



Lithium Sulfur Rechargeable Battery Data Sheet

Lithium sulfur has the highest theoretical specific and volumetric energy densities of any rechargeable battery chemistry (2550 Wh/kg and 2862 Wh/l theoretically). SION Power has learned how to unlock this potential and has created a unique rechargeable battery system. This patented technology is enabling new applications for rechargeable batteries and replacing existing primary and rechargeable batteries in applications where weight is a critical factor.

Typical applications include:

- Unmanned Vehicle Systems
- Weight sensitive electronic applications
- Military communication systems
- Sensors

Electrical Specifications:

Nominal Voltage:	2.15V
Maximum Charge Voltage:	2.5V
Minimum Voltage on Discharge:	1.7V
Nominal Capacity @ 25°C:	2.5 Ah @ C/5
Maximum continuous discharge rate:	2C
Maximum charge rate:	C/5
Specific Energy:	350 Wh/kg
Energy Density:	320 Wh/l
Cell Impedance:	25 mΩ

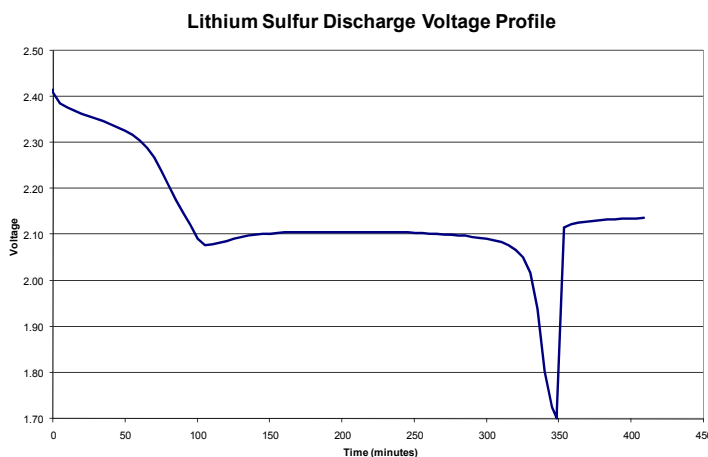


Mechanical Specifications:

Configuration:	Prismatic
Length:	55 mm (top flanged folded)
Width:	37 mm
Thickness:	11.5 mm
Weight:	~16 g

Environmental Specifications:

Discharge Temperature:	-20°C to +45°C
Charge Temperature:	-20°C to +45°C
Storage Temperature:	-40°C to +50°C



SION Power Inc., 2900E. Elvira Rd., Tucson, AZ 85756 Tel: +1.520.799.7500 Fax: 1.520.799.7501
www.sionpower.com

All specifications are subject to change without notice. The information contained here is for reference only and does not constitute a warranty of performance.

Date: 10/3/08 - Supersedes: 09/28/05