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

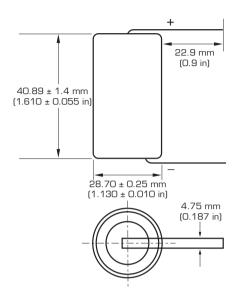
Main applications

- Radiocommunications and other military applications
- Automotive telematics

Cell size reference	²/s "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 cell according to current drain, temperature and cut-off)	3.50 Ah I 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 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 (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

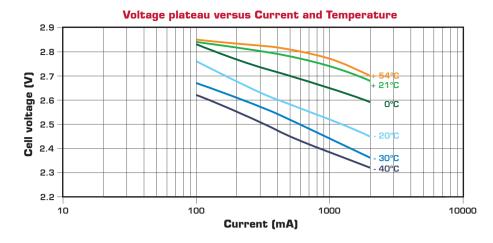
- Cell is pressurised at ambient temperature.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).

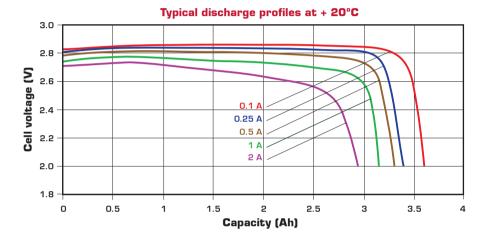
Saft **Specialty Battery Group** 12, rue Sadi Carnot

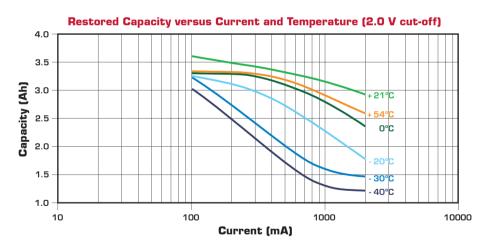
93170 Bagnolet - France Tel.: +33 (O)1 49 93 19 18 Fax: +33 (0)1 49 93 19 69

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

www.saftbatteries.com







Doc. Nº 31088-2-0708

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 Nº 31048-2.

Published by the Communications Department.

Photo credit: Saft.

Société anonyme au capital de 31 944 000€

RCS Bobigny B 383 703 873

Produced by Arthur Associates Limited.

