

1S 3.7V 2A lithium ion BMS PCM 18650 Battery Protection Board PCB

LWS is a 1S 3.7V 2A lithium ion BMS PCM 18650 Battery Protection Board PCB factory who has over 10 years experiences in the new energy industry. We are high-tech enterprise integrating the research and development, production, sales and client service of multi-series & high-current battery protection modules, in addition to the conventional hardware control scheme also developed with software function of the BMS, compatible with RS232, RS485, I2C, CAN, SMBUS, Bluetooth, also available to assemble battery pack what mainly cover 2-35 series, working current up to 300A, our products specifications and models are complete, can also be customized as customer's requirements.



Product Introduction

Our 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. You are welcomed to come to LWS to buy the latest selling, low price, and high-quality 1S 3.7V 2A lithium ion BMS PCM 18650 Battery Protection Board PCB. We look forward to cooperating with you. Jackery Solar Generator

Product Parameter (Specification)

PCM Specifications For 3.7V (1S) Li-ion Battery Packs			
Model: LWS-1S5A-012 (1S)			
No.	Test item		Criterion
1	Voltage	Charging voltage	DC:4.2V CC/CV
		Single balanced voltage	
2	Current	Balance current for single cell	
		Current consumption	Max:20 μ A
		Maximal continuous charging current	2A
		Maximal continuous Discharging current	2A
3	Over charge Protection (si	Overcharge detection voltage	4.25V \pm 0.025V

	ngle cell)	Over charge detection delay time	0.5S—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
		Over discharge release voltage for single cell	3.0±0.1V
5	Over current protection	Over current detection voltage	150±30mv
		Charge Over current detection	6±2A
		Detection delay time	5mS—15mS
		Release condition	Cut load
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-500us
		Release condition	Cut load
7	Resistance	Protection circuitry (MOSFET)	≤50mΩ
8	Temperature	Operating Temperature Range	-40~+85℃
		Storage Temperature Range	-40~+125℃

Product Feature and Application of 1S 3.7V 2A lithium ion BMS PCM 18650 Battery Protection Board PCB

- 1.High accuracy voltage detection circuit
- 2.Using high voltage device charging terminal
- 3.Overcurrent detection circuit
- 4.The battery charge and discharge can be controlled the MOS transistor

Our 1S 3.7V 2A lithium ion BMS PCM 18650 Battery Protection Board PCB is suitable for the following products:

Massager battery pack, 1S battery pack, LED light backup power, 3.7V electronic products, Solar Street light battery pack, Monitoring backup power, and other products.

Product Details

LWS 1S 3.7V 2A lithium ion BMS PCM 18650 Battery Protection Board PCB

This BMS protects 1 lithium battery from overcharging, over-discharging, over-current, and short-circuit.

3.7V battery pack rated voltage, 4.2V battery pack full charge voltage, 3.6V battery

pack rated voltage.

This board is not designed for high powered tools such as portable drills and alike.

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.