

Specification

Lithium Polymer Battery Pack (LP505590) 2500mAh 3.7V with Protection Circuit Module (PCM)

This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by Cellevia

Mechanical Characteristics

Type number: LP505590
 Designation IEC system: Lithium polymer battery pack
 Length: 90 ± 0.4 mm
 Width: 55 ± 0.4 mm
 Thickness: 5.0 ± 0.2 mm
 Cable: 150 ± 3.0 mm (26AWG UL 1007)
 Weight: appr. 47.0g
 Connector: JST 2.54 male & female connectors

Electrical Specification

Rated capacity: 2500mAh min, 2540mAh typ.
 Nominal voltage: 3.7V
 Max. operating voltage range: 3.0V to 4.2V
 Charge voltage: 4.2 ± 50 mV
 Initial charge current: Standard charge: 1250mA
 Rapid charge: 2500mA
 Charging cut-off (A or B)
 A) By time: Standard charge: 7 hours
 Rapid charge: 4 hours
 B) By min. current: 50.0mA
 Max continuous discharge current: 2500mA
 Exp. cycle life: >500 cycles >70% of initial cap. (0.5C/0.5C)
 Internal impedance (1kHz): approx 37mOhm
 Cell protection
 Overcharge detection: 4.325 ± 25 mV
 (0.5 to 2.0 sec. delay, resume 4.075 ± 50 mV)
 Overdischarge detection: $3.00V \pm 25$ mV
 (6.25 to 250msec. delay, resume $2.9V \pm 100$ mV)

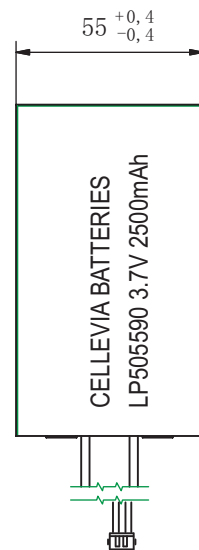
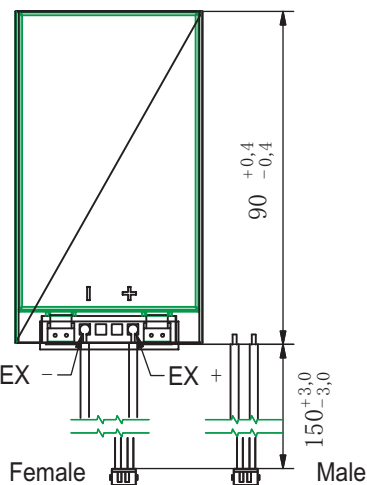
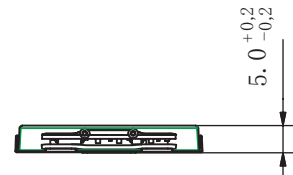
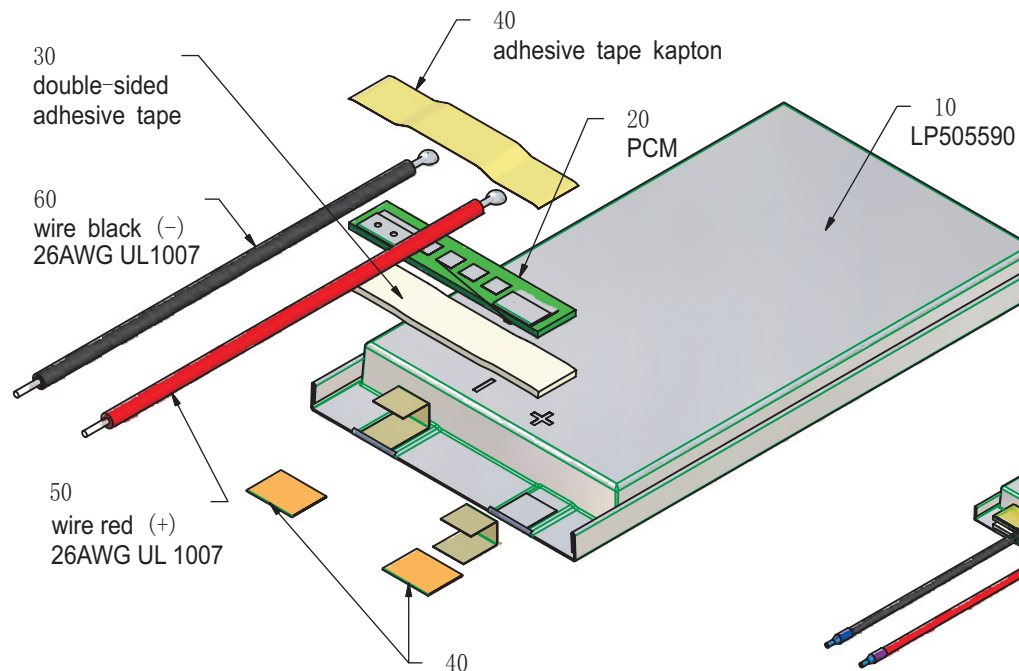
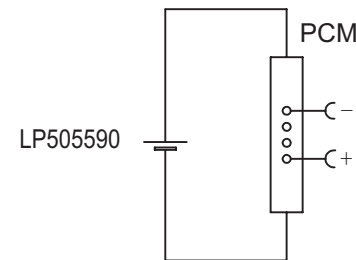
Ambient conditions

Temperature range
 Charge: 0 to +45°C
 Discharge: -20 to +60°C
 Charge retention/Storage: 1 year at -20 to 20°C >70%
 3 month at -20 to 45°C > 70%
 1 month at -20 to 60°C > 70%

Safety

Please follow handling and Safety Precautions Poliflex.

Circuit diagram



Index	Alteration		Date	Name		
Projection:		Diese Mae werden besonders geprüf This dimensions are considered inspectable	Date	Name		
Mae in mm All dimensions in mm	Freimatoleranzen Generaltolerances	Erst./Orig 12.08.2013 Xie Qingfang	Material 6645175 6819			
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.	up to 6 ' 0,1 over 6 up to 30 ' 0,2	Bearb./Desig Gepr./Check 12.08.2013 Guo Daxia				
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 ' 0,3 over 100 ' 0,5	Benennung/Designation LP505590			Zchg. / Dwg. Nr. 3 FD_2566_20	Index
		Origin:				