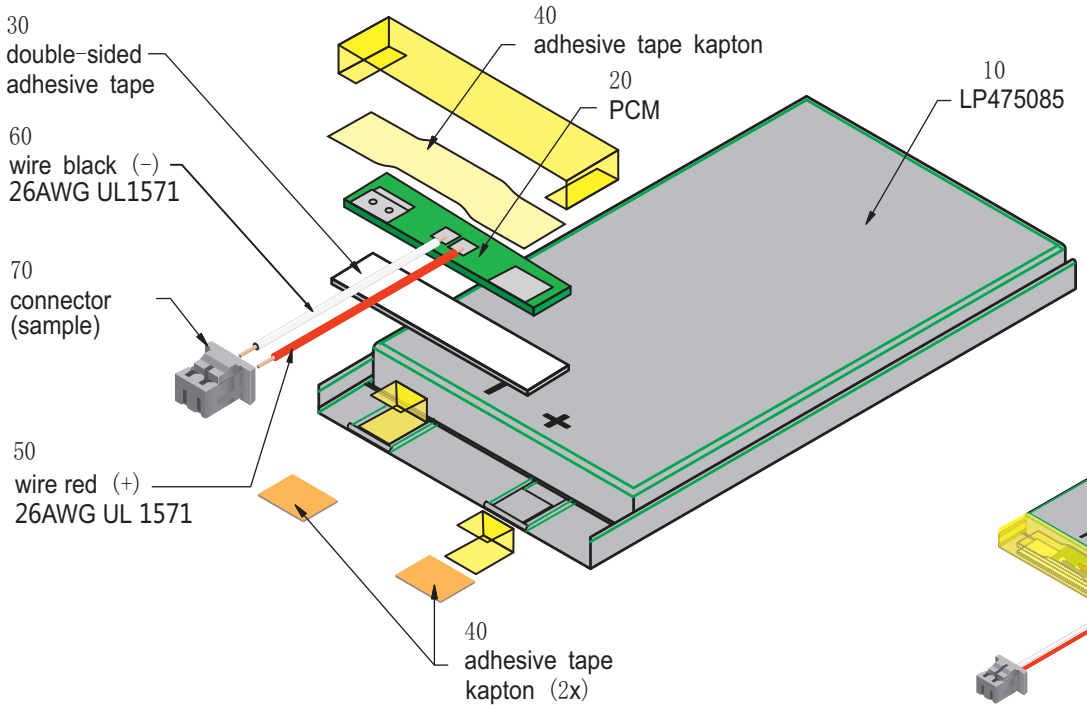
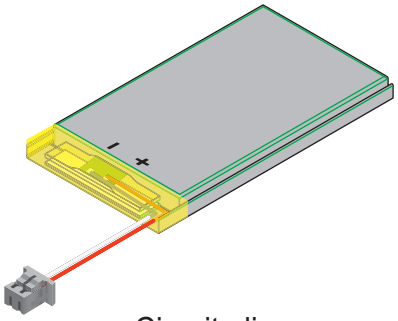




Specification

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

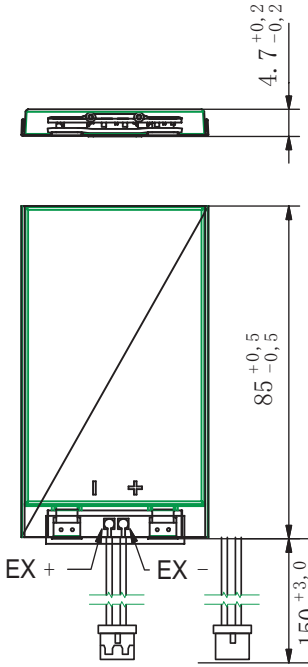
Rated capacity: 2500mAh min, 2540mAh typ.
Nominal voltage: 3.7V
Max. operating voltage range: 3.0V to 4.2V
Charge voltage: 4.2 ± 50mV
Initial charge current: Standard charge: 500mA
Rapid charge: 1250mA
Charging cut-off (A or B)
A) By time: Standard charge: 5 hours
Rapid charge: 2 hours
B) By min. current: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

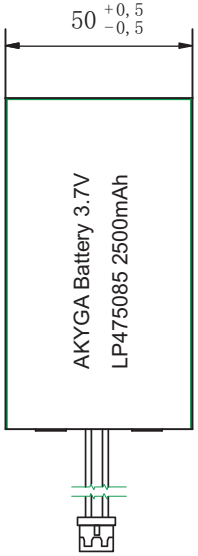
Temperature range
Charge: 0 to +45°C
Discharge: -20 to +60°C
Charge retention/Storage: 1 year at -20 to 20°C >70%
3 month at -20 to 45°C > 70%
1 month at -20 to 60°C > 70%

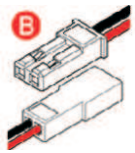
Safety

Please follow handing and Safety Precautions Poliflex.

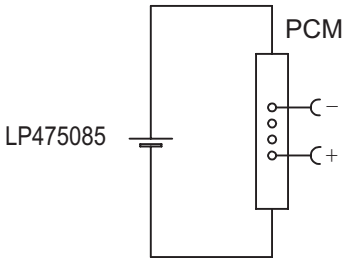








Circuit diagram



Index	Alteration	Date	Name

Projection:

Diese Mae werden besonders gepruft
This dimensions are considered inspectable

Material: 66451753 5134

Mae in mm
All dimensions in mm

Freimatoleranzen
Generaltolerances

up to 6	` 0,1
over 6 up to 30	` 0,2
over 30 up to 100	` 0,3
over 100	` 0,5

	Date	Name
Erst./Orig.	11.02.2014	Xie Qingfang
Bearb./Desig.		
Gepr./Check.	11.02.2014	Guo Daxia

Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.

Proprietary data, company confidential, all rights reserved.

Benennung/Designation: LP475085

Origin:

Zchng. / Dwg. Nr.: FD_2262_27

Index: 3