

Specification

Lithium Polymer Battery Pack (LP603030) 470mAh 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: LP603030
Designation IEC system: Lithium polymer battery pack
Length: $30 \pm 0.4\text{mm}$
Width: $30 \pm 0.4\text{mm}$
Thickness: $6.0 \pm 0.2\text{mm}$
Cable: $50.0 \pm 3\text{mm}$ (28AWG UL 1007)
Weight approx: 9.0g

Electrical Specification

Rated capacity: 470mAh min, 500mAh typ.
Nominal voltage: 3.7V
Max. operating voltage range: 3.0V to 4.2V
Charge voltage: $4.2 \pm 50\text{mV}$
Initial charge current: Standard charge: 235mA
Rapid charge: 4700mA
Charging cut-off (A or B)
A) By time: Standard charge: 7 hours
Rapid charge: 4 hours
B) By min. current: 9.4mA
Max continuous discharge current: 470mA
Internal impedance (1kHz): approx 70mOhm
Exp. cycle life: >500 cycles >80% of initial cap. (0.5C/0.5C)
Cell protection
Overcharge detection: $4.325 \pm 25\text{mV}$
(0.5 to 2.0 sec. delay, resume $4.075 \pm 50\text{mV}$)
Overdischarge detection: $2.50\text{V} \pm 80\text{mV}$
(6.25 to 250msec. delay, resume $2.9\text{V} \pm 100\text{mV}$)

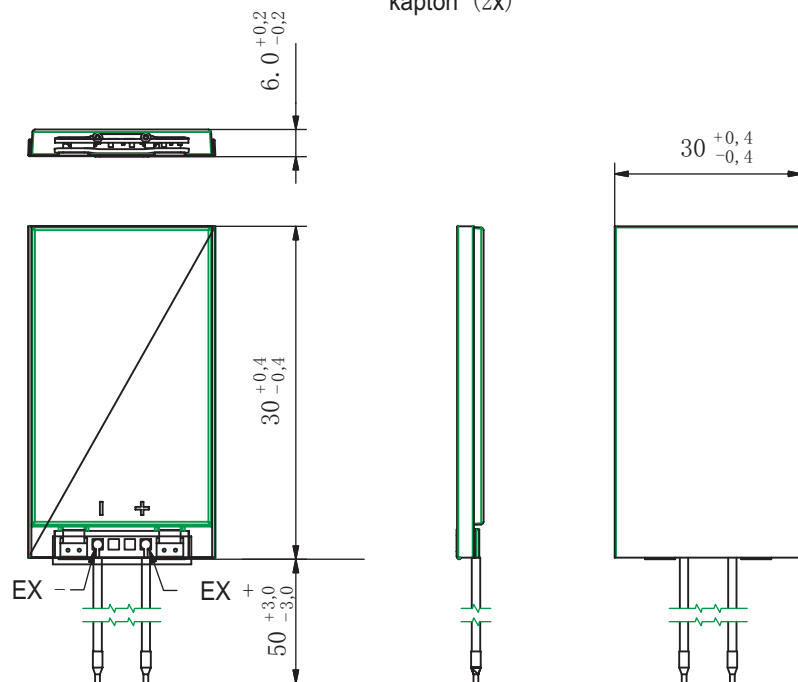
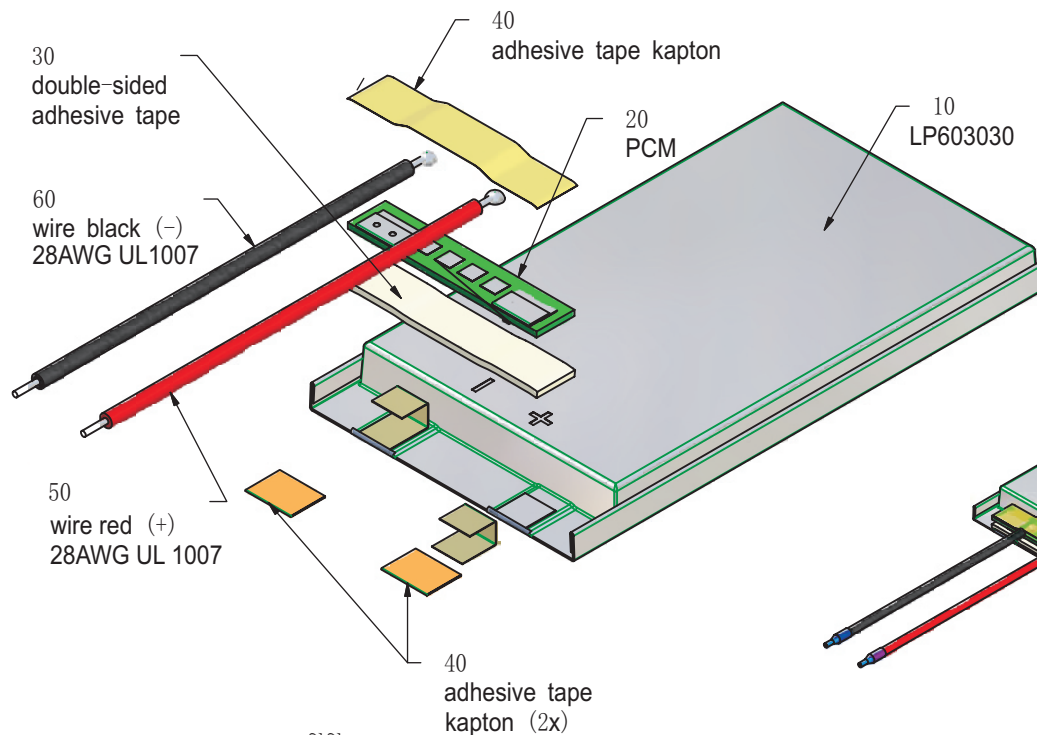
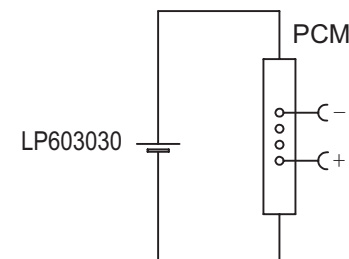
Ambient conditions

Temperature range
Charge: 0 to $+45^\circ\text{C}$
Discharge: -20 to $+60^\circ\text{C}$
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.

Circuit diagram



Index		Alteration		Date	Name
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Proprietary data, company confidential, all rights reserved.		Benennung/Designation		Zchnng. / Dwg. Nr.	
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