

Data Sheet

1. Preface

2. Description and Model

2.1 Description Rechargeable Lithium-ion button battery

2.2 Model LiR2025

3. Specification

3.1 Capacity Nominal 20mAh

Typical 30mAh

3.2 Charging Voltage 4.20V

3.3 Nominal Voltage 3.7V at 0.2C mA

3.4 Standard Charging Method

3.5 Cut-off Discharge Voltage	3.00V
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3.6 Max.Discharge Current	40mA
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3.7 Max.Charge Current 20mA

3.8 Cycle Life >500 cycles at 0.2C mA discharge

3.9 Ambient Temperature

for Standard Charge 0 C~ 45C

for Discharge -20C~ 60C

3.10 Storage

for within the temperature $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

for within the humidity <75%

3.11 Energy Density

Wh/L ~200

Wh/Kg ~90

3.12 Weight of Bare Cell ~2.2g

3.13 Charge State Internal Impedance <750mOhms

4.Appearance

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

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)	20mA
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		<750mOhms
6.8 Discharge Capacity	Within 1hr after full charge,discharge until final discharge,at 0.2C mA and measure the capacity	>20mAh
6.9 Maximum Discharge Current	Until final discharge voltage	40 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 Pro	After full charging,the battery sh 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-20C 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 Retension	After full charging,stand at 20±5C for 28 days,measure the disc	Discharge capacity should be>85% of item

Li-ion Coin Cell Lir2025

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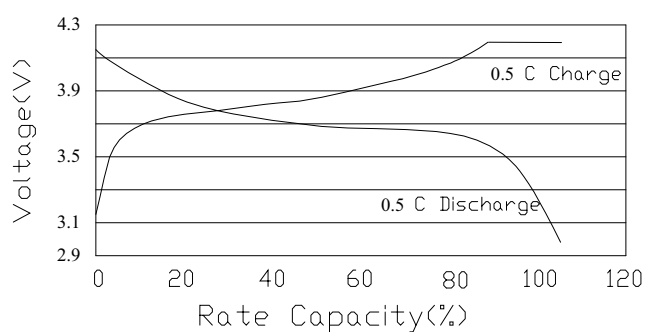
7.1 Charge/Discharge Characteristics

Charge:CC/CV 4.2V, 10mA(0.5C),

total 5h

Discharge:10mA(0.5C) Cut-off at 3.00V,

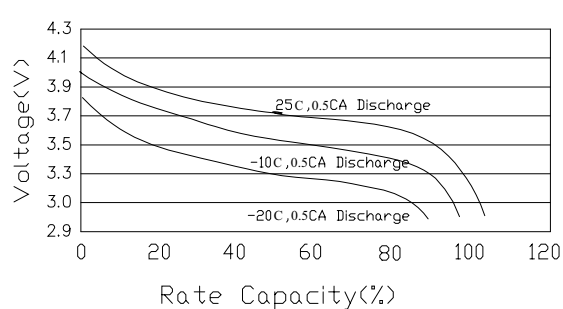
Temperature:25



7.3 Temperature Characteristics

Charge: CC/CV 4.2V 0.5CA,total 5h

Discharge:0.5CA,Cut-off at 3.00V



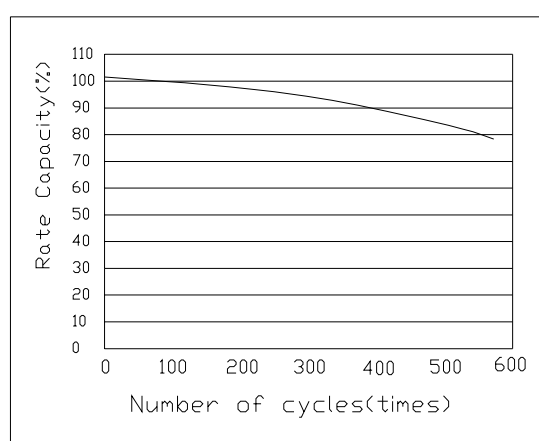
7.2 Charge/Discharge Cycle Life

Charge:CC/CV 4.2V 0.2CA,

total 8h

Discharge:0.2CA,Cut-off at 3.00V

Temperature:25C



8. Dimension(Bare cell) mm

