Primary lithium batteries LO 25 SX

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



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

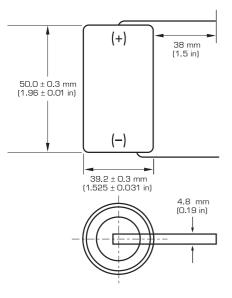
Main applications

- Radiocommunications and other military applications
- Beacons and Emergency Location Transmitters
- Sonobuoys
- Missiles

Cell size reference	"Fat" D
Electrical characteristics	
(typical values for cells 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
Pulse capability: Typically up to 10 A. (The voltage readings may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may 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	-60°C / +70°C
(Short excursions up to +85°C possible at currents below 1 A)	(-76°F / +158°F)
Physical characteristics	
Diameter (<i>max</i>)	39.5 mm (1.56 in)
Height (max; finish without radial tabs)	50.3 mm (1.97 in)
Typical weight	96 g (3.39 oz)
Li metal content	2.6 g
Standard cell comes with resin potting in the topshell area and two radial 0.15 mm - thick nickel tabs	
Different configurations available on request.	



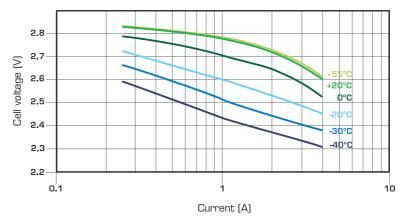
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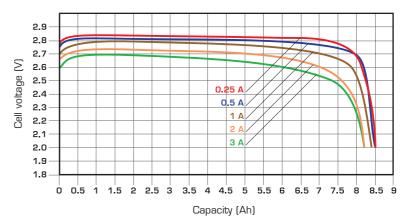
Overall dimensions

Handling precautions

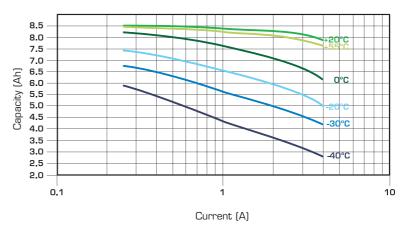
- Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).



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



Typical discharge profiles at + 20°C



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

Doc. N° 31032-2-1005

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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