

## Specification

Lithium Polymer Battery Pack LP502020 150mAh 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	▶ LP502020
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 3g

### Electrical Specification

Rated Capacity	▶ 150mAh min, 155mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 0.555Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 75mA
Standard Charge Current	▶ 30mA
Max. Continuous Discharge Current	▶ 150mA
Standard Discharge Current	▶ 75mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <200mΩ
Expected Cycle Life @ (0.5C/0.5C) @ 23±5°C	▶ 500 cycles ≥ 80%

### Cell Protection

Overcharge Detection	▶ 4.275 ±50mV (0.7 to 1.3sec. delay, release 4.275V ±50mV)
Overdischarge Detection	▶ 2.75V ±50mV (14 to 26msec. delay, resume 2.50V ±50mV)
Overcurrent Detection	▶ 1A to 1.5A (8 to 16msec. delay)

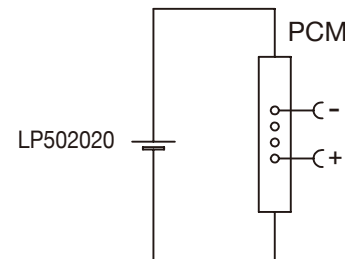
### Ambient Conditions

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%
	▶ 3 months at -20 to +45°C >70%
	▶ 1 month at -20 to +60°C >70%
Humidity	▶ 65 ±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](http://www.lipolbattery.com/support.html)

Circuit Diagram



Mae in mm All dimensions in mm	Freimtoleranzen General tolerances	Date Erst. / Orig	Name Xie Qingfang	<b>+ LiPol Battery</b>	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 over 6 up to 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 LP502020	Zchnng. / Dwg. Nr. 3 FD_2020_50	Index	
		Origin:	support@lipolbattery.com	www.LiPolBattery.com	