

30  
double-sided  
adhesive tape

40  
adhesive tape kapton

20  
PCM

10  
LP4639100

60  
wire black (-)  
AWG24 UL1007

50  
wire red (+)  
AWG24 UL1007

40  
adhesive tape  
kapton (2x)

4,6<sup>+0,3</sup>  
-0,3

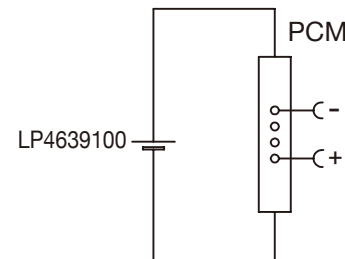
39<sup>+0,5</sup>  
-0,5

100<sup>+1,0</sup>  
-1,0

50<sup>+3,0</sup>  
-3,0

LiPo Battery 3.7V  
LP4639100 2000mAh

### Circuit Diagram



## Specification

Lithium Polymer Battery Pack LP4639100 2000mAh 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	▶ LP4639100
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 40g

### Electrical Specification

Rated Capacity	▶ 2000mAh min, 2030mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 7.4Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ± 50mV
Max. Charge Current	▶ 1000mA
Max. Continuous Discharge Current	▶ 2000mA
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	▶ 3A 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%
	▶ 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)

Mae in mm All dimensions in mm	Freimatoleranzen Generaltoleranzen	Date 17.06.2019	Name Xie Qingfang	<b>LiPol Battery</b>	Index
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten	up to 6 · 0,1 over 6 up to 30 · 0,2	Erst. / Orig 17.06.2019	Gepr./check Guo Daxia		
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 · 0,3 over 100 · 0,5	Benennung/ Designation LP4639100		Zchnng. / Dwg. Nr. 3 FD_1201_20	
		Origin: support@lipolbattery.com		www.LiPolBattery.com	