Primary lithium batteries LO 25 SX

3.0 V Primary lithium-sulfur dioxide (Li-SO₂) High drain capability "Fat" D-size spiral cell



Cell size refer	ence	"Fat" D
Electrical charac	teristics	
(typical values for ce	lls stored for one year or less)	
Nominal capacity (at 0.27 A +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)		8.0 Ah
Open circuit voltage	(at +20°C)	3.0 V
Nominal voltage	(at 0.6 A +20°C)	2.8 V
Maximum recommended continuous current (to avoid over-heating. Higher currents possible, consult Saft)		2.5 A
the temperature, and	ically up to 10 A. may vary according to the pulse characteristics, I the cell's previous history. Fitting the cell with a commended in severe conditions. Consult Saft)	
Storage	(recommended) (possible without leakage)	+ 30°C (+ 86°F) ma - 60°C / +85°C (-76°F / +185°F)
Operating temperature range		-60°C / +70°C (-76°F / +158°F
(Short excursions up	to +85°C possible at currents below 1 A)	
Physical charact	eristics	
Diameter (max)		39.5 mm (1.56 ir
Height (max; finish without radial tabs)		50.3 mm (1.97 ir
Typical weight		96 g (3.39 oz)
Li metal content		2.6 g
Standard cell comes two radial 0.15 mm	with resin potting in the topshell area and - thick nickel tabs	
Different configuratio	ns available on request.	



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Benefits

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

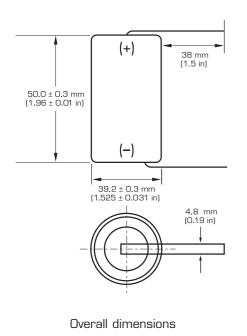
Key features

- 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
- Missiles

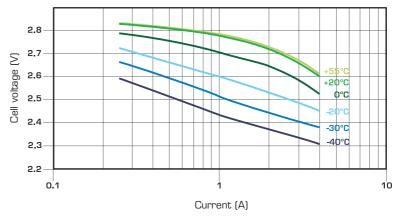
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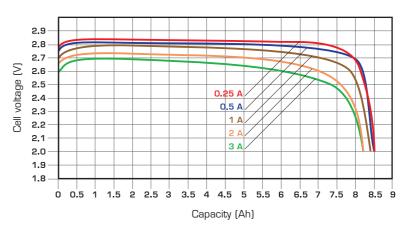


Handling precautions

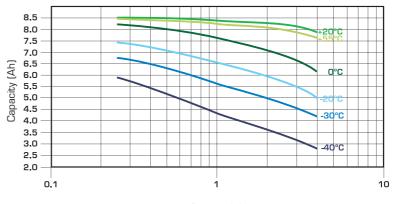
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).



Voltage at mid-discharge versus Current and Temperature (2.0 V cut off)



Typical discharge profiles at +20°C



Current (A)

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

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Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft. For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2. Published by the Communications Department.

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