Primary lithium batteries
LO 29 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO_2)
Very high drain and pulse capability
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
- Rescue devices (PLBs, EPIRBs)
- Sonobuoys

Cell size reference	R14 - C
Electrical characteristics	
(typical values for cells stored for one year or less)	
Nominal capacity *(at 0.25 A + 20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut of f)*	3.75 Ah
Open circuit voltage (at +20°C)	3.0 V
Nominal voltage (at 0.4 A +20°C)	2.8 V
Maximum recommended continuous current *(to avoid over-heating. Higher currents possible, consult Saft)*	2.5 A
Pulse capability : Typically up to 6 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)*	25.6 mm (1.00 in)
Height *(max; finish without radial tabs)*	50.4 mm (1.98 in)
Typical weight	40 g (1.4 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	
Different configurations available on request.	

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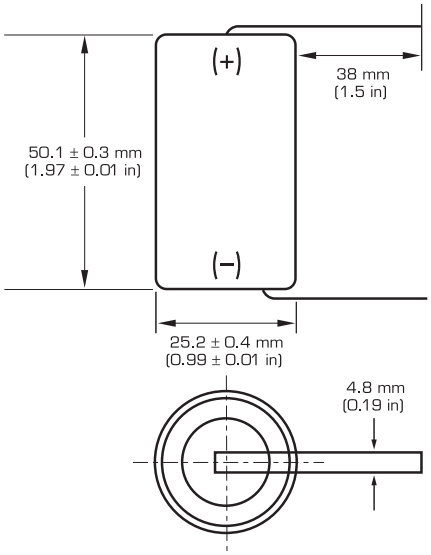
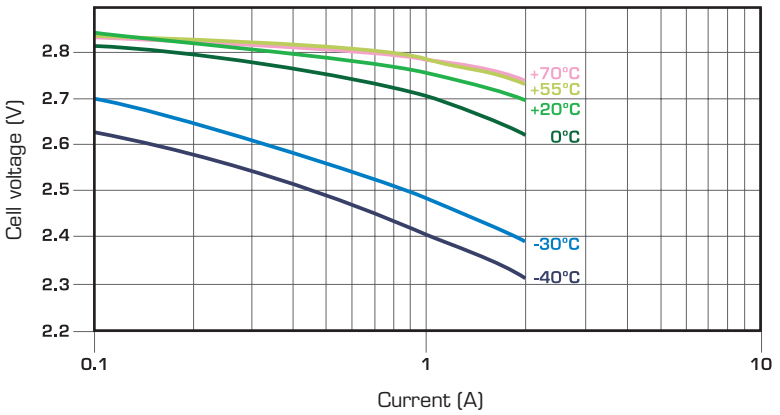
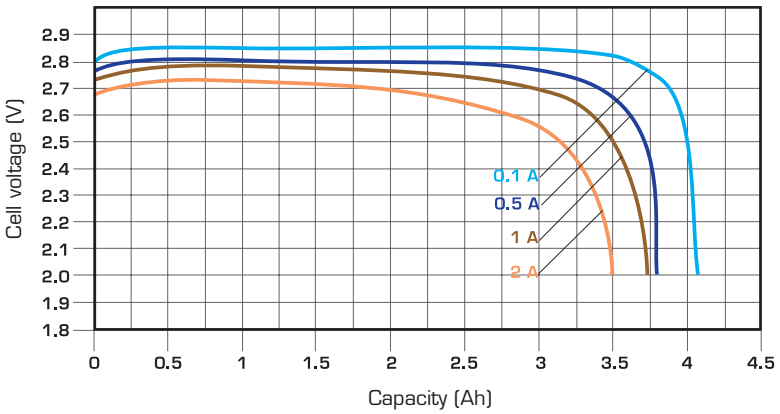


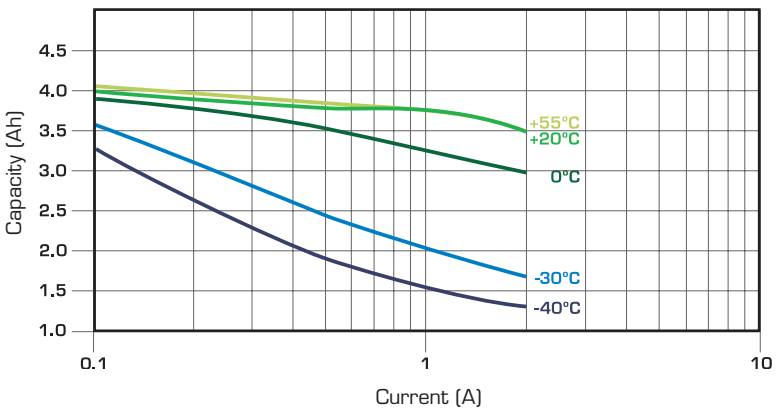
Overall dimensions



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)

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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www.saftbatteries.com

Doc. N° 31036-2-1005

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

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