Primary lithium batteries
LO 26 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO_2)
Very high drain and pulse capability
D-size spiral cell

Benefits

- Superior drain and pulse capability
- High and stable discharge voltage
- 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
- Missiles
- Cardiac defibrillators

Cell size reference		R20 - D
Electrical characteristics		
(typical values for cells stored for one year or less)		
Nominal capacity (at 1 A + 20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)		7.5 Ah
Open circuit voltage	(at +20°C)	3.0 V
Nominal voltage	(at 0.8 A +20°C)	2.8 V
Maximum recommended continuous current (to avoid over-heating. Higher currents possible, consult Saft)		4 A
Pulse capability : Typically up to 15 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)		34.2 mm (1.345 in)
Height (max; finish without radial tabs)		59.3 mm (2.33 in)
Typical weight		85 g (3 oz)
Li metal content		2.3 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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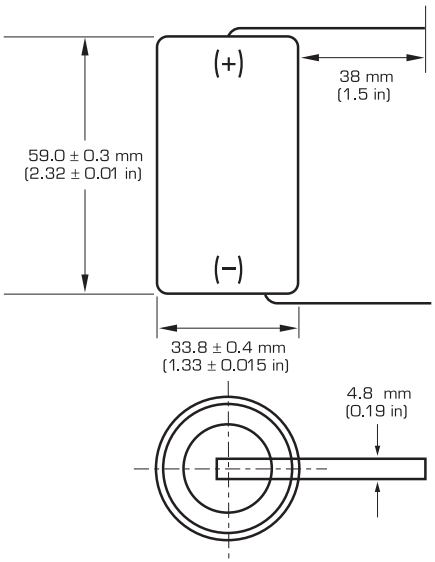

Overall dimensions

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).

Saft
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Valdese NC 28690 - USA
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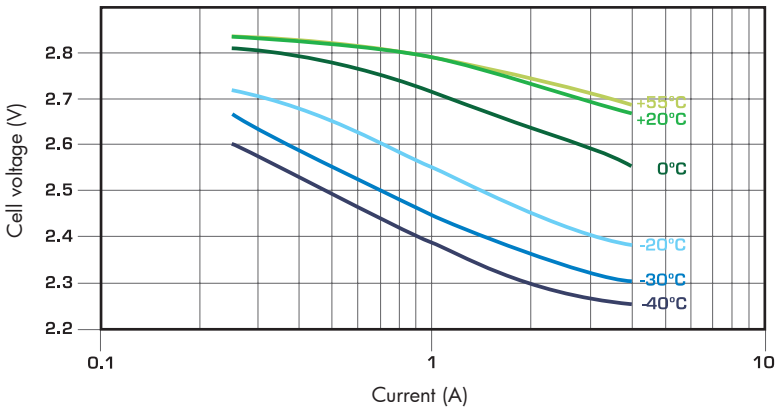
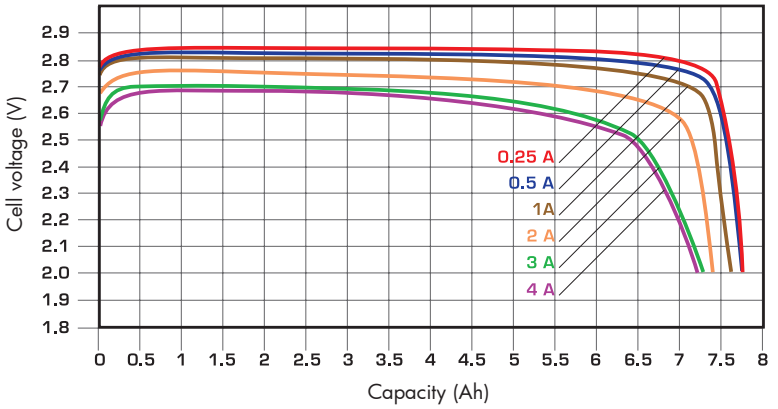
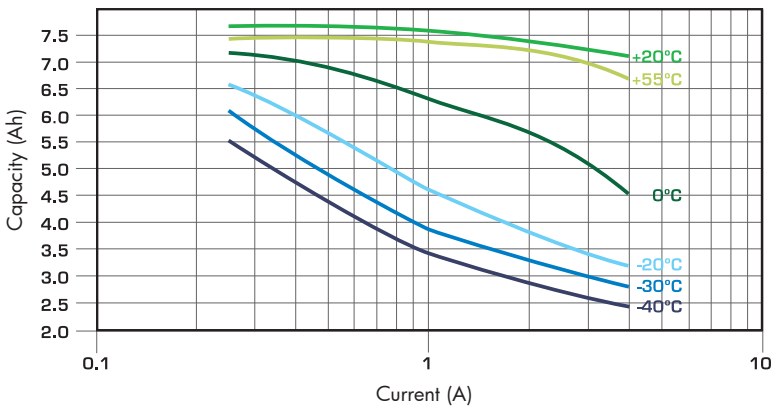
www.saftbatteries.com



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 off)

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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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