Primary lithium batteries

LO 43 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO₂) Very high drain and pulse capability 5/4 C-size spiral cell



Benefits

- High and stable discharge voltage
- Superior pulse capability
- Performance not affected by cell orientation
- Long storage possible before use
- Ability to withstand extreme temperature

Key features

- Low self-discharge rate (less than 3 % after 1 year of storage at +20°C)
- Hermetic glass-to-metal sealing
- Built-in safety vent
 (at the negative end of the cell)
- Restricted for transport (class 9)
- UL Component Recognition (File Number MH 15076)
- Meets shock, vibration and other environmental requirements of military specifications
- Made in the USA

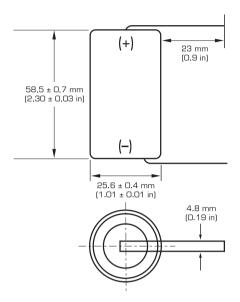
Main applications

- Radiocommunications and other military applications
- Beacons and Emergency Location Transmitters
- Sonobuoys
- Emergency car door opening system

Cell size r	eferences	5/4 R14 - 5/4 C
Electrical ch	aracteristics	
(typical values	for cells stored for one year or less)	
Nominal capacity (at $0.2 \text{ A} + 20^{\circ}\text{C} 2.0 \text{ V}$ cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)		5.0 Ah
Open circuit vo	ltage (at +20°C)	3.0 V
Nominal voltag	e (at 0.6 A + 21°C/+70°F)	2.8 V
	mmended continuous current neating. Higher currents possible, consult Saft)	2.5 A
(The voltage rethe temperature	r: Typically up to 10 A radings may vary according to the pulse characteristics, re, and the cell's previous history. Fitting the cell with a be recommended in severe conditions. Consult Saft)	
Storage	(recommended) (possible without leakage)	+ 30°C (+ 86°F) max - 60°C/+ 85°C (- 76°F/+ 185°F)
Operating temperature range (Short excursions up to +85°C possible at currents below 1 A)		-60°C/+70°C (-76°F/+158°F)
Physical cha	racteristics	
Diameter (max)		26.0 mm (1.02 in)
Height (max; finish with radial tabs)		59.2 mm (2.33 in)
Typical weight		53 g (1.86 oz)
Li metal content		1.7 g
Standard cell c and two radial	omes with resin potting at the positive end 0.15 mm - thick nickel tabs	
Other finish co	nfigurations available on request.	



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Overall dimensions

Handling precautions

- Cell is pressurised at ambient temperature.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).

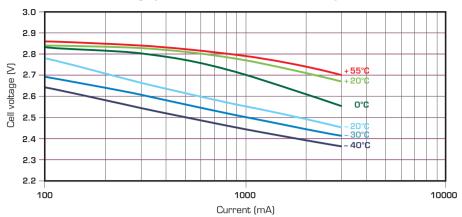
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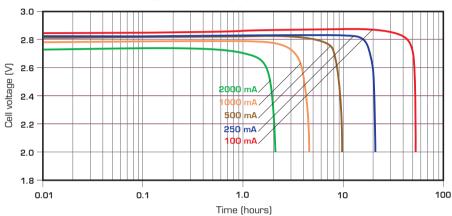
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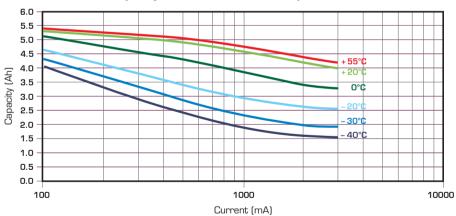
Voltage plateau versus Current and Temperature



Typical discharge profiles at + 20°C



Restored Capacity versus Current and Temperature (2.0 V cut-off)



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