

PowerStream Li-ion Coin Cell Lir2032 Data Sheet

1. Preface

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2.1 Description Rechargeable Lithium-ion button battery

2.2 Model LiR2032

3. Specification

3.1 Capacity Nominal 35mAh

Typical 40mAh

3.2 Charging Voltage 4.20V

3.3 Nominal Voltage 3.7V at 0.2C mA

3.4 Standard Charging Method Constant current: 17mA Constant voltage 4.20V

3.5 Cut-off Discharge Voltage 3.00V

3.6 Max.Discharge Current 70mA

3.7 Max.Charge Current 35mA

3.8 Cycle Life >500 cycles at 0.2C mA discharge

3.9 Ambient Temperature

for Standard Charge 0C~ 45C

for Discharge -20C~ 60C

3.10 Storage

for within the temperature -20C ~ 60 C

for within the humidity <75%

3.11 Energy Density

Wh/L ~ 200 Wh/Kg ~ 90

3.12 Weight of Bare Cell ~2.5g

3.13 Charge State Internal Impedance <600mOhms

4. Appearance

Appearance shall be free from any remarkable scratch, flaws, rust, discoloration or electrolyte leakage(visible or by smell)

- 5.Standard Test condition
- 5.1 Environment Conditions

Unless otherwise specified, all test stated in this Product Specification are conducted within the temperature 15~25C and the humidity 45~85%RH.



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5.2 Test Equipment

(1) Impedance meter

The impedance meter with AC 1kHz should be used

6.Test Procedure and Its Standard

Item	Item Measureing Procedure	
6.1 Appearance	Visual	No Defect and Leak
6.2 Dimension	Caliper	As item 8
6.3 Weight	Scale	As item 3.12
6.4 Maximum Charge Current	CCCV(Constant Current Constant Voltage)	35mA
6.5 Full charge	CCCV	CC-0.2CmA CV- 4.2V total 8h
6.6 Open Circuit Voltage	Within 1hr after full charge,measure Open circuit voltage	>4.15V
6.7 Internal Impedance	Measure the battery with 1kHz AC	<600mOhms
6.8 Discharge Capacity	Within 1hr after full charge, discharge until final discharge, at 0.2C mA and measure the capacity	>35mAh
6.9 Maximum Discharge Current	Until final discharge voltage	70mA
6.10 Charge/Discharge Cycle Life	Charge:CCCV,CC- 0.2CmA,CV- 4.2V total 8h	Discharge capacity
	Discharge:0.2CmA to 3.00V,This charge/discharge shall be repeated 500 times	should be >70% of item 6.8
6.11 Leakage Proof	After full charging, the battery shall be stored at 40±2 and humidity 80 ± 5 % for 21 days	No leakage should be observed by visual inspection
6.12 Temperature Characteristics	at 0.2C mA and measure the capacity 2)After full charge at 20±5C ,stand at	
6.13 Charge Retention	•	Discharge capacity should be>85% of item 6.8

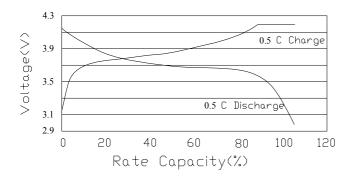


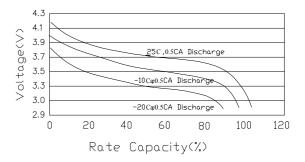
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- 7.1 Charge/Discharge Characteristics Charge:CC/CV 4.2V, 17mA(0.5C), total 5h
 - Discharge:17mA(0.5C) Cut-off at 3.00V

Temperature:25C

7.3 Temperature Characteristics Charge: CC/CV 4.2V 0.5CA,total 5h Discharge: 0.5CA,Cut-off at 3.00V





- 7.2 Charge/Discharge Cycle Life Charge:CC/CV 4.2V , 0.2CA, total 8h Discharge:0.2CA,Cut-off at 3.00V Temperature:25C
 - 110 Capacity(%) 100 90 80 70 60 Rate 50 40 30 20 10 0 600 200 300 400 Number of cycles(times)

8. Dimension(Bare cell) mm

