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**

<table>
<thead>
<tr>
<th>Cell</th>
<th>PCM</th>
<th>NTC</th>
<th>Configuration</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>1S1P</td>
<td>appr. 40g</td>
</tr>
</tbody>
</table>

**Electrical Specification**

<table>
<thead>
<tr>
<th>Rated Capacity</th>
<th>Nominal Voltage</th>
<th>Wat-Hour Rating</th>
<th>Max. Operating Voltage Range</th>
<th>Max. Charge Voltage</th>
<th>Max. Charge Current</th>
<th>Max. Continuous Discharge Current</th>
<th>Discharge Cut Off</th>
<th>Internal Impedance</th>
<th>Expected Cycle Life @ (0.5C/0.5C) @ 23±5℃</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000mAh min, 2030mAh typ.</td>
<td>3.7V</td>
<td>7.4Ah</td>
<td>2.75V to 4.20V</td>
<td>4.2V ± 50mV</td>
<td>1000mA</td>
<td>&lt; 200mΩ</td>
<td>2.75V</td>
<td>&lt; 200mΩ</td>
<td>500 cycles ≥ 80%</td>
</tr>
</tbody>
</table>

**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℃
- Discharge Temp. Range: -20 to +60℃
- Storage Temp. Range: 1 year at -20 to +30℃ >70%
- 3 moths at -20 to +45℃ >70%
- 1 month at -20 to +60℃ >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