

Specification

Lithium Polymer Battery Pack (LP503759) 1350mAh 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: LP503759
Designation IEC system: Lithium polymer battery pack
Length: $59 \pm 0.4\text{mm}$
Width: $37 \pm 0.4\text{mm}$
Thickness: $5.0 \pm 0.2\text{mm}$
Cable: $150 \pm 3.0\text{mm}$ (26AWG UL 1007)
Weight: appr. 28.0g
Connector: JST 2.54 male & female connectors

Electrical Specification

Rated capacity: 1350mAh min, 1380mAh 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: 675mA
Rapid charge: 1350mA
Charging cut-off (A or B)
A) By time: Standard charge: 7 hours
Rapid charge: 4 hours
B) By min. current: 27.0mA
Max continuous discharge current: 1350mA
Exp. cycle life: >500 cycles >70% 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 $2.9\text{V} \pm 100\text{mV}$)

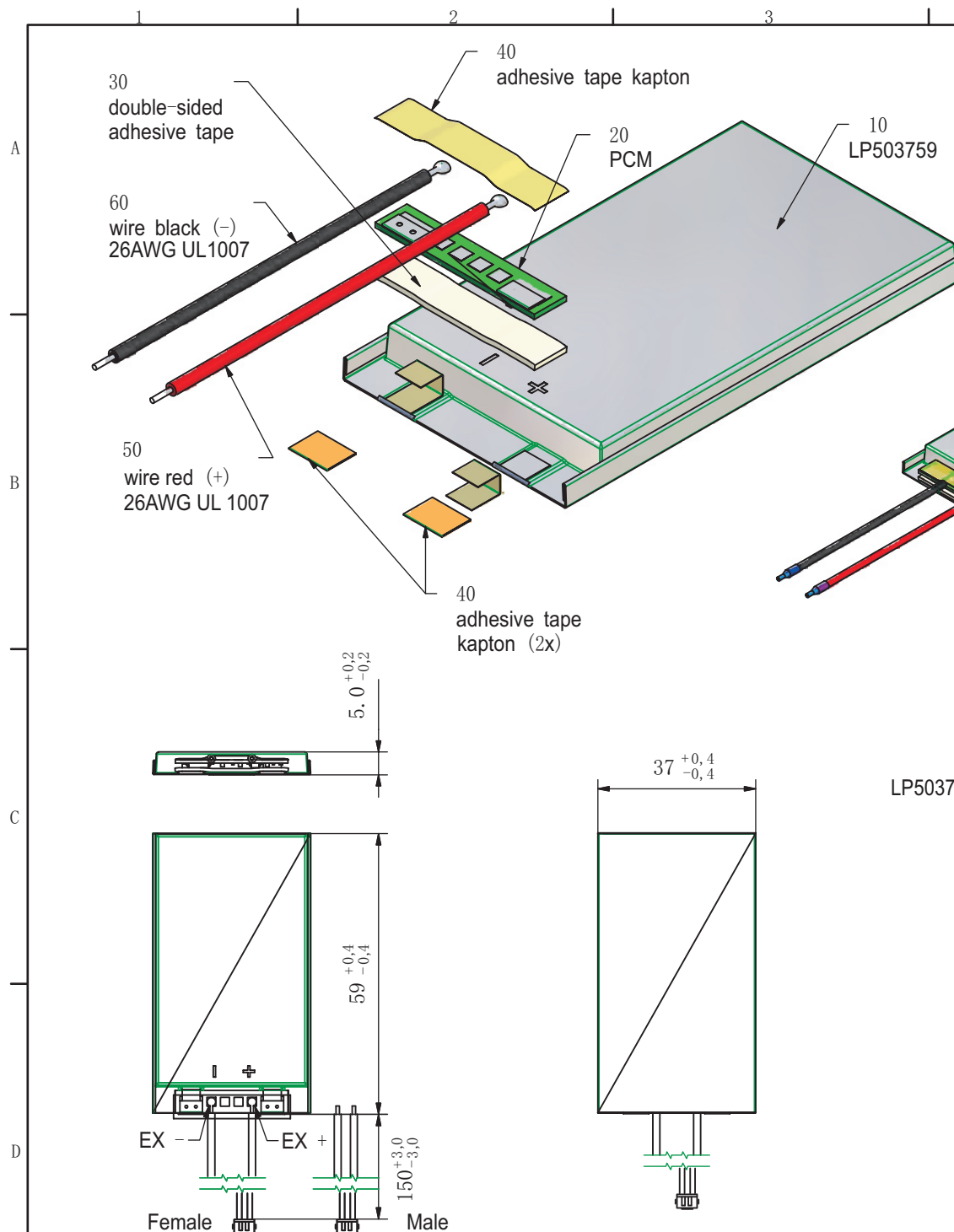
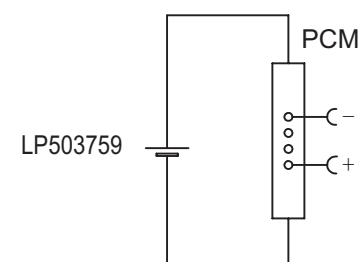
Ambient conditions

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 gepruft This dimensions are considered inspectable		Material	
Mae in mm All dimensions in mm		Date		Name	
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		Benennung/Designation		LP503759	
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