

Specification

Lithium Polymer Battery Pack (LP402036) 220mAh 3.7V 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 Characteristics

Type number: LP402036
Designation IEC system: Lithium polymer battery pack
Length: $36 \pm 0.4\text{mm}$
Width: $20 \pm 0.2\text{mm}$
Thickness: $4.0 \pm 0.2\text{mm}$
Cable: $150 \pm 3.0\text{mm}$ (26AWG UL 1007)
Weight: appr. 6.0g
Connector: JST 2.54 male & female connectors

Electrical Specification

Rated capacity: 220mAh min, 240mAh typ.
Nominal voltage: 3.7V
Max. operating voltage range: 3.0V to 4.2V
Charge voltage: $4.2 \pm 50\text{mV}$
Initial charge current: Standard charge: 110mA
Rapid charge: 220mA
Charging cut-off (A or B)
A) By time: Standard charge: 7 hours
Rapid charge: 4 hours
B) By min. current: 4.4mA
Max continuous discharge current: 220mA
Exp. cycle life: >500 cycles >80% of initial cap. (0.5C/0.5C)
Internal impedance (1kHz): approx 47mOhm
Cell protection
Overcharge detection: $4.325 \pm 25\text{mV}$
(0.5 to 2.0 sec. delay, resume $4.075 \pm 50\text{mV}$)
Overdischarge detection: $3.00\text{V} \pm 25\text{mV}$
(6.25 to 250msec. delay, resume $2.9\text{V} \pm 100\text{mV}$)

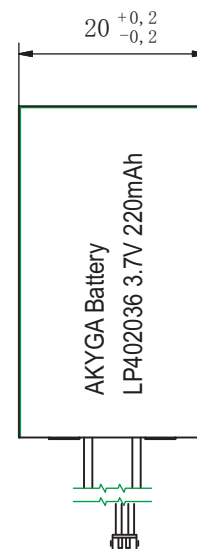
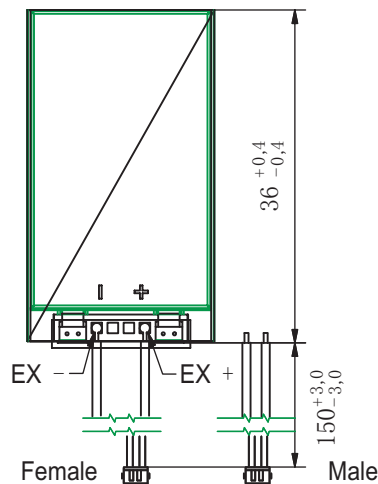
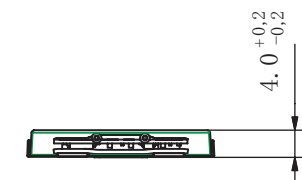
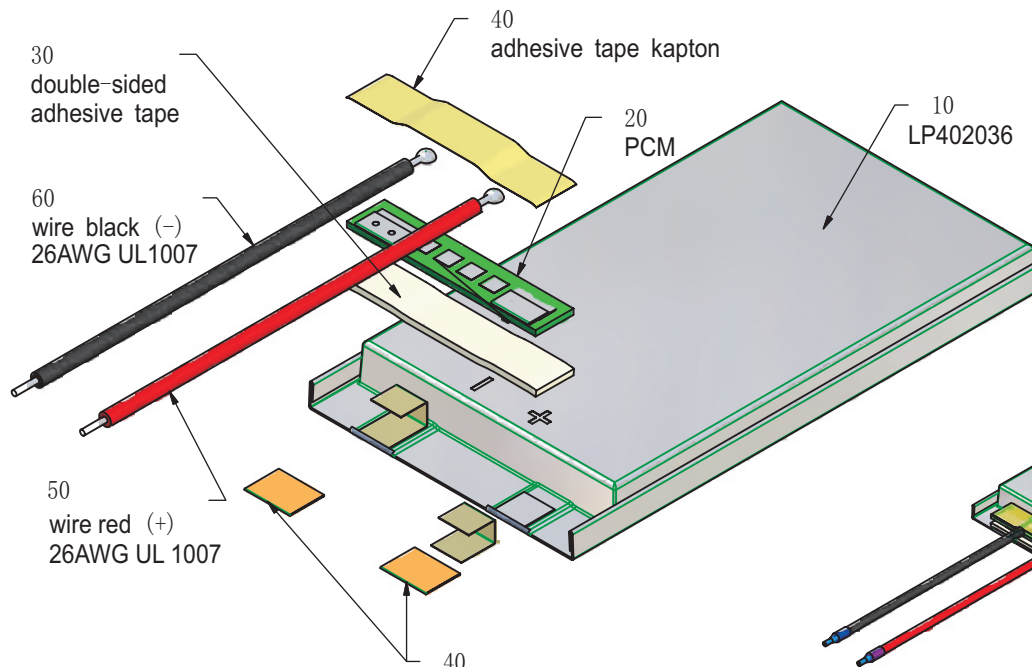
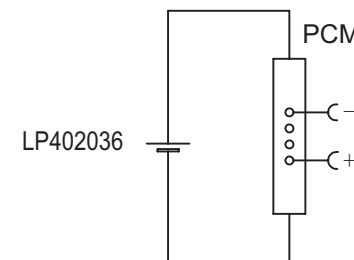
Ambient conditions

Temperature range
Charge: 0 to $+45^\circ\text{C}$
Discharge: -20 to $+60^\circ\text{C}$
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		Material	
Mae in mm All dimensions in mm		Freimatoleranzen General tolerances		Date	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.		up to 6 over 6 up to 30 over 30 up to 100 over 100		Name	
Proprietary data, company confidential, all rights reserved.		Benennung / Designation		Zchg. / Dwg. Nr.	
		LP402036		3	
		Origin:		FD_2573_10	

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