

Specification

Lithium Polymer Battery Pack (LP303040) 320mAh 3.7V with Protection Circuit Module (PCM)
 This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by AKYGA

Mechanical Characteristics

Type number: LP303040
 Designation IEC system: Lithium polymer battery pack
 Length: $40 \pm 0.4\text{mm}$
 Width: $30 \pm 0.4\text{mm}$
 Thickness: $3.0 \pm 0.2\text{mm}$
 Cable: $150 \pm 3.0\text{mm}$ (28AWG UL 1007)
 Weight: appr. 7.5g
 Connector: JST 2.54 male & female connectors

Electrical Specification

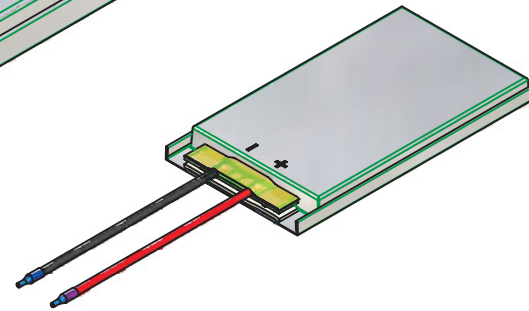
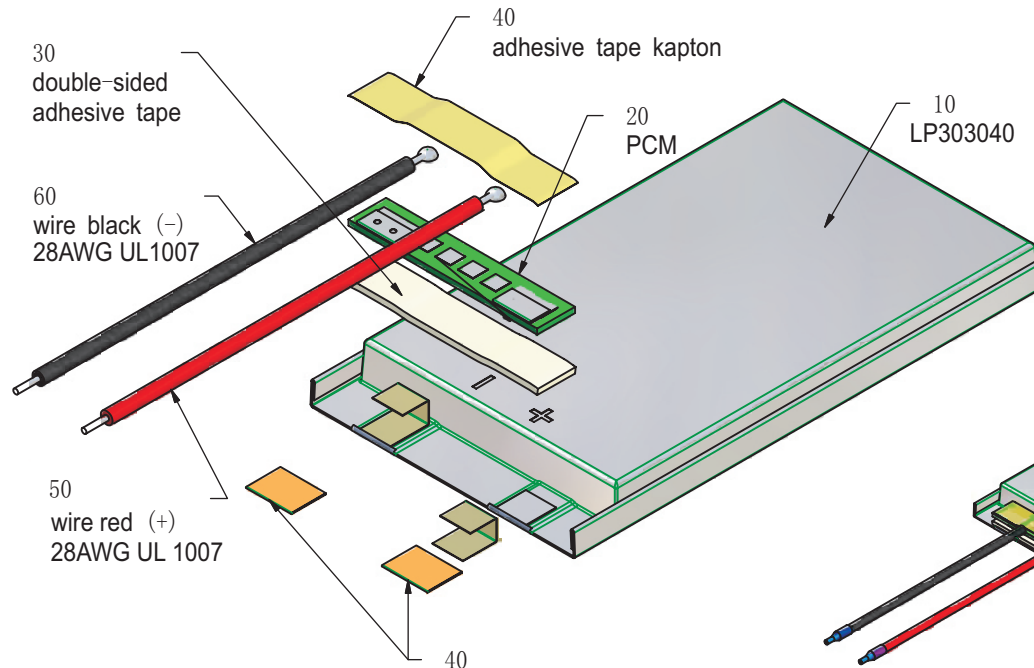
Rated capacity: 320mAh min, 370mAh typ.
 Nominal voltage: 3.7V
 Max. operating voltage range: 3.0V to 4.2V
 Charge voltage: $4.2 \pm 50\text{mV}$
 Initial charge current: Standard charge: 64mA
 Rapid charge: 160mA
 Charging cut-off (A or B)
 A) By time: Standard charge: 5 hours
 Rapid charge: 2 hours
 B) By min. current: 6.4mA
 Max continuous discharge current: 320mA
 Exp. cycle life: >500 cycles >70% of initial cap. (0.5C/0.5C)
 Internal impedance (1kHz): approx 82mOhm
 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

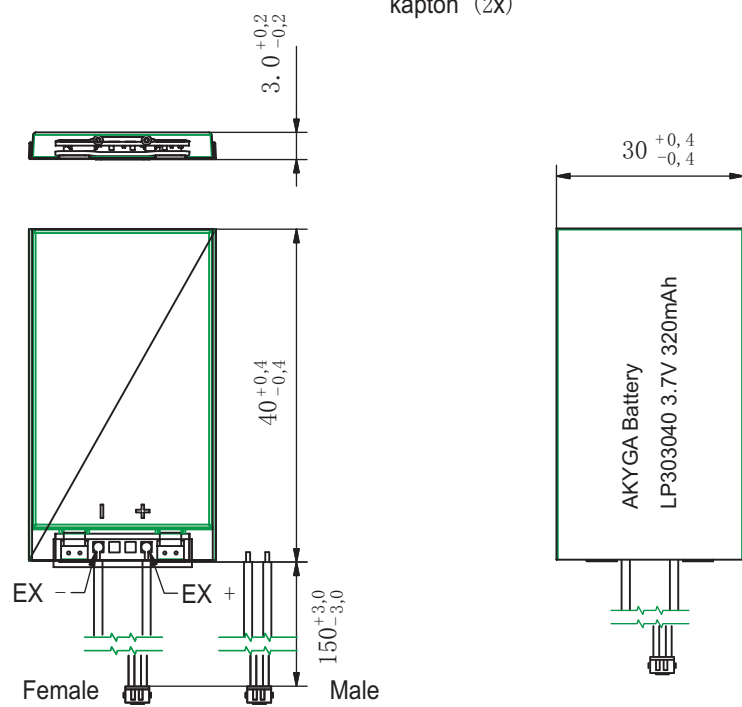
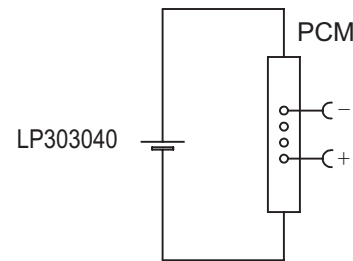
Temperature range
 Charge: 0 to $+45^\circ\text{C}$
 Discharge: -20 to $+60^\circ\text{C}$
 Charge retention/Storage: 1 year at -20 to 20°C >70%
 3 month at -20 to 45°C > 70%
 1 month at -20 to 60°C > 70%


Safety

Please follow handing and Safety Precautions Poliflex.



Circuit diagram



Index		Alteration		Date	Name
Projection:		Diese Mae werden besonders geprüf This dimensions are considered inspectable		Material 6645175 6819	
Mae in mm All dimensions in mm	Freimatoleranzen Generaltolerances	Date	Name		
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.	up to 6 : 0,1 over 6 up to 30 : 0,2	Erst./Orig. 19.12.2013	Xie Qingfang		
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 : 0,3 over 100 : 0,5	Gepr./Check. 19.12.2013	Guo Daxia		
		Benennung/Designation LP303040		3	Zchg. / Dwg. Nr. FD_2566_28
		Origin:		Index	