

1S 5A 3.7V 18650 Lithium ion Battery BMS

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 1S 5A 3.7V 18650 Lithium ion Battery BMS has 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

As a professional high quality 1S 5A 3.7V 18650 Lithium ion Battery BMS manufacture, you can rest assured to buy 1S 5A 3.7V 18650 Lithium ion Battery BMS and we will offer you the best after-sale service and timely delivery. 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.

Product Parameter (Specification)

PCM Specifications For 3.7V (1S) Li-ion Battery Packs			
No.	Test item		Criterion
1	Voltage	Charging voltage	DC4.2V
		Single balanced voltage	
2	Current	Balance current for single cell	
		Current consumption	$\leq 10 \mu A$
		Maximal continuous charging current	5A
		Maximal continuous Discharging current	5A
3	Over charge Protection (single cell)	Overcharge detection voltage	$4.25V \pm 0.025V$
		Over charge detection delay time	0.7S—1.3S
		Over charge release voltage for single cell	$4.05 \pm 0.05V$
4	Over discharge protection (single cell)	Over discharge detection voltage for single cell	$2.50 \pm 0.062V$
		Over discharge detection delay time	14mS—26mS

		Over discharge release voltage for single cell	$3.0 \pm 0.1V$
5	Over current protection	Over current detection voltage	$0.20 \pm 0.02V$
		Charge Over current detection	$10 \pm 3A$
		Detection delay time	7.2ms—11ms
		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)	$\leq 50m\Omega$
8	Temperature	Operating Temperature Range	$-40 \sim +85^{\circ}C$
		Storage Temperature Range	$-40 \sim +125^{\circ}C$

Product Feature and Application

1.High accuracy voltage detection circuitOur 1S 5A 3.7V 18650 Lithium ion Battery BMS 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 PCB1S 5A 3.7V 18650 Lithium ion Battery 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.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.