

Specification

Lithium Polymer Battery Pack LP503759 3.7V 2P 2400mAh with Protection Circuit Module (PCM)
This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by LiPol Battery Co., Ltd - China

Mechanical Chracteristics

Cell	▶ LP503759
PCM	▶ Yes
NTC	▶ 10K 1% @ +25C B3435
Configuration	▶ 1S2P
Weight	▶ appr.50g

Electrical Specification

Rated Capacity	▶ 2400mAh min, 2450mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 8.88Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ± 50mV
Max. Charge Current	▶ 1200mA
Max. Continuous Discharge Current	▶ 2400mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <120mΩ
Expected Cycle Life @ (0.5C/0.5C) @ 23±5°C	▶ 500 cycles ≥ 80%

Cell Protection

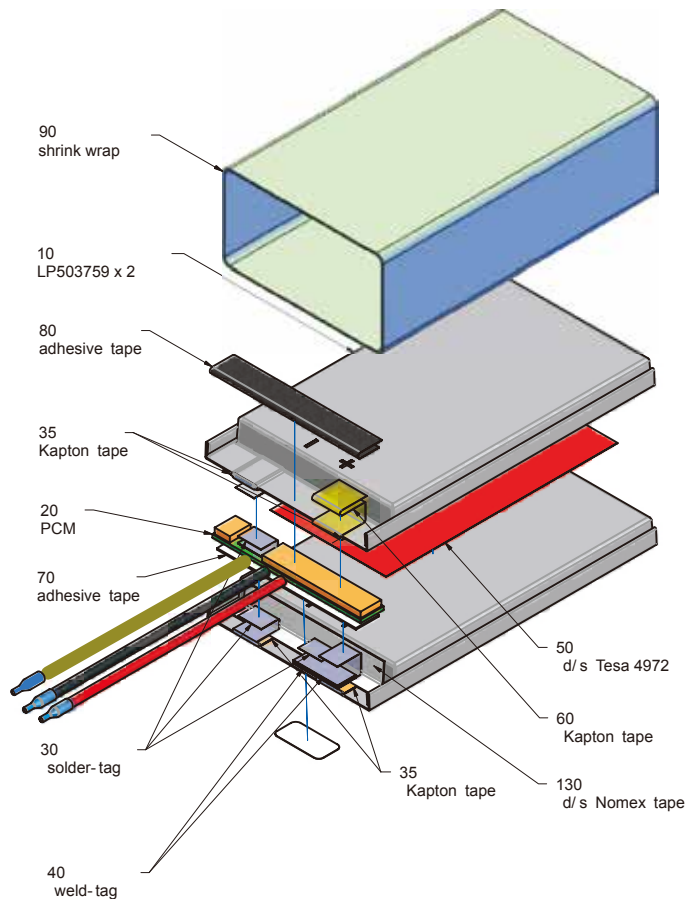
Overcharge Detection	▶ 4.275 ±50mV (0.7 to 1.3sec. delay, release 4.275V ±50mV)
Overdischarge Detection	▶ 2.75V ±50mV (14 to 26msec. delay, resume 2.50V ±50mV)
Overcurrent Detection	▶ 3A to 4.5A (8 to 16msec. delay)

Ambient Conditions

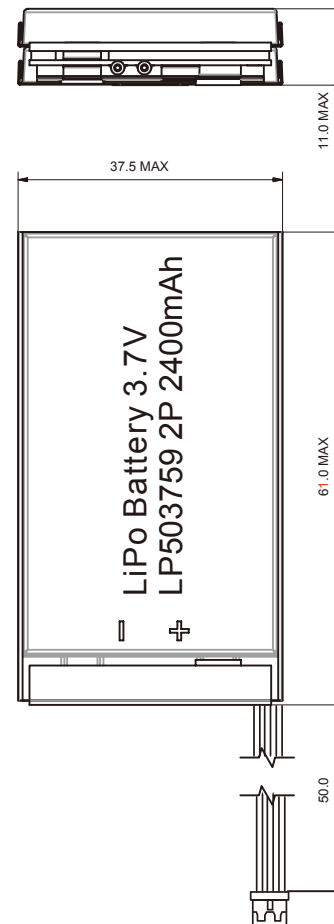
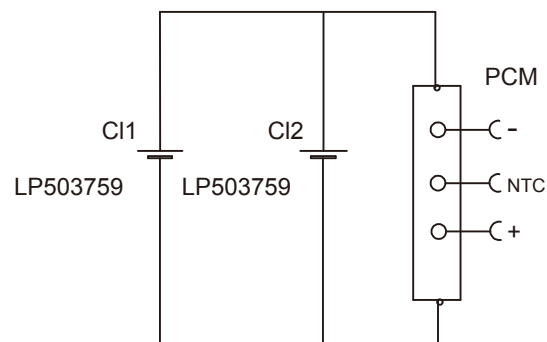
Charge Temp. Range	▶ 0 to +45°C
Discharge Temp. Range	▶ -20 to +60°C
Storage Temp. Range	▶ 1 year at -20 to +30°C >70%
	▶ 3 moths at -20 to +45°C >70%
	▶ 1 month at -20 to +60°C >70%
Humidity	▶ 65 ±20%RH

Environmental and Safety

Please follow LiPol Handling and Safety Precautions for Lithium Polymer Battery.
This battery meets the requirements of Battery Directives, and the battery parts are IEC62133-2:2017 & RoHS-Compliant. For more safety precautions and performance standards, please go to www.lipolbattery.com/support.html



Circuit diagram



Projection:		Diese Mae werden besonders geprüf This dimensions are considered inspectable		Material	6645165 6332	
Mae in mm All dimensions in mm	Freimatoleranzen Generaltolerances	Date	Name	LiPol Battery		
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.	up to 6 over 6 up to 30 over 30 up to 100 over 100	Erst. / Orig. Bearb. / Desig. Gepr. / Check	Xie Qingfang Guo Daxia			
Proprietary data, company confidential, all rights reserved.	0,1 0,2 0,3 0,5	Benennung/ Designation	LP503759 2P			
		Origin:		3	Zchg. / Dwg. Nr. FD_3759_29	Index
				www.LiPolBattery.com		support@lipolbattery.com