Primary lithium battery

LO 39 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO₂) Very high drain and pulse capability F-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

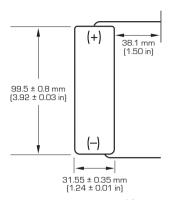
Main applications

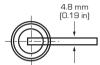
- Radiocommunications and other military applications
- Beacons and Emergency Location Transmitters
- Sonobuoys
- Emergency car door opening system

Cell size re	eferences	F
Electrical cha	racteristics	
(typical values fo	r cells stored for one year or less)	
Nominal capacity (at 1 A +20°C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)		11.5 Ah
Nominal energy		32.2 Wh
Open circuit volt	age (at +20°C)	3.0 V
Nominal voltage	(at 0.6 A +21°C/+70°F)	2.8 V
	nmended continuous current vating. Higher currents possible, consult Saft)	3.0 A
(The voltage rea the temperature	Typically up to 60 A dings may vary according to the pulse characteristics, , and the cell's previous history. Fitting the cell with a e 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 char	acteristics	
Diameter (max)		31.9 mm (1.25 in)
Height (max; finish with radial tabs)		100.3 mm (3.95 in)
Typical weight		125 g (4.4 oz)
Li metal content		3.9 g
	mes with resin potting at the positive end .15 mm - thick nickel tabs	
Other finish conf	igurations 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).

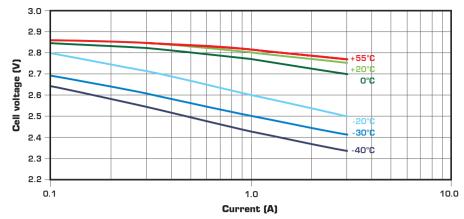
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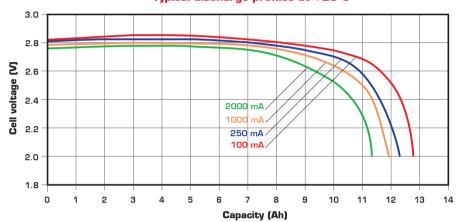
313 Crescent Street Valdese, NC 28690 - USA Tel.: +1 (828) 874 41 11 Fax: +1 (828) 879 39 81

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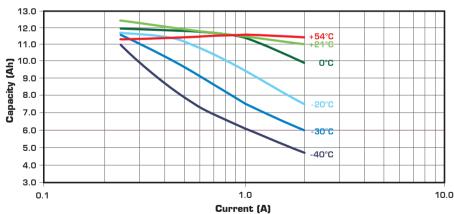




Typical discharge profiles at +20°C



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



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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc No 31048-2.

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