

Specification

Lithium Polymer Battery Pack (LP7035138) 4000mAh 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: LP7035138
Designation IEC system: Lithium polymer battery pack
Length: $138 \pm 0.4\text{mm}$
Width: $35 \pm 0.4\text{mm}$
Thickness: $7.0 \pm 0.2\text{mm}$
Cable: $150 \pm 3.0\text{mm}$ (26AWG UL 1007)
Weight: appr. 75.0g
Connector: JST 2.54 male & female connectors

Electrical Specification

Rated capacity: 4000mAh min, 4020mAh 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: 2000mA
Rapid charge: 4000mA
Charging cut-off (A or B)
A) By time: Standard charge: 7 hours
Rapid charge: 4 hours
B) By min. current: 80.0mA
Max continuous discharge current: 4000mA
Exp. cycle life: >500 cycles >70% of initial cap. (0.5C/0.5C)
Internal impedance (1kHz): approx 25mOhm
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: $3.00\text{V} \pm 25\text{mV}$
(6.25 to 250msec. delay, resume $2.9\text{V} \pm 100\text{mV}$)

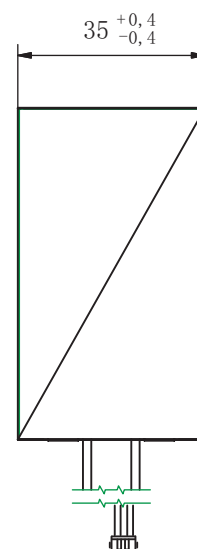
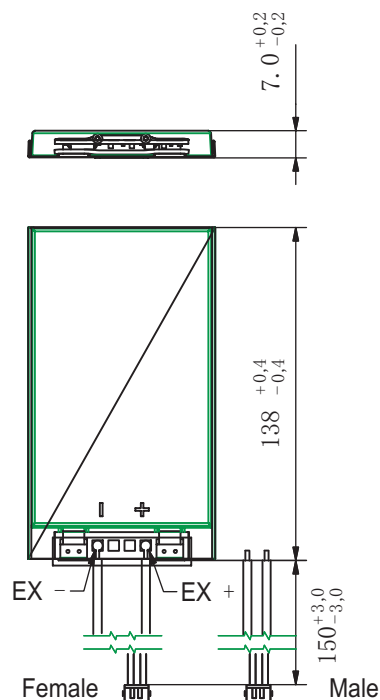
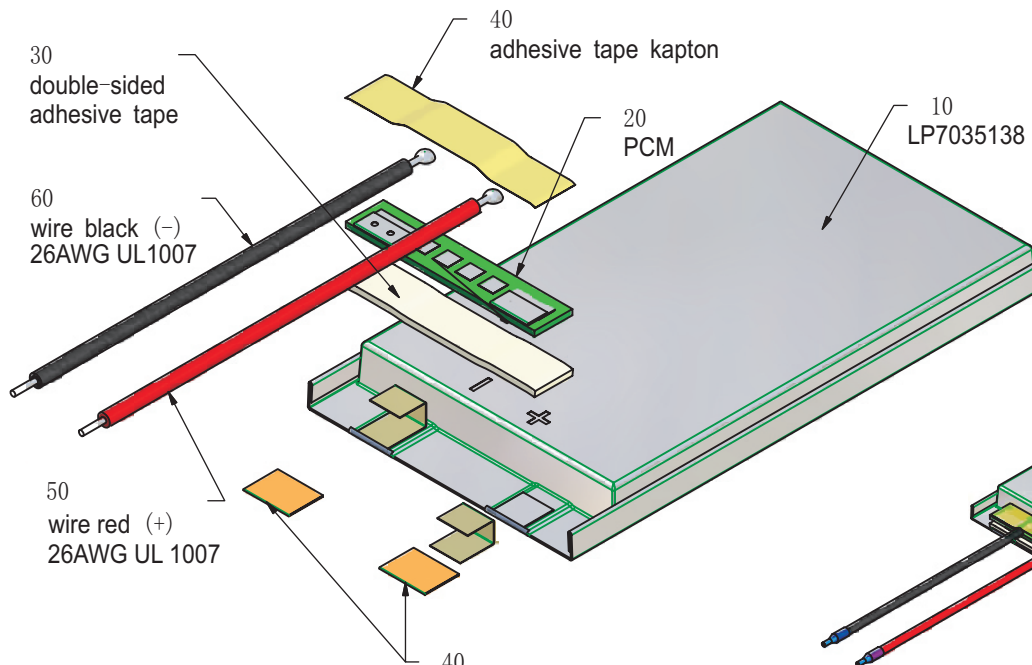
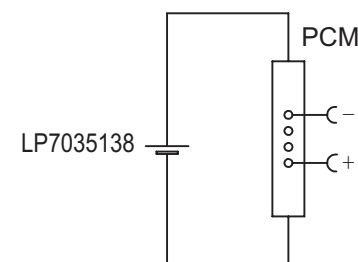
Ambient conditions

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
Projection:		Diese Mae werden besonders geprüf		Material	
Mae in mm		Freimatoleranzen		Date	
All dimensions in mm		Generaltolerances		Name	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.		up to 6		Erst./Orig.	
Proprietary data, company confidential, all rights reserved.		over 6		Beab./Desig	
		up to 30		Gepr./Check	
		over 30		Benennung/Designation	
		up to 100		LP7035138	
		over 100		Origin:	
				Zchg. / Dwg. Nr.	
				3	
				FD_2566_19	
				Index	

akyga®