

Specification

Lithium Polymer Battery Pack LP642528 400mAh 3.7V with Protection Circuit Module (PCM)
This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by LiPol Battery Co., Ltd - China

Mechanical Characteristics

Cell	▶ LP642528
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 8g
Connector	▶ JST ACHR-02V-S(B)

Electrical Specification

Rated Capacity	▶ 400mAh min, 410mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 1.48Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V \pm 50mV
Max. Charge Current	▶ 200mA
Max. Continuous Discharge Current	▶ 400mA

Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <200m Ω
Expected Cycle Life @ (0.5C/0.5C) @ 23 \pm 5°C	▶ 500 cycles \geq 80%

Cell Protection

Overcharge Detection	▶ 4.275 \pm 50mV (0.7 to 1.3sec. delay, release 4.275V \pm 50mV)
Overdischarge Detection	▶ 2.75V \pm 50mV (14 to 26msec. delay, resume 2.50V \pm 50mV)
Overcurrent Detection	▶ 2A to 4.5A (8 to 16msec. delay)

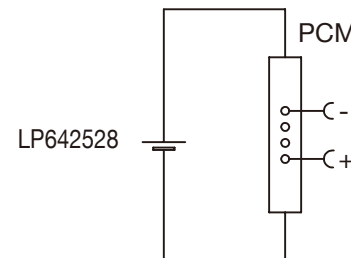
Ambient Conditions

Charge Temp. Range	▶ 0 to +45°C
Discharge Temp. Range	▶ -20 to +60°C
Storage Temp. Range	▶ 1 year at -20 to +30°C >70%
Overcurrent Detection	▶ 3 moths at -20 to +45°C >70%
Humidity	▶ 1 month at -20 to +60°C >70%
	▶ 65 \pm 20%RH

Environmental and Safety

Please follow LiPol Handling and Safety Precautions for Lithium Polymer Battery. This battery meets the requirements of Battery Directives, and the battery parts are IEC 62133 & RoHS-Compliant. For more safety precautions and performance standards, please go to www.lipolbattery.com/support.html

Circuit diagram



Mae in mm All dimensions in mm	Freimatoleranzen Generaltolerances	Date Erst. / Orig	Name Xie Qingfang	* LiPol Battery	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 up to 30 over 6 up to 30 over 30 up to 100 over 100	Gepr./Check	Guo Daxia		
Proprietary data, company confidential, all rights reserved.	0.1 0.2 0.3 0.5	Benennung/ Designation	LP642528	Zchng. / Dwg. Nr. 3 FD_2528_67	Index
		Origin:		support@lipolbattery.com	www.LiPolBattery.com