Primary lithium batteries LO 30 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO₂) Very high drain and pulse capability "Thin" D-size spiral cell



Cell size reference	"Thin" D
Electrical characteristics	
(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 of f)	5.75 Ah
Open circuit voltage (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)	A E
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) ma -60°C/+85°C (-76°F/+185°F)
Operating temperature range	-60°C/+70°C [-76°F/+158°F]
(Short excursions up to +85°C possible at currents below 1 A)	(-70 F/+136 F)
Physical characteristics	
Diameter <i>(max)</i>	29.1 mm (1.14 ir
Height (max; finish with radial tabs)	59.9 mm (2.36 ir
Typical weight	63 g (2.21 oz)
Li metal content	1.9 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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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

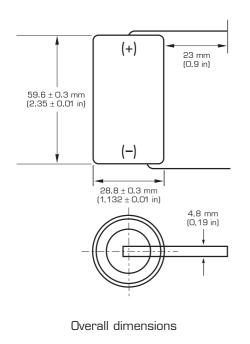
Key features

- 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

LO 30 SHX



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).

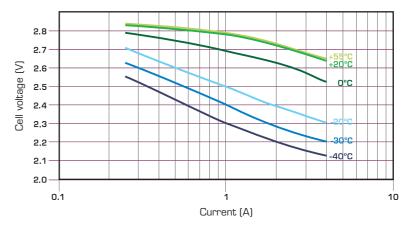
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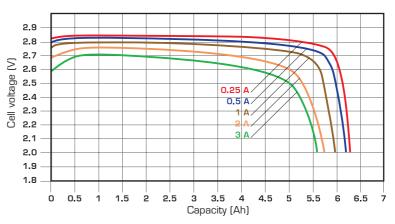
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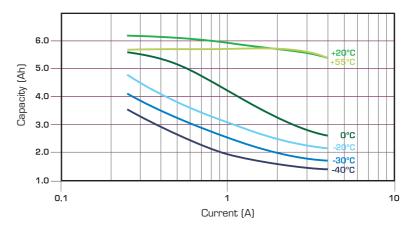
www.saftbatteries.com



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 of f)

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