



# Specification

Lithium Polymer Battery Pack LP321324 85mAh 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 ▶ LP321324
- PCM ▶ NO
- NTC ▶ No
- Configuration ▶ 1S1P
- Weight ▶ appr. 1.7g

## Electrical Specification

- Rated Capacity ▶ 85mAh min, 115mAh typ.
- Nominal Voltage ▶ 3.7V
- Wat-Hour Rating ▶ 0.315Wh
- Max. Operating Voltage Range ▶ 2.75V to 4.20V
- Max. Charge Voltage ▶ 4.2V ±50mV
- Max. Charge Current ▶ 42.5mA
- Standard Charge Current ▶ 17mA
- Max. Continuous Discharge Current ▶ 85mA
- Standard Discharge Current ▶ 42.5mA
- 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 ▶ 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%
- ▶ 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	Freimatoleranzen	Date	Name	Material		
All dimensions in mm	Generaltoleranzen	17.08.2020	Xie Qingfang	6645178 3352		
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.	up to 6 · 0,1	Bezt./ Desig.		<b>LiPol Battery</b>		
	over 6 up to 30 · 0,2	Gepr./ Check.	17.08.2020			Guo Daxia
Proprietary data, company confidential, all rights reserved.	over 30 up to 100 · 0,3	Benennung/ Designation				Zchng. / Dwg. Nr.
	over 100 · 0,5	LP321324		3	FD_1324_70	
		Origin:	www.LiPolBattery.com		support@lipolbattery.com	