Primary lithium battery LO 40 SX

3.0 V Primary lithium-sulfur dioxide (Li-SO₂) High drain capability ²∕₃ "Thin" D-size spiral cell

Benefits

- High and stable discharge voltage
- 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)
- UL Component Recognition (File Number MH 15076)
- Meets shock, vibration and other environmental requirements of military specifications
- Restricted for transport (Class 9)
- Made in the USA

Main applications

- Radiocommunications and other military applications
- Automotive telematics

Cell	size	refer	ence	

Electrical characteristics

(typical values for cells stored for one year or less)	
Nominal capacity (under 120 mA +20°C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)	

Open circuit voltage (at + 20°C) Nominal voltage (at 120 mA + 20°C) Maximum recommended continuous current

(to avoid over-heating. Higher currents possible, consult Saft)

Pulse capability: Typically up to 5 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) c Sto

Storage	(possible without leakage)	+30°C (+86°F) Max. -60°C/+85°C (-76°F/+185°F)
Operating temperature range		-60°C/+70°C (-76°E/+158°E)
(Short excursions up to +85°C possible at currents below 1 A)		[/01/1001]

Physical characteristics

Diameter (max)	28.95 mm (1.140 in)
Height (max; finish without radial tabs)	42.29 mm (1.665 in)
Typical weight	40 g (1.41 oz)
Li metal content	1.2 g
Standard cell comes with resin potting in the topshell area and two radial 0.15 mm - thick nickel tabs	

Other configurations available on request.





2/3 "Thin" D

3.50 Ah

3.0 V

2.8 V

2.0 A

LO 40 SX



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).



Current (mA)

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