## **Primary lithium batteries** LO 43 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO<sub>2</sub>) Very high drain and pulse capability 5/4 C-size spiral cell



### **Benefits**

- High and stable discharge voltage
- Superior 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
- Emergency car door opening system

Cell size references		<sup>5</sup> /4 R14 - <sup>5</sup> /4 C
Electrical chara	acteristics	
(typical values for	cells stored for one year or less)	
Nominal capacity (at 0.2 A + $20^{\circ}C$ 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)		5.0 Ah
Open circuit voltag	e (at + 20°C)	3.0 V
Nominal voltage	(at 0.6 A + 21°C/+ 70°F)	2.8 V
Maximum recommended continuous current (to avoid over-heating. Higher currents possible, consult Saft)		2.5 A
(The voltage reading the temperature, a	ypically up to 10 A ngs may vary according to the pulse characteristics, and the cell's previous history. Fitting the cell with a 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 charac	cteristics	
Diameter (max)		26.0 mm (1.02 in)
Height (max: finish with radial tabs)		59.2 mm (2.33 in)

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Height (max; finish with radial tabs)	59.2 mm (2.33 in)
Typical weight	53 g (1.86 oz)
Li metal content	1.7 g
Standard cell comes with resin potting at the positive end	

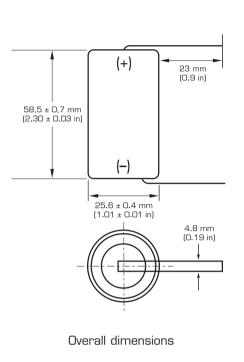
and two radial 0.15 mm - thick nickel tabs

Other finish configurations available on request.



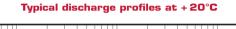
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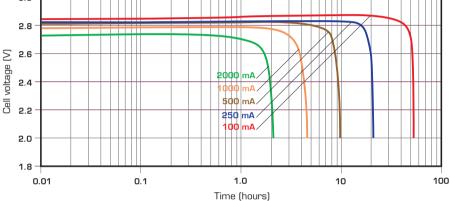
# LO 43 SHX



#### Voltage plateau versus Current and Temperature 3.0 2.9 2.8 Cell voltage (V) - 55° 2.7 2.6 o°c 2.5 30° 2.4 40°C 2.3 2.2 100 1000 10000

Current (mA)



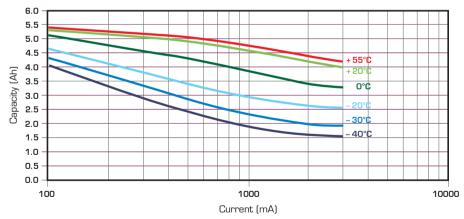


## **Handling precautions**

- 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).

### Restored Capacity versus Current and Temperature (2.0 V cut-off)



### Doc. Nº 31086-2-0208

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.

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