Specification

Lithium Polymer Battery Pack LP852040 620mAh 3.7V with Protection Circuit Module (PCM)

This data sheet describes the requirements and properties of lithium polymer rechargeable battery packs manufactured by LiPol Battery Co., Ltd - China.

**Mechanical Characteristics**

- **Cell**: LP852040
- **PCM**: Yes
- **NTC**: 10K Ω ±1% +25°C B3380
- **Configuration**: 1S1P
- **Weight**: appr. 12g

**Electrical Specification**

- **Rated Capacity**: 620mAh min, 640mAh typ.
- **Nominal Voltage**: 3.7V
- **Wat-Hour Rating**: 2.29Wh
- **Max. Operating Voltage Range**: 2.75V to 4.20V
- **Max. Charge Voltage**: 4.2V ± 50mV
- **Max. Charge Current**: 310mA
- **Max. Continuous Discharge Current**: 620mA
- **Discharge Current**: 2.75V
- **Discharge Cut Off**: 2.75V
- **Internal Impedance**: <200mΩ
- **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**: 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%

**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