Lionik Specifications

Lithium Polymer 041939

1. Scope Lionik 041939 cell have a combination of high energy density, super light and ultra thin. It's a perfect power source solution for DVD Player, Blue Tooth, Web pad and other handheld device.

2. Specifications

Specification Table of LionikBattery

Nominal voltage	3.7V	Cut-off voltage	3.0V		
Nominal Capacity (mAh)*1	300mAh	Impedance *2 Max (mohm)	135 (m Ω)		
Cell Weight *3	5.8 (±0.2g)	Cycle Life	>= 500 Cycles		
Standard charge method	Charging the cell initially with constant current at 0.5C and then with constant voltage at 4.2V till charge current < 0.05C				
Max. charge current	1C	Max. discharge current	2C		
Standard charge	0.5C × 5hrs	Rapid charge	1C × 2.5hrs		
Operating temperature		°C	°F		
	Charging	0°C ~ 45°C	32°F ~ 113°F		
	Discharging	-20°C ~ 60°C	-4°F ~ 140°F		
	Storage	-20°C ~ 45°C	-4°F ~ 113°F		
Cell dimension	size	mm	inch		
	Length	39.0 ± 0.5	1.54 ± 0.02		
	Width	19.0 ± 0.5	0.75 ± 0.02		
	Thickness	4.00 ± 0.2	0.16 ± 0.01		
Self-discharge	Residual capacity > 90% (@25°C±2°C, 180 days)				

*Remark:

3. Performance

Unless otherwise stated, tests should be done within one month of delivery under the following conditions:

^{*1 @ 0.2}C discharge, 25°C

^{*2} Impedance is measured at AC 1KHz after Standard Charge.

Cell weight is the approximate value for reference.

Shenzhen Lionik Battery Co.,Ltd

Relative humidity : $65\pm20\%$ RH Ambient Temperature (Ta) : $20\pm5\,^{\circ}$ C

Notes: Standard charge / discharge condition

Charge: $120\text{mA}~(0.4\text{C})~\times~2.5~\text{hrs}~$ Discharge: 30~mA~(0.1C) to 3.0V The batteries must be standard discharged before charging Battery test vide infra:

Test	Unit	Specification	Conditions Remarks	
Capacity	mAh	≥300	Standard Charge / Discharge	
Open Circuit Voltage (OCV)	V	4.2	Within 1 hr after standard charge	
Internal Impedance (Ri)	mΩ	≤120	Upon fully charge	
High Rate(1.0C) Discharge	min	≥54	Standard charge, 1 hr rest before discharge	Discharge cut-off voltage3.0V
	N/A	No burst	60mA (0. 2C) discharge	
Over discharge	N/A	No burst	120mA (0. 4C) charge 5 hours	
Over charge	N/A	No leakage nor explosion	30mA (0.1C) charge 10 hours	
Charge	mAh	≥270(90%)	Standard charge, storage for 30 days, standard discharge	
Retention	mAh	≥250(85%)	Standard charge, storage for 7 days, standard discharge	40°C
IEC Cycles Test	cycle	>500	IEC 285 (1993) 4.4.1	
Short Circuit	N/A	Deformation & leakage may occur but no explosion	After standard charge, short circuit for 30 min (lead wire = 0.5mm ² x 20mm)	
Vibration Resistance	N/A	△V<0.08V	Charge at 0.1C for 10 hrs, then leave for 24 hrs. Check battery before / after vibration Amplitude: 1.5mm, Vibration: 3000CPM (any direction for 60 mins)	
Impact Resistance	N/A	△V<0.08V	Charge at 0.1C for 10 hrs, then leave for 24 hrs. Check battery before / after drop the wooden board of thickness: 30 mm Height: 50 cm, test for 3 times. Direction is not specified	

Shenzhen Lionik Battery Co.,Ltd

4. Configurations, Dimensions And Markings

Please refer to the related drawing.

5. External Appearance

The cell / battery shall be free from cracks, scars, breakage, rust, discoloration, leakage and deformation.

6. Warranty

One year limited warranty against workmanship and material defect.

7. Cautions

- 1. Reverse charging is not acceptable.
- 2. Charge before use.
- 3. Do not charge / discharge with more than the specified current.
- 4. Do not short circuit the cell / battery.
- 5. Do not incinerate or mutilate the cell / battery.
- 6. Do not solder directly to the cell / battery.
- 7. The life expectancy may be reduced if the cell / battery is subjected to adverse conditions, like extreme temperature, deep cycling, excessive overcharge/over-discharge.
 - 8. Store the cell / battery in a cool dry place.
 - 9. Keep away from children. If swallowed, contact a physician at once

8. Company Info

Shenzhen Lionik Battery Co., Ltd. China

Tel: +86-755-27897001 755-27803562

Fax:+86-755-27837127

Website:http://www.lionik.com (English version)

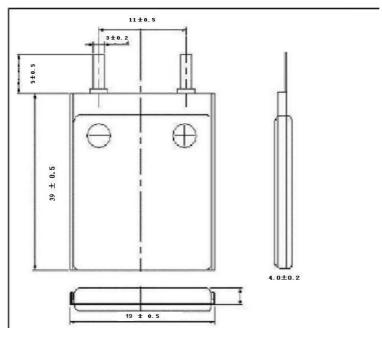
http://www.lionikbattery.com (English & Chinese version)

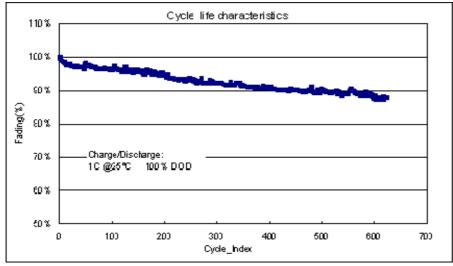
E-Mail: sales@lionik.com; sales@lionikbattery.com;

Adress: B8, Fudong Industrial Garden, Xixiang, BaoAn, Shenzhen, China

Cell Dimension Drawing (unit: mm)

Shenzhen Lionik Battery Co.,Ltd





Model: 041939

