

Rechargeable li-polymer battery 401030 80mAh 3.7V

Product Description

Lithium ion polymer battery

Battery model: 401030 80mAh 3.7V

Material of Case Soft Al-film packing foil

Nominal Capacity: 80mAh

Nominal Voltage: 3.7V

Max Charge Current: 1.0C=80mA

Max Discharge Current: 1.5 C=120mA

Charge method CC/CV (constant current/constant voltage)

Size: 4.0*10*30mm

Weight: About 2g

Rechargeable battery with no less than 500 times cycle life

3.7V polymer li-ion battery 401030 80mAh 3.7V

1) Specification

No.	Item	Rated Performance		Remark
1	Rated Capacity	Typical	80mAh	Discharge at 0.2C after standard charge fully.
		Minimum	80mAh	
2	Nominal Voltage	3.7V		Mean operation voltage during standard discharge.
3	Voltage at end of Discharge	3.0V		Discharge cut-off voltage.
4	Charging Voltage	4.2±0.03V		
5	AC (1KHz) Impedance New Cell Max.(mΩ)	≤300mΩ		
6	Standard Charge	Constant Current 0.5C Constant Voltage 4.2V Cut-off current 0.01C		Charge time: Approx 4.0h.
7	Standard Discharge	Constant current 0.2 C end voltage 3.0V		
8	Fast Charge	Constant Current 1C Constant Voltage 4.2V Cut-off current 0.01C		Charge time: Approx 2.5h.
9	Fast Discharge	Constant current 1 C end voltage 3.0V		
10	Maximum Continuous Charge Current	1.0C		
11	Maximum Continuous	1.5C		

	Discharge Current		
12	Operation Temperature Range	Charge: 0~45℃	60±25%RH.
		Discharge: -20~60℃	Bare Cell.
13	Storage Temperature Range	Less than 1 year: -20~25℃	
		Less than 3 months: -20~40℃	
		Less than 1 months: -30~45℃	
		Less than 12 hour: 45~60℃	
14	Storage Humidity Range	60±25%RH.	
15	Weight	Approx: 2g	Whole product
16	Product Dimension	Length: Max. 31.5mm	Initial dimension
		Width: Max. 10.5mm	
		Thickness: Max. 4.2mm	
17	Package	Standard International transportation package, based on UN3480 PI965[RLI] Lithium Ion Cells/Batteries ONLY	

2) Electric features:			
No.	Item	Type value	Unit
1	Over charge detection voltage	4.28±0.03	V
2	Over charge detection delay time	80-200ms	
3	Over charge release voltage	4.08±0.03	V
4	Over discharge detection voltage	3.0±0.08	V
5	Over discharge detection delay time	20-60ms	V
6	Over discharge release voltage	3.0±0.25	V
7	Over current detection voltage	150±30mv	V
8	Over current protection current	1.8±0.5A	A
9	Over current detection delay time	10-20ms	
10	Cycle life	≤500 times(≥70% 0.5C)	