

PowerStream Li-ion Coin Battery Lir1620 Data Sheet

1. Preface

The purpose of this product specification is to provide technical information for the rechargeable Lithium-ion button battery LiR1620

2. Description and Model

2.1 Description Rechargeable Lithium-ion button battery

2.2 Model LiR1620

3. Specification

3.1 Capacity Nominal 10mAh

Typical 12mAh

3.2 Charging Voltage 4.20V

3.3 Nominal Voltage 3.7V at 0.2C mA

3.4 Standard Charging Method Constant current:5mA Constant voltage 4.20V total 5h

3.5 Cut-off Discharge Voltage 3.00V

3.6 Max.Discharge Current 20mA

3.7 Max.Charge Current 10mA

3.8 Cycle Life >500 cycles at 0.2C mA discharge

3.9 Ambient Temperature

for Standard Charge 0C ~ 45C

for Discharge $-20C \sim 60C$

3.10 Storage

for within the temperature -20° 60°C

for within the humidity 75%

3.11 Energy Density

Wh/L ~ 300 Wh/Kg ~ 120

3.12 Weight of Bare Cell ~1.2g

3.13 Charge State Internal Impedance <1200mOhms

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

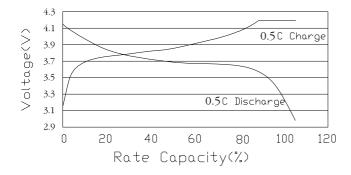
6.Test Procedure and Its Standard

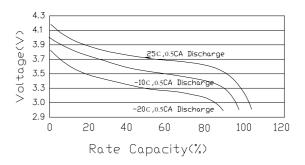
Item	Measuring Procedure	Standard
6.1 Appearance	Visual	No Defects or Leakage
6.2 Dimension	Caliper	As item 8
6.3 Weight	Scale	As item 3.12
6.4 Maximum Charge Current	CCCV(Constant Current Constant Voltage)	10mA
6.5 Full charge	CCCV	CC-0.2CmA CV- 4.2V total 8h
6.6 Open Circuit Voltage	Within 1hr after full charge,measure Open circuit voltage	>4.15V
6.7 Internal Impedance	Measure the battery with 1kHz AC	<1200mOhms
6.8 Discharge Capacity	Within 1hr after full charge, discharge until final discharge, at 0.2C mA and measure the capacity	>10mAh
6.9 Maximum Discharge Current	Until final discharge voltage	20 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±2C 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	Discharge capacity should be>60% of item
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, 5mA(0.5C), total 5h Discharge:5mA(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

8. Dimension(Bare cell) mm

