Ciblénergie

Title	Model	Description	Page
Product Specification	LFS AA	Lithium/Iron Disulfide (Li/FeS2)	1

1. Preface

The purpose of this product specification is to provide technical information for the Lithium/Iron Disulfide (Li/FeS2) Lithium battery LFS AA

2. Description and Model

2.1 Description	Lithium/Iron Disulfide (Li/FeS2)
2.2 Model	LFS AA

3. Specification

3.1 Rated Capacity	2900mAh at 1000mA discharge
3.2 Average Weight	14.5g
3.3 Nominal Voltage	1.5V
3.4 Work Voltage	1.30V at Constant current 200mA discharge
3.5 Cut-off Discharge Voltage	0.80V
3.6 Max.Discharge Current	2000mA
3.7 Volume	8.0 cubic centimeters (0.5 cubic inch)
3.8 Lithium Content	Less than 1 gram (0.04 oz.) per cell
3.9 Ambient Temperature	
for Standard Charge	0℃~ 45℃
for Discharge	-20℃~ 60℃
3.10 Storage	
for within the temperature	-20℃~ 60℃
for within the humidity	≤75%
3.11 Energy Density	
Wh/L	
Wh/Kg	
3.12 Shell Life	10years
3.13 Charge State Internal Impedance	

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 15~25℃ and the humidity 45~85%RH.

Title	Model	Description	Page
Product Specification	LFS AA	Lithium/Iron Disulfide (Li/FeS2)	2

5.2 Test Equipment

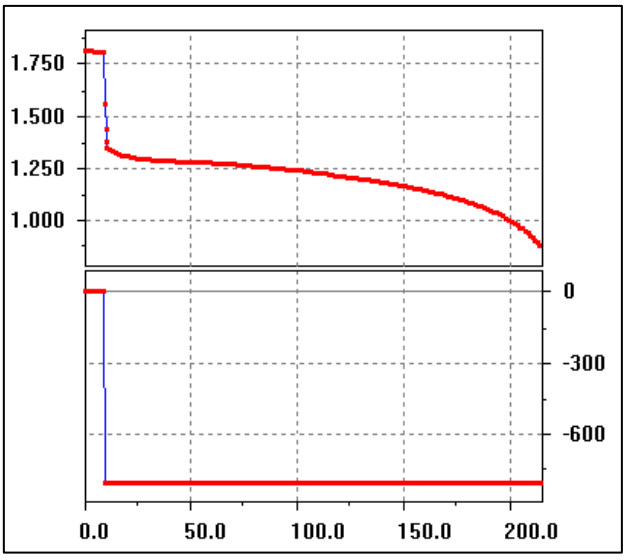
(1) Impedance meter

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 Max.Discharge Current	Until final discharge voltage	2000mA
6.6 Open Circuit Voltage	Measure open circuit voltage	>1.72V
6.7 Internal Impedance	Measure the battery with 1kHz AC	
6.8 Discharge Capacity	The battery discharge until final discharge voltage 0.8V,at 0.2C and measure the capacity	>2900mAh
6.9 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

7. Discarge Curve discharge at 1000mA to 0.8V



8. Dimension(Bare cell) mm