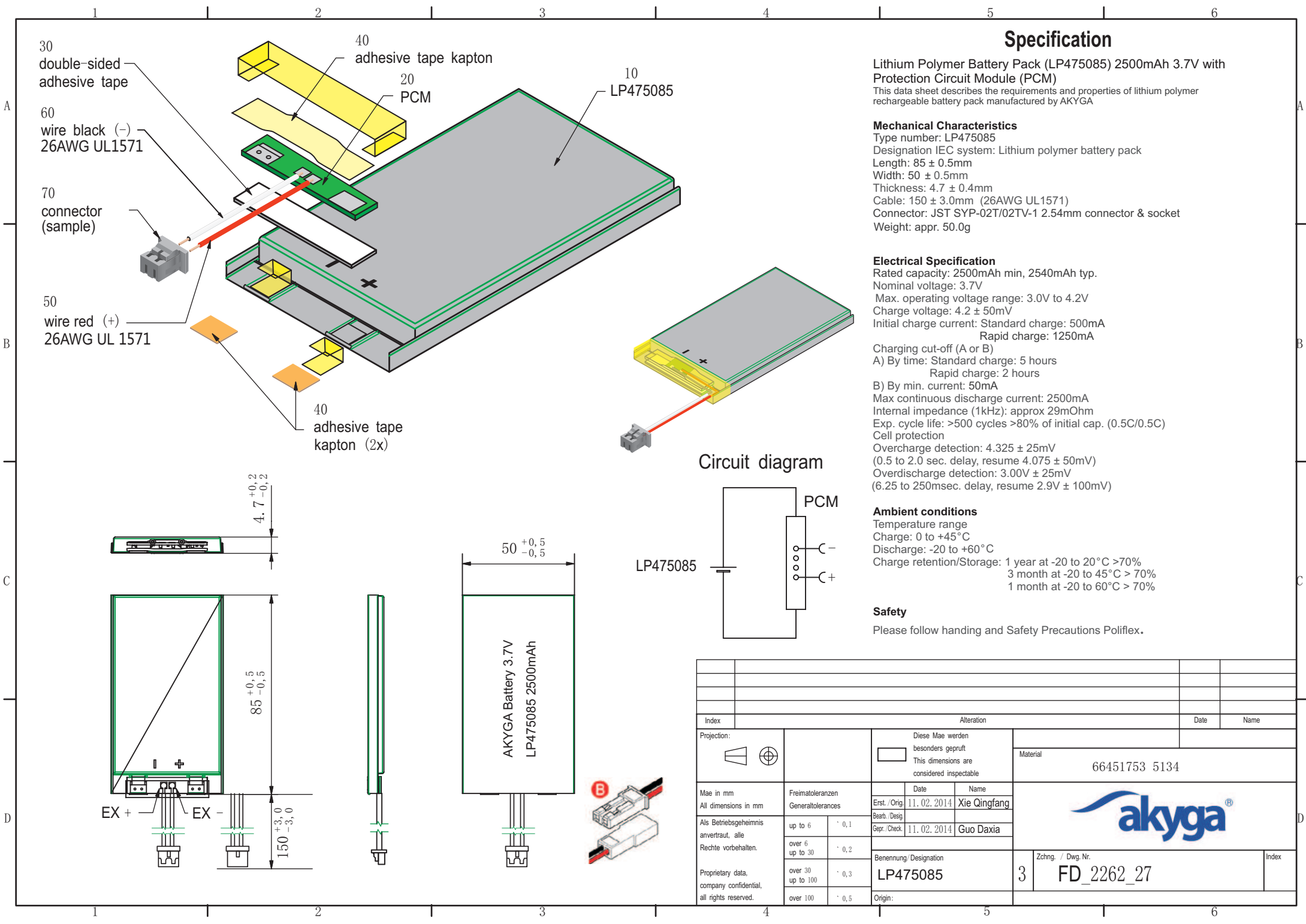




Specification

Lithium Polymer Battery Pack (LP475085) 2500mAh 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: LP475085
Designation IEC system: Lithium polymer battery pack
Length: 85 ± 0.5mm
Width: 50 ± 0.5mm
Thickness: 4.7 ± 0.4mm
Cable: 150 ± 3.0mm (26AWG UL1571)
Connector: JST SYP-02T/02TV-1 2.54mm connector & socket
Weight: appr. 50.0g

Electrical Specification

Rated capacity: 2500mAh min, 2540mAh typ.
Nominal voltage: 3.7V
Max. operating voltage range: 3.0V to 4.2V
Charge voltage: 4.2 ± 50mV
Initial charge current: Standard charge: 500mA
Rapid charge: 1250mA
Charging cut-off (A or B)
A) By time: Standard charge: 5 hours
Rapid charge: 2 hours
B) By min. current: 50mA
Max continuous discharge current: 2500mA
Internal impedance (1kHz): approx 29mOhm
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)

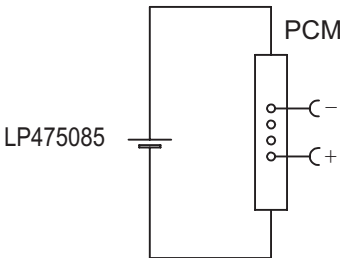
Ambient conditions

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
Projection:		Diese Mae werden besonders geprüft This dimensions are considered inspectable		Material		66451753 5134	
							
Mae in mm	Freimatoleranzen		Date	Name			
All dimensions in mm	Generaltoleranzen	Erst./Orig	11.02.2014	Xie Qingfang			
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.	up to 6 ` 0,1	Bearb./Design					
	over 6 up to 30 ` 0,2	Gepr./Check	11.02.2014	Guo Daxia			
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 ` 0,3	Benennung/ Designation LP475085			3	Zehng. / Dwg. Nr. FD_2262_27	Index
	over 100 ` 0,5	Origin:					