

# Specification

Lithium Polymer Battery Cell LP656678 4000mAh 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	▶ LP656678
PCM	▶ No
NTC	▶ No
Configuration	▶ 1S1P
Weight	▶ appr. 80g

## Electrical Specification

Rated Capacity	▶ 4000mAh min, 4000mAh typ.
Nominal Voltage	▶ 3.7V
Wat-Hour Rating	▶ 18.4Wh
Max. Operating Voltage Range	▶ 2.75V to 4.20V
Max. Charge Voltage	▶ 4.2V ±50mV
Max. Charge Current	▶ 2000mA
Standard Charge Current	▶ 800mA
Max. Continuous Discharge Current	▶ 3000mA
Standard Discharge Current	▶ 800mA
Discharge Cut Off	▶ 2.75V
Internal Impedance	▶ <200mΩ
Expected Cycle Life @ (0.5C/0.5C) @ 23±5°C	▶ 500 cycles ≥ 80%

## Cell Protection

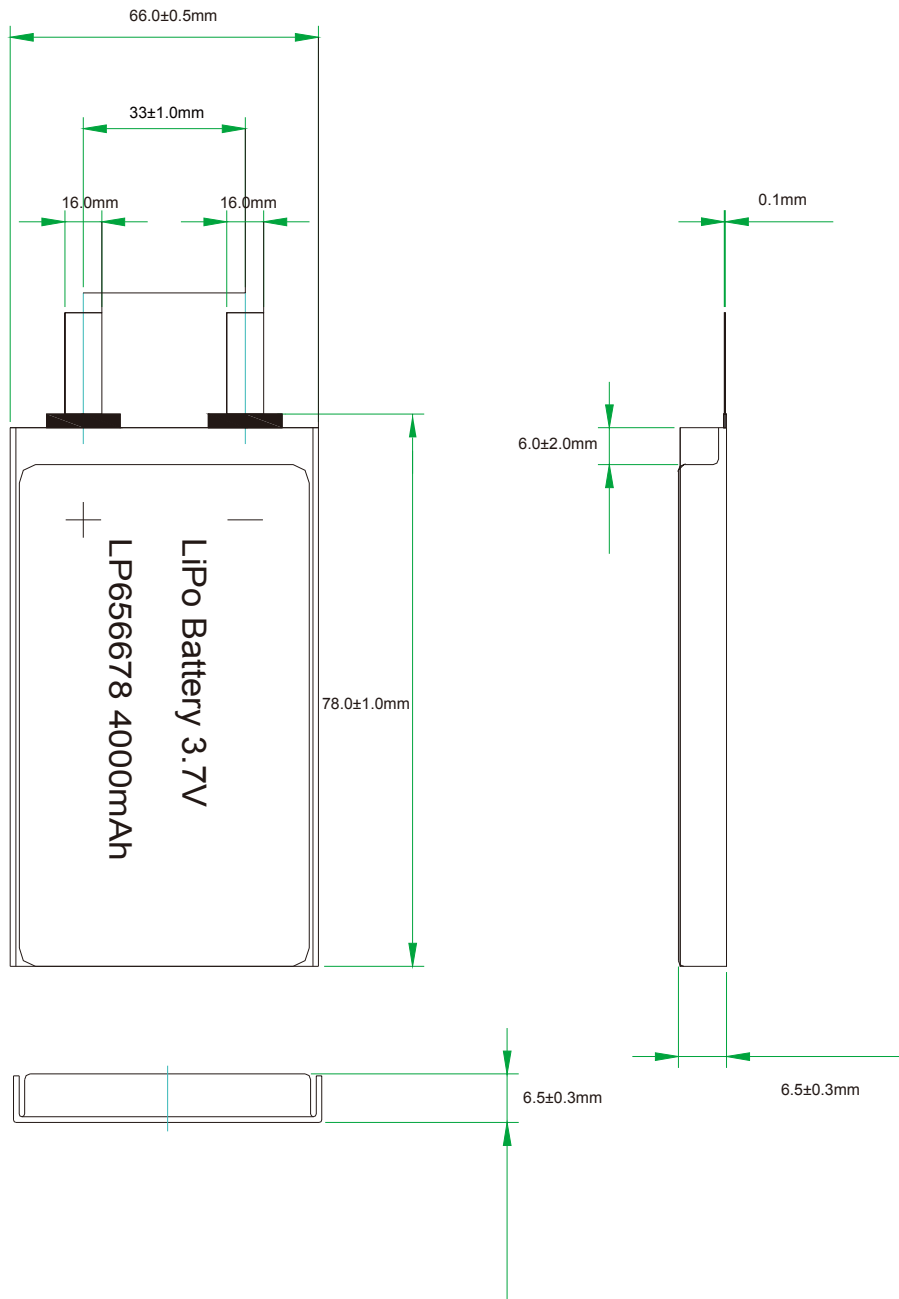
Overcharge Detection	▶ 4.275 ±50mV (0.7 to 1.3sec. delay, release 4.275V ±50mV)
Overdischarge Detection	▶ 2.75V ±50mV (14 to 26msec. delay, resume 2.50V ±50mV)
Overcurrent Detection	▶ 2A to 4.5A (8 to 16msec. delay)

## Ambient Conditions

Charge Temp. Range	▶ +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 All dimensions in mm	Freimatoleranzen Generaltolerances	Date	Name	Material 6645178 3352	
Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.	up to 6	0,1	24.03.2021	Xie Qingfang	
	over 6 up to 30	0,2	24.03.2021	Guo Daxia	
Proprietary data, company confidential, all rights reserved.	over 30 up to 100	0,3	Benennung/ Designation LP656678		
	over 100	0,5	Origin:	Zchng. / Dwg. Nr. 3 FD_6678_65	Index
			www.LiPolBattery.com		support@lipolbattery.com

**LiPol Battery**