Primary lithium batteries
LO 29 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)
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

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 off) 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 -80°C / +85°C (-76°F / +185°F)
Operating temperature range (Short excursions up to +85°C possible at currents below 1 A) -80°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.
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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