# Primary lithium battery LO 40 SX

3.0 V Primary lithium-sulfur dioxide (Li-SO<sub>2</sub>) High drain capability <sup>2</sup>/<sub>3</sub> "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

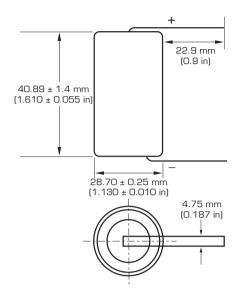
#### Main applications

- Radiocommunications and other military applications
- Automotive telematics

Cell size reference	2/3 "Thin" D
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 according to current drain, temperature and cut-off)	3.50 Ah cell varies
Open circuit voltage (at + 20°C)	3.0 V
Nominal voltage (at 120 mA +20°C)	2.8 V
Maximum recommended continuous current (to avoid over-heating. Higher currents possible, consult Saft)	2.0 A
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 capacitor may be recommended in severe conditions. Consult Saft)	а
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 characteristics	
Diameter (max)	28.95 mm (1.140 in
Height (max; finish without radial tabs)	42.29 mm (1.665 ir
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.	



# LO 40 SX



Overall dimensions

## **Handling precautions**

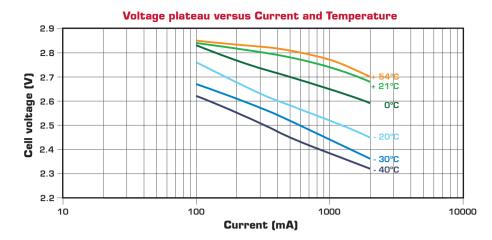
- Cell is pressurised at ambient temperature.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).

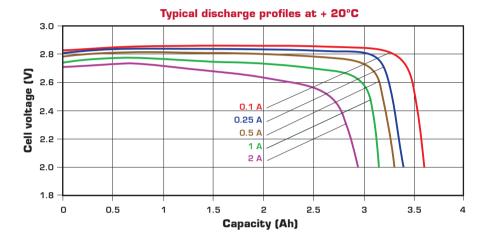
# Saft Specialty Battery Group 12, rue Sadi Carnot

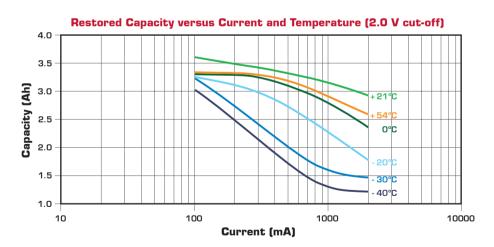
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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc  $N^\circ$  31048-2.

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