

# Specification

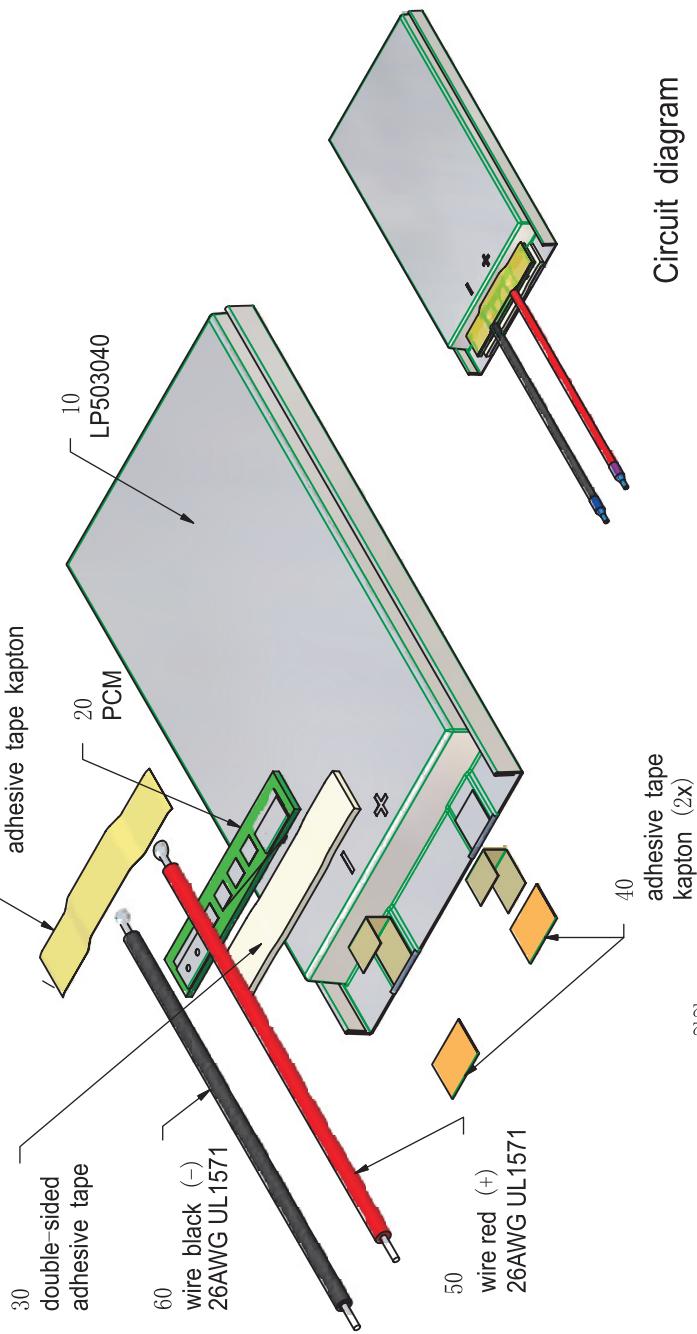
Lithium Polymer Battery Pack LP503040 560mAh 3.7V with Protection Circuit Module (PCM)  
This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by Akyga Battery

## Mechanical Characteristics

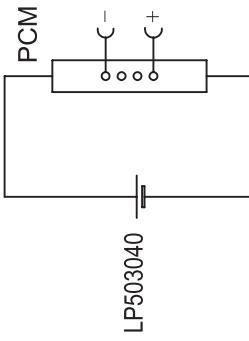
Type number: LP503040  
Designation IEC system: Lithium polymer battery pack  
Length: 40 ± 0.4mm  
Width: 30 ± 0.4mm  
Thickness: 5.0 ± 0.2mm  
Cable: 100.0 ± 3mm (26AWG UL1571)  
Weight approx: 12.0g

## Electrical Specification

Rated capacity: 560mAh min, 570mAh typ.  
Nominal voltage: 3.7V  
Max. operating voltage range: 3.0V to 4.2V  
Charge voltage: 4.2 ± 50mV  
Initial charge current: Standard charge: 112mA  
Rapid charge: 280mA  
Charging cut-off (A or B)  
A) By time: Standard charge: 5 hours  
B) By min. current: 1.2mA  
Max discharge current: 560mA  
Internal impedance (1kHz): approx 82mOhm  
Exp. cycle life: >500 cycles >80% of initial cap. (0.5C/0.5C)  
Cell protection:  
Overcharge detection: 4.325 ± 25mV  
(0.5 to 2.0 sec. delay, resume 4.075 ± 50mV)  
Overdischarge detection: 3.00V ± 80mV  
(6.25 to 250msec. delay, resume 2.9V ± 100mV)



Circuit diagram



## Ambient conditions

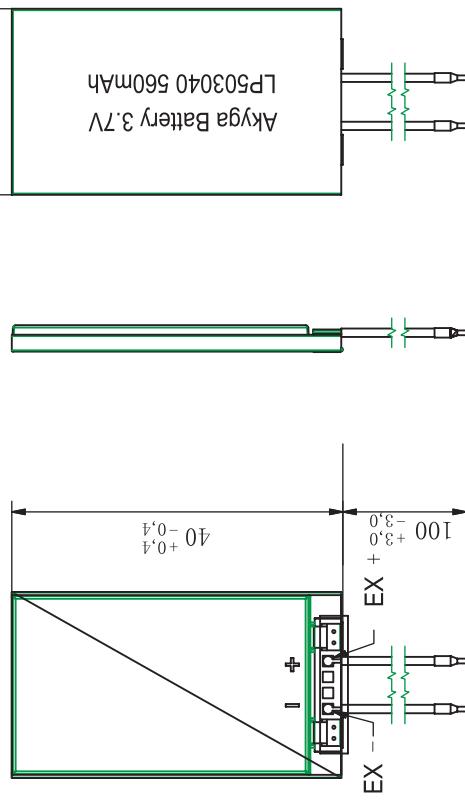
Temperature range  
Charge: 0 to +45°C  
Discharge: -20 to +60°C  
Charge retention/storage: 1 year at -20 to 20°C >70%  
3 month at -20 to 45°C >70%  
1 month at -20 to 60°C >70%

## Safety

Please follow handling and Safety Precautions Poliflex.

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					6645178 5192	Akyga®

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