



# Specification

Lithium Polymer Battery Cell LP201020 30mAh 3.7V without 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 ▶ LP201020
- PCM ▶ No
- NTC ▶ No
- Configuration ▶ 1S1P
- Weight ▶ appr. 0.6g

## Electrical Specification

- Rated Capacity ▶ 30mAh min, 30mAh typ.
- Nominal Voltage ▶ 3.7V
- Wat-Hour Rating ▶ 0.111Wh
- Max. Operating Voltage Range ▶ 2.75V to 4.20V
- Max. Charge Voltage ▶ 4.2V ±50mV
- Max. Charge Current ▶ 15mA
- Standard Charge Current ▶ 6mA
- Max. Continuous Discharge Current ▶ 30mA
- Standard Discharge Current ▶ 15mA
- 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 ▶ 0.5A to 1A (8 to 16msec. delay)

## Ambient Conditions

- Charge Temp. Range ▶ +10 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)

Index		Alteration		Date	Name
Projection:		Diese Mae werden besonders gepruft This dimensions are considered inspectable			
Mae in mm	Freimtoleranzen	Date	Name	Material 6645178 3352	
All dimensions in mm	Generaltoleranzen	Erst./ Orig	24.08.2021	Xie Qingfang	
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	over 100 · 0,5	LP201020		3	FD_1020_720
		Origin:	www.LiPolBattery.com		support@lipolbattery.com

