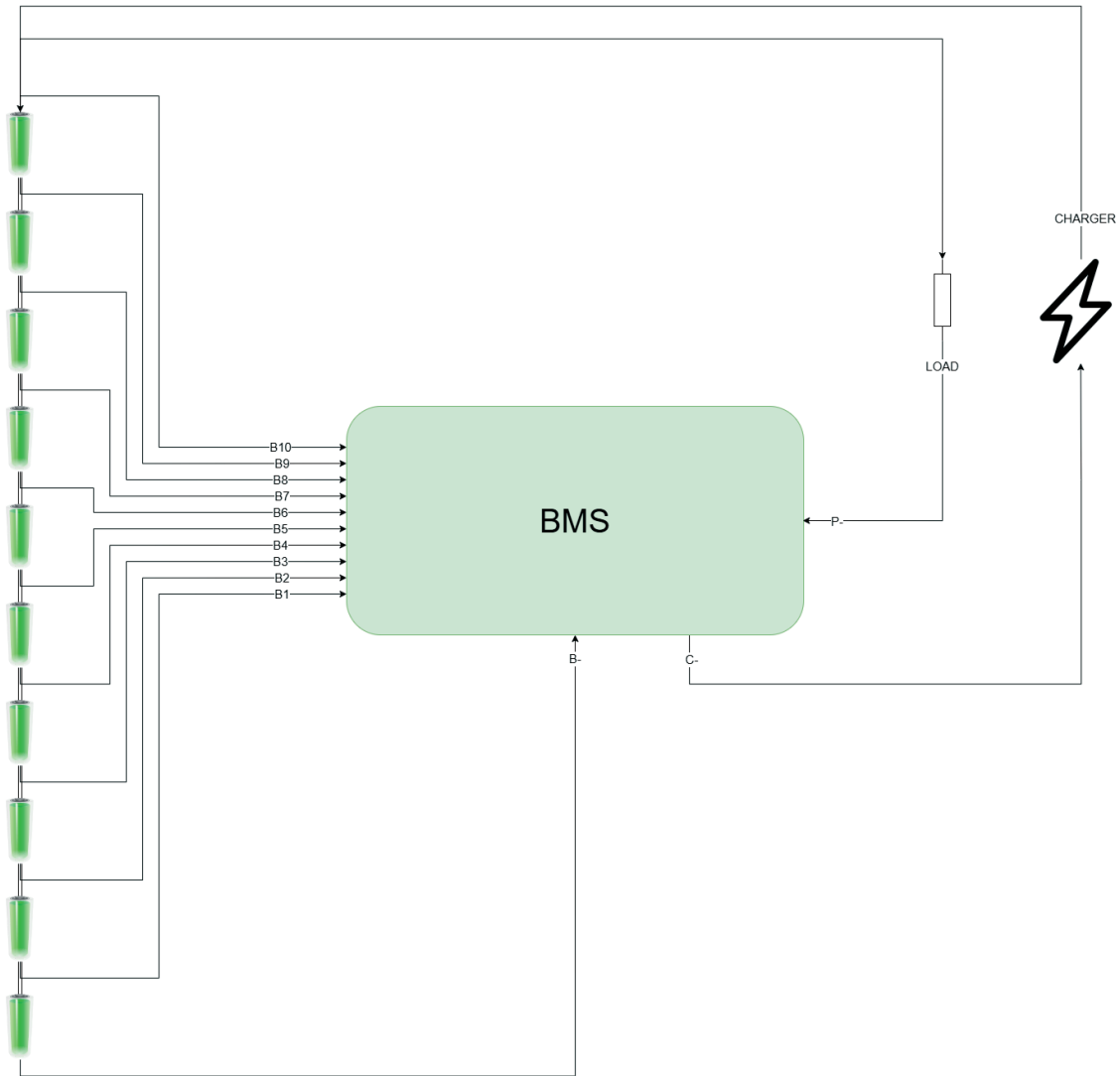
Overcharge Release Voltage	4V±0.05V
Overdischarge Detection Voltage	2.9V±0.025V (0.8S—1.5S)
Overdischarge Release Voltage	3.0V ± 0.1V
Overcurrent Detection	24A ± 1A (155mS—205ms)
Short Circuit Protection	48A±3A (528—1450us)
OverTemperatureCharge	45°C
OverTemperatureDischarge	65°C
UnderTemperatureCharge	0°C
UnderTemperatureDischarge	-10°C
Operating Temperature Range	-10~+65°C
PCB Dimensions	71.5mm x 37.5mm x 9mm
Weight	~17.5g



PRODUCT DATA SHEET

Battery Management System (BMS)

CONNECTION DIAGRAM



If a switch is to be used for the e-bike, it must be connected to the HiB S1 input. If no switch is used, the R42 pins on the back of the board or the HiB S1 pins designated for the switch must be short-circuited.

GENERAL DESCRIPTION

The BMS-10S-15A is designed for 10 series lithium-ion or lithium-polymer battery packs, offering protection against over charge, over discharge, over current, over temperature, under temperature and short-circuit events. The board supports passive cell balancing and is suitable for e-bike batteries, power tools, and energy storage systems.

PACKAGE CONTENT

- 1x BMS Board (10S 15A)
- 1x JST Cable

MANUFACTURER / CONTACT INFO

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