

2S 5A PCM for 7.4V (2S) Li-ion Battery Packs



LWS® is a high-tech enterprise integrating the research and development, production, sales and client service of multi-series and power type lithium battery protection boards. Our LWS BMS 2S 5A PCM for 7.4V (2S) Li-ion Battery Packs have passed CE, RoHS. We have been specialized in bms production for many years. Our products have a good quality advantage, both with high-precision E-Testing, 100% testing.

Product Introduction

LWS® battery protection board always monitor the state of battery, when 4.25V or so to stop charging, the battery voltage is lower than 2.7 V or so to stop discharging, limit the output current, output short circuit to stop discharging, delay self-recovery, intelligent control of charging current, prevent damage to the battery, can greatly improve the service life of lithium battery.

Product Parameter (Specification)

Shenzhen Li-ion Battery Bodyguard Technology Co.,LTD			
PCM Specifications For LWS® 7.4V (2S) Li-ion Battery Packs			
No.	Test item		Criterion
1	Voltage	Charging voltage	DC:8.4V CC/CV
		Single balanced voltage	4.2V±0.025V
2	Current	Balance current for single cell	42±10mA
		Current consumption	≤20uA
		Maximal continuous charging current	5A
		Maximal continuous Discharging current	5A
3	Over charge Protection	Overcharge detection voltage	4.25V±0.025V

	(single cell)	Over charge detection delay time	0.5—1.5S
		Over charge release voltage for single cell	4.05±0.05V
4	Over discharge protection (single cell)	Over discharge detection voltage for single cell	2.80V±0.08V
		Over discharge detection delay time	50mS—150mS
		3.00±0.10V	
5	Over current protection	Over current detection voltage	200±25mv
		Charge Over current detection	15±2A
		Detection delay time	5—20mS
		Release condition	Cut load, Automatic recovery
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200—500uS
		Release condition	Cut load, Automatic recovery
7	Resistance	Protection circuitry (MOSFET)	≤50mΩ
8	Temperature	Operating Temperature Range	-20~+60°C
		Storage Temperature Range	-20~+85°C

Product Feature and Application

Our 2S 5A PCM for 7.4V (2S) Li-ion Battery Packs can be used for solar street light, LED lights, Emergency lights, Digital Equipment, electric scooter, e-bike, electric tricycle, low speed ev, RV& Home energy storage, electric tool, etc.

Product Details

2S 7.4V 5A lithium-ion battery protection board is suitable for 2 series 1A-5A Li-ion and LiFePO4 battery packs.

It has table various charge and discharge protection functions, such as accurate overcharge protection, overdischarge protection, overcurrent protection and short circuit protection.

The BMS manufactured by high quality Mos and IC imported .

The Balance function could balancing continuous balanced Voltage and current, ensure battery consistency, improve battery cruising range, and delay battery aging.

And support high quality Temperature protection:65°C or 75°C , when the temperature

rises to the operating temperature value, the circuit is cut off/on to protect the battery pack.

This BMS protects 2 lithium batteries cells connected in series from overcharging, over-discharging, over current, and short-circuit.

Notes

- 1) Wire connection strictly according to the drawing, do not intentionally short circuit.
- 2) Before charged, need to connect the cables first.
- 3) When the group of battery is connected in series, ensure that the voltage of each group of batteries voltage is the same. If not, fill each group of batteries separately before connecting them in series. In discharge tests, the group of cells with the fastest voltage drop is the differential cell.