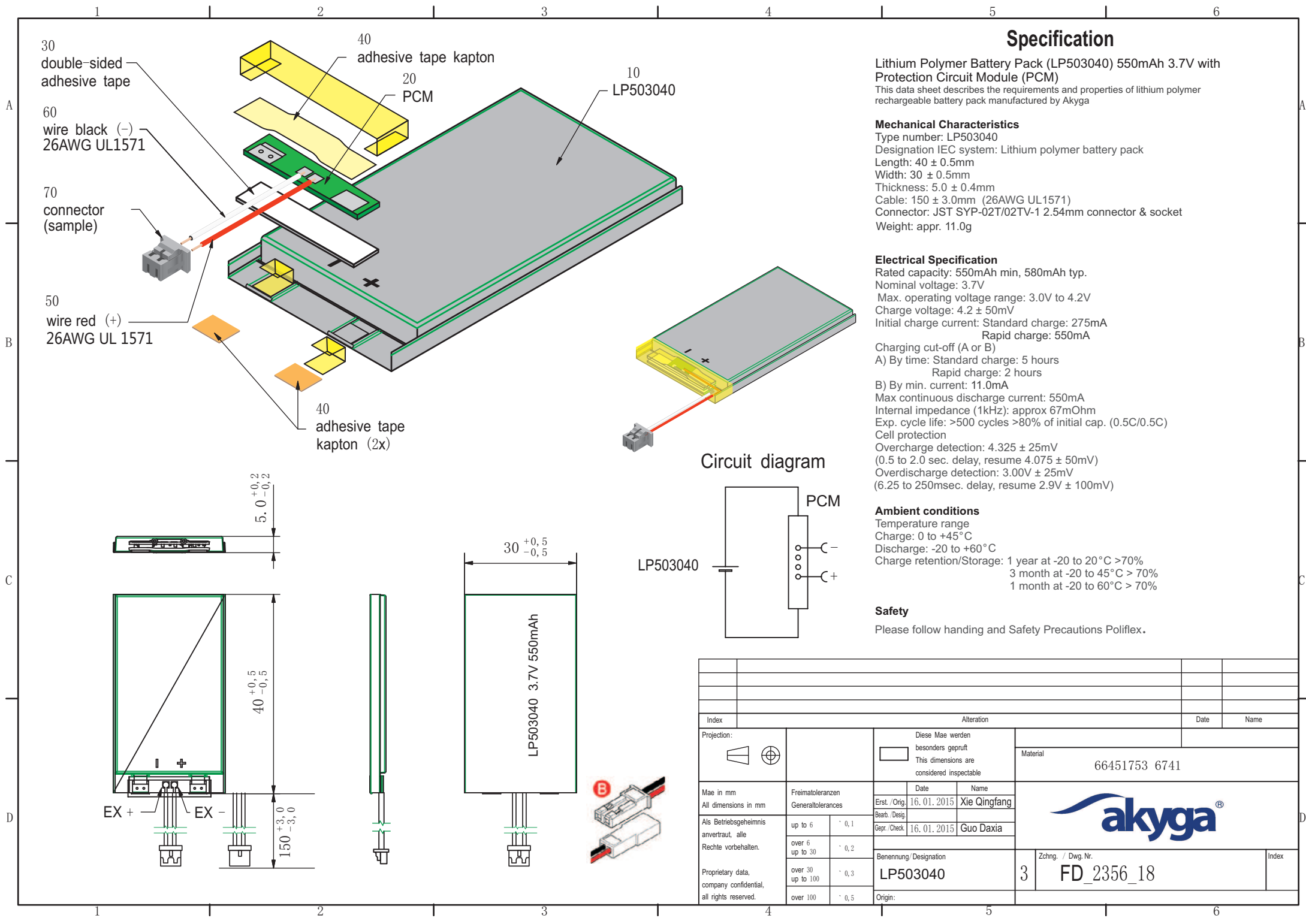




Specification

Lithium Polymer Battery Pack (LP503040) 550mAh 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: LP503040

Designation IEC system: Lithium polymer battery pack

Length: 40 ± 0.5mm

Width: 30 ± 0.5mm

Thickness: 5.0 ± 0.4mm

Cable: 150 ± 3.0mm (26AWG UL1571)

Connector: JST SYP-02T/02TV-1 2.54mm connector & socket

Weight: appr. 11.0g

Electrical Specification

Rated capacity: 550mAh min, 580mAh typ.

Nominal voltage: 3.7V

Max. operating voltage range: 3.0V to 4.2V

Charge voltage: 4.2 ± 50mV

Initial charge current: Standard charge: 275mA

Rapid charge: 550mA

Charging cut-off (A or B)

A) By time: Standard charge: 5 hours

Rapid charge: 2 hours

B) By min. current: 11.0mA

Max continuous discharge current: 550mA

Internal impedance (1kHz): approx 67mOhm

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 ± 25mV

(6.25 to 250msec. delay, resume 2.9V ± 100mV)

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%

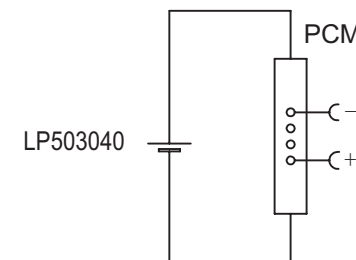
3 month at -20 to 45°C > 70%

1 month at -20 to 60°C > 70%

Safety

Please follow handing and Safety Precautions Poliflex.

Circuit diagram



Index		Alteration		Date	Name
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