

PowerStream Li-Ion Coin Cells Lir2430 Data Sheet

1. Preface

2. Description and Model

2.1 Description Rechargeable Lithium-ion button battery

2.2 Model LiR2430

3. Specification

3.1 Capacity Nominal 55mAh

Typical 65mAh

3.2 Charging Voltage 4.20V

3.3 Nominal Voltage 3.7V at 0.2C mA

3.4 Standard Charging Method Constant current:28mA Constant voltage 4.20V

3.5 Cut-off Discharge Voltage 3.00V

3.6 Max.Discharge Current 110mA

3.7 Max.Charge Current 55mA

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~ 60C

for within the humidity <75%

3.11 Energy Density

Wh/L ~200

Wh/Kg ~90

3.12 Weight of Bare Cell ~3.7g

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

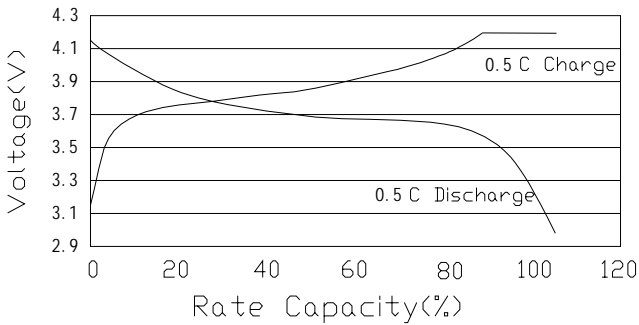
The impedance meter with AC 1kHz should be used

6. Test Procedure and Its Standard

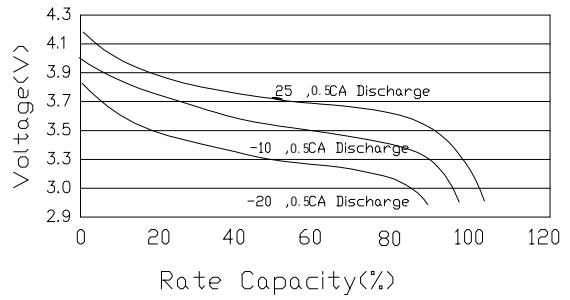
Item	Measuring Procedure	Standard
6.1 Appearance	Visual	No Defect and Leak
6.2 Dimension	Caliper	As item 8
6.3 Weight	Scale	As item 3.12
6.4 Maximum Charge Current	CCCV(Constant Current Constant Voltage)	55mA
6.5 Full charge	CCCV	CC-0.2CmA CV- 4.2V total 8h
6.6 Open Circuit Voltage	Within 1hr after full 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	>55mAh
6.9 Maximum Discharge Current	Until final discharge voltage	110 mA
6.10 Charge/Discharge Cycle Life	Charge:CCCV,CC- 0.2CmA,CV- 4.2V total 8h Discharge:0.2CmA to 3.00V,This charge/discharge shall be repeated 500 times	Discharge capacity should be >70% of item 6.8
6.11 Leakage Proof	After full charging,the battery shall be stored at 40±2C and humidity 80 ± 5 %for 21 days	No leakage should be observed by visual inspection
6.12 Temperature Characteristics	1)After full charge at 20±5C ,stand at -20±2C for 18h,then discharge at 0.2C mA and measure the capacity 2)After full charge at 20±5C ,stand at 55±2C for 2hrs ,then discharge at 1C mA and measure the capacity	Discharge capacity should be>60% of item 6.8 and no abnormality on its appearance and stucture
6.13 Charge Retention	After full charging,stand at 20±5C for 28 days,measure the discharge capacity according to item 7.8	Discharge capacity should be>85% of item 6.8

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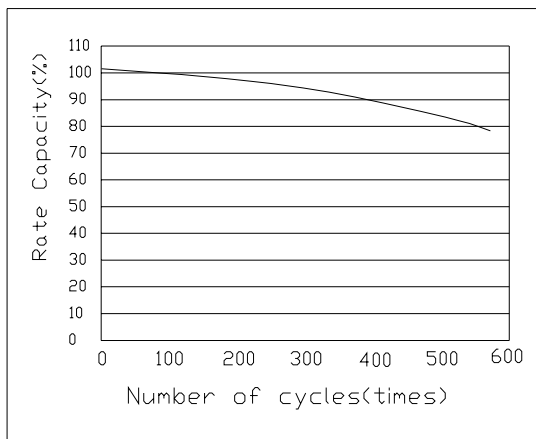
7.1 Charge/Discharge Characteristics
 Charge:CC/CV 4.2V, 28mA(0.5C),
 total 5h
 Discharge:28mA(0.5C) Cut-off at 3.00V
 Temperature:25



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:25



8. Dimension(Bare cell) mm

