## PowerStream Li-ion Coin Cell Lir2025 Data Sheet

1. Preface

2. Description and Me	odel		
2.1 Description		Rechargeable Lithium-ion button battery	
2.2 Model		LiR2025	
3. Specification			
3.1 Capacity	Nominal	20mAh	
	Typical	30mAh	
3.2 Charging Voltag	je	4.20V	
3.3 Nominal Voltage		3.7V at 0.2C mA	
3.4 Standard Charging Method		Constant current:10mA Constant voltage 4.20V	
3.5 Cut-off Discharge Voltage		3.00V	
3.6 Max.Discharge Current		40mA	
3.7 Max.Charge Current		20mA	
3.8 Cycle Life		>500 cycles at 0.2C mA discharge	
3.9 Ambient Temper	rature		
for Standard Charge		0 C~ 45C	
3.9 Ambient Temperature for Standard Charge for Discharge		-20C~ 60C	
3.10 Storage			
3.10 Storage for within the temperature		-20C~ 60C	
for within the temperature for within the humidity		<75%	
3.11 Energy Density	7		
Wh/L		~200	
Wh/Kg		~90	
3.12 Weight of Bare Cell		~2.2g	
3.13 Charge State Internal Impedance		<750mOhms	
1 Appearance			

#### 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

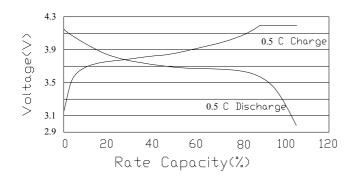
6.Test Procedure and Its Standard

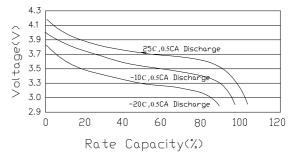
Item	Measureing Procedure	Standard
6.1 Appearance	Visual	No Defect and Leak
6.2 Dimension	Caliper	As item 8
6.3 Weight	Scale	As item 3.12
6.4 Maximum Charge Current	CCCV(Constant Current Constant Voltage)	20mA
6.5 Full charge	CCCV	CC-0.2CmA CV- 4.2V total 8h
6.6 Open Circuit Voltage	Within 1hr after 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 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 $40\pm 2C$ and humidity $80 \pm 5\%$ for 21 days	No leakage should be observed by visual inspection
6.12 Temperature Characteristics	<ul> <li>1)After full charge at 20±5C ,stand at</li> <li>-20±2C for 18h,then discharge</li> <li>at 0.2C mA and measure the capacity</li> <li>2)After full charge at 20±5C ,stand at</li> </ul>	Discharge capacity
6.13 Charge Retension		Discharge capacity should be>85% of item 6.8

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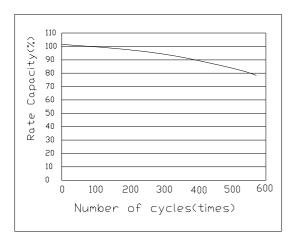
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- 7.1 Charge/Discharge Characteristics Charge:CC/CV 4.2V, 10mA(0.5C), total 5h Discharge:10mA(0.5C) Cut-off at 3.00V Temperature:25
- 7.3 Temperature Characteristics Charge: CC/CV 4.2V 0.5CA,total 5h Discharge:0.5CA,Cut-off at 3.00V

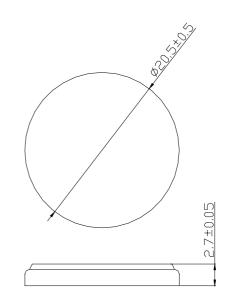




7.2 Charge/Discharge Cycle Life Charge:CC/CV 4.2V, 0.2CA, total 8h Discharge:0.2CA,Cut-off at 3.00V Temperature:25C



#### 8. Dimension(Bare cell) mm



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