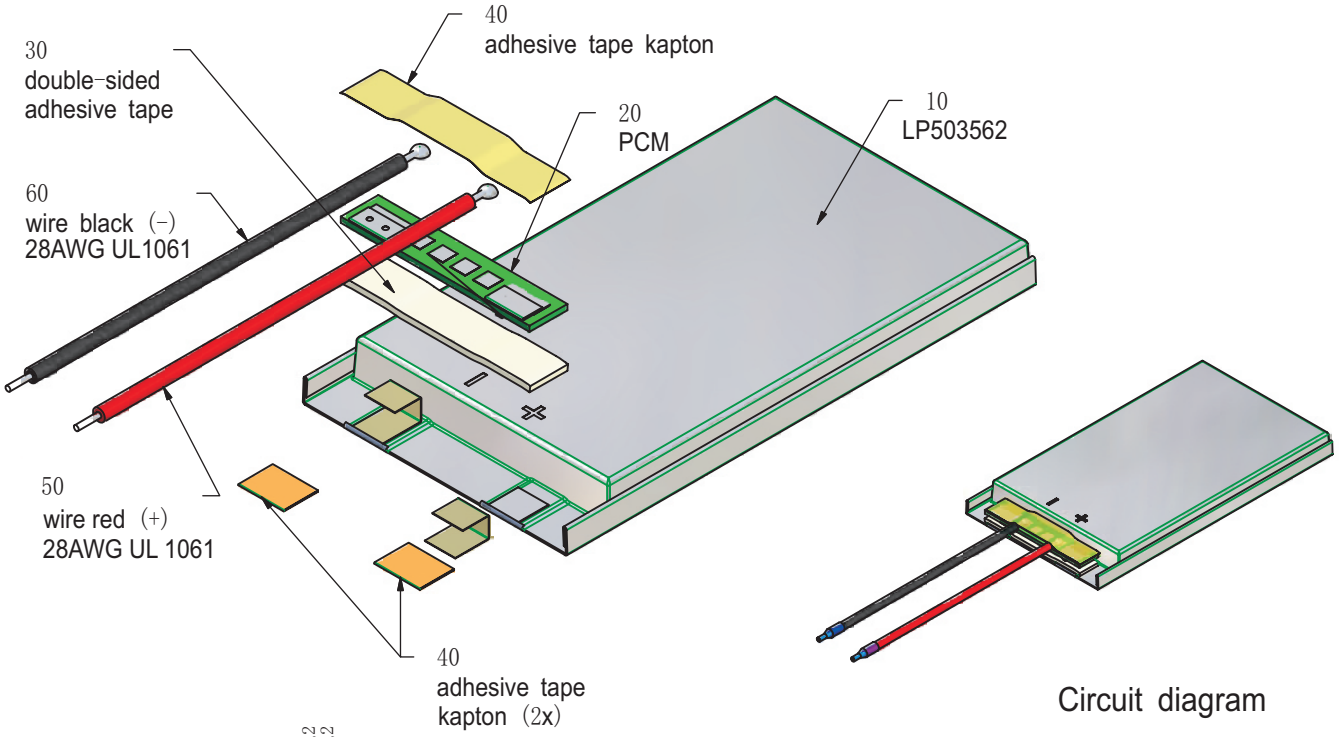
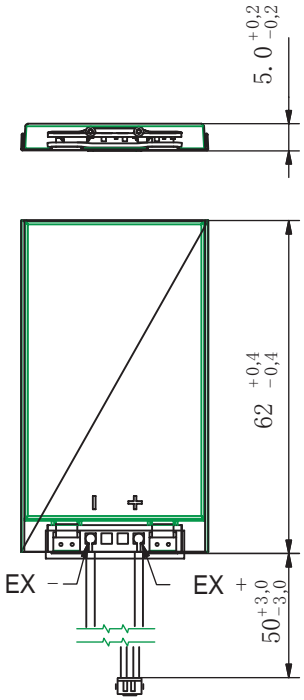
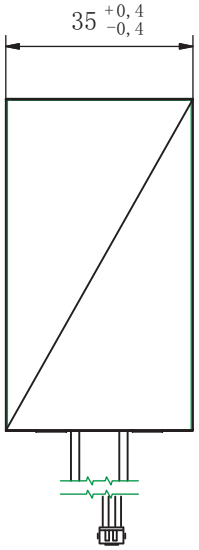
Specification

Lithium Polymer Battery Pack (LP503562) 1300mAh 3.7V with Protection Circuit Module (PCM)

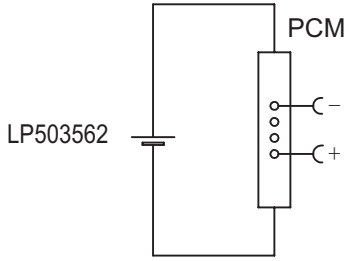
This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by AKYGA







Circuit diagram



Mechanical Characteristics

Type number: LP503562
Designation IEC system: Lithium polymer battery pack
Length: 62 ± 0.4mm
Width: 35 ± 0.4mm
Thickness: 5.0 ± 0.2mm
Cable: 50 ± 3.0mm (28AWG UL 1061)
Weight: appr. 22.0g
Connector: Molex 87439-0200/87421-0000

Electrical Specification

Rated capacity: 1250mAh min, 1300mAh typ.
Nominal voltage: 3.7V
Max. operating voltage range: 3.0V to 4.2V
Charge voltage: 4.2 ± 50mV
Initial charge current: Standard charge: 600mA
Rapid charge: 1300mA
Charging cut-off (A or B)
A) By time: Standard charge: 7 hours
Rapid charge: 4 hours
B) By min. current: 26.0mA
Max continuous discharge current: 1300mA
Exp. cycle life: >500 cycles >70% of initial cap. (0.5C/0.5C)
Internal impedance (1kHz): approx 120mOhm
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.

Index	Alteration	Date	Name

Projection:

Diese Mae werden besonders gepruft
This dimensions are considered inspectable

Material: 6645164 6576

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

Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.

Proprietary data, company confidential, all rights reserved.

	Date	Name
Erst. /Orig.	14. 08. 2013	Xie Qingfang
Bearb. /Desig.		
Gepr. /Check.	14. 08. 2013	Guo Daxia

akyga®

Benennung/ Designation: LP503562

3

Zchng. / Dwg. Nr.: FD_2542_35

Index

Origin: