



# Specification

Lithium Polymer Battery Pack LP453653 1000mAh 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	▶ LP453653
PCM	▶ Yes
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 20.0g

## Electrical Specification

Rated Capacity	▶ 1000mAh min, 1020mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 3.70Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 500mA
Standard Charge Current	▶ 200mA
Max. Continuous Discharge Current	▶ 1000mA
Standard Discharge Current	▶ 500mA
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 IEC62133-2:2017 & RoHS-Compliant. For more safety precautions and performance standards, please go to [www.lipolbattery.com/support.html](http://www.lipolbattery.com/support.html)

Mae in mm All dimensions in mm	Freimatoleranzen Generaltolerances		Date	Name	+ LiPol Battery			
		Erst. / Orig	31.08.2021	Xie Qingfang				
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Proprietary data, company confidential, all rights reserved.	over 30 up to 100	0,3	Benennung/ Designation LP453653			3	Zchnng. / Dwg. Nr. FD_3653_45	Index
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							support@lipolbattery.com	