**Specification**

Lithium Polymer Battery Pack LP525178 2500mAh 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**
  - LP525178
- **PCM**
  - Yes
- **Configuration**
  - No
- **Weight**
  - 1S1P
- **Connector**
  - appr. 50g
  - JST PHR-2 (A)

### Electrical Specification

- **Rated Capacity**
  - 2500mAh min, 2550mAh typ.
- **Nominal Voltage**
  - 3.7V
- **Wat-Hour Rating**
  - 9.25Wh
- **Max. Operating Voltage Range**
  - 2.75V to 4.20V
  - 4.2V ±50mV
- **Max. Charge Voltage**
  - 1250mA
- **Max. Charge Current**
  - 2500mA
- **Max. Continuous Discharge Current**
  - 2.75V
- **Discharge Cut Off**
  - <200mΩ
- **Internal Impedance**
  - 2.75V
- **Expected Cycle Life**
  - 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 moths 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.liropolbattery.com/support.html

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**LiPo Battery, 3.7V**

LP525178 2500mAh

**Circuit diagram**

- double-sided adhesive tape
- wire red (+) AWG26 UL1007
- connector JST PHR-2
- wire black (-) AWG26 UL1007
- adhesive tape Kapton (2x)

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**LiPol Battery**

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