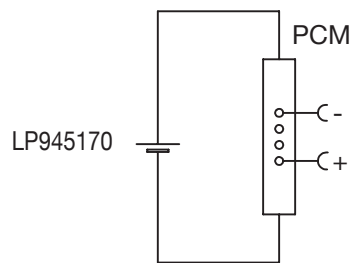


Circuit diagram



## Specification

Lithium Polymer Battery Pack LP945170 4000mAh 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 ▶ LP945170
- PCM ▶ Yes
- NTC ▶ No
- Configuration ▶ 1S1P
- Weight ▶ appr. 80g
- Connector ▶ JST PHR-2(A)

### Electrical Specification

- Rated Capacity ▶ 4000mAh min, 4030mAh typ.
- Nominal Voltage ▶ 3.7V
- Wat-Hour Rating ▶ 14.8Wh
- Max. Operating Voltage Range ▶ 2.75V to 4.20V
- Max. Charge Voltage ▶ 4.2V ±50mV
- Max. Charge Current ▶ 2000mA
- Discharge Current ▶ 3000mA
- Internal Impedance ▶ 2.75V
- Expected Cycle Life ▶ <200mΩ
- @ (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 ▶ 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 ±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)

Mae in mm All dimensions in mm	Freimatoleranzen Generaltolerances	Date 07.10.2019	Name Xie Qingfang	<b>LiPoL Battery</b>
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 : 0,1 over 6 up to 30 : 0,2	Erst. / Orig 07.10.2019	Gepr./Check Guo Daxia	
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 : 0,3 over 100 : 0,5	Benennung/ Designation LP945170		Zchng. / Dwg. Nr. 3 FD_2345_67
		Origin: support@lipolbattery.com		www.LiPoLBattery.com