Primary lithium batteries

G 26

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)
High drain capability
D-size spiral cell

Benefits
- High and stable discharge voltage
- High 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)
- Meets shock, vibration and other environmental requirements of military specifications
- Made in UK

Main applications
- Radiocommunications and other military applications
- Beacons and Emergency Location Transmitters
- Sonobuoys
- Life jacket lights
- Professional electronics
- Missiles

Electrical characteristics
(typical values relative to cells stored for one year or less at +30°C max.)

- 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) 7.75 Ah
- Open circuit voltage (at +20°C) 3.0 V
- Nominal voltage (at 0.5 A +20°C) 2.8 V
- Maximum recommended continuous current (to avoid over-heating) 2.5 A

Pulse capability: Typically up to 5 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) +30°C (+86°F) max
- (possible without leakage) +85°C (+185°F) max

Operating temperature range
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft) -60°C/+70°C (-76°F/+158°F)

Physical characteristics
- Diameter (max) 34.5 mm (1.36 in)
- Height (max) 59.8 mm (2.35 in)
- Typical weight 85 g (3 oz)
- Li metal content 2.4 g

Standard cell comes with protruding positive end-cap.
Finish with tabs available on request.

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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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Overall dimensions in mm

59.3 ± 0.5 max

Ø 34.2 ± 0.3 max

Voltage at mid-discharge versus Current and Temperature (2.0 V cut-off)

Time (hours)

Typical discharge profiles at +20°C

Capacity versus Current and Temperature (continuous discharges 2.0 V cut-off)