

Primary lithium batteries

G 32/3

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

High drain capability

²/₃ A-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)
- Meets shock, vibration and other environmental requirements of military specifications
- Made in UK

Main applications

- Radiocommunications and other military applications
- Memory back-up

Cell size reference

²/₃ A

Electrical characteristics

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

Nominal capacity 0.80 Ah

(at 0.08 A +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)

Open circuit voltage (at +20°C) 3.0 V

Nominal voltage (at 0.05 A +20°C) 2.8 V

Continuous current permitting 50% of the nominal capacity to be achieved at +20°C with 2.0 V cut off. 0.75 A

Pulse capability : Typically up to 1.2 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 -60°C/+70°C
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft) [-76°F/+158°F]

Physical characteristics

Diameter *(max)* 16.3 mm (0.64 in)

Height *(max)* 34.5 mm (1.36 in)

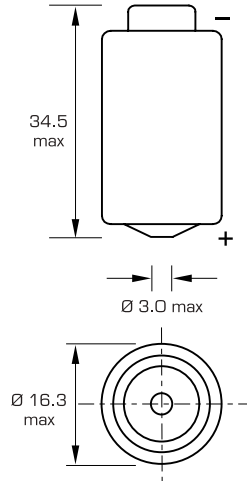
Typical weight 12 g (0.42 oz)

Li metal content 0.26 g

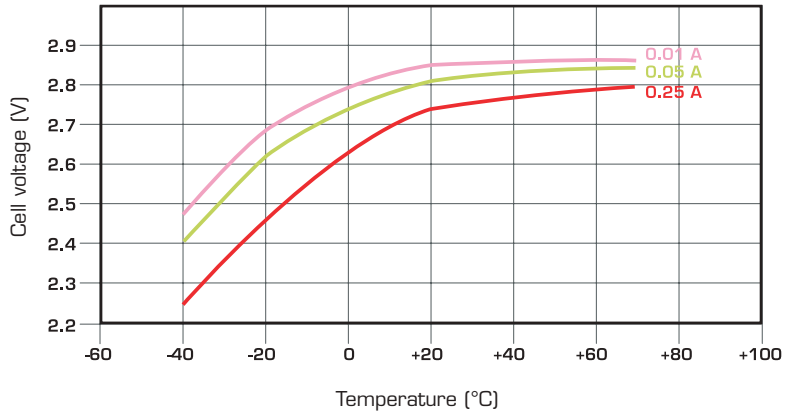
Standard cell comes with protruding positive end-cap.
Finish with tabs available on request.



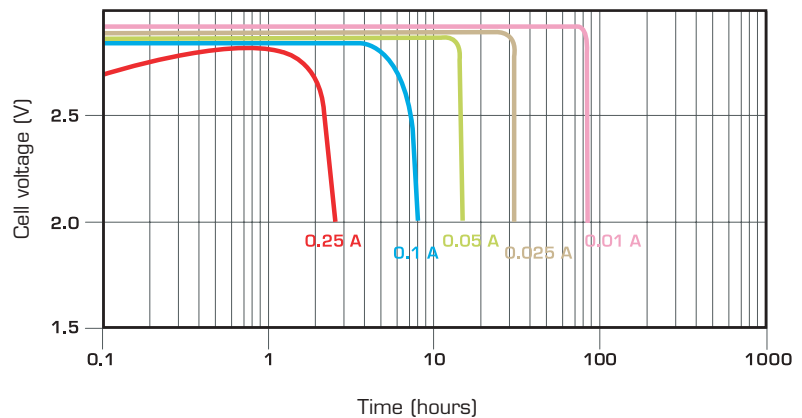
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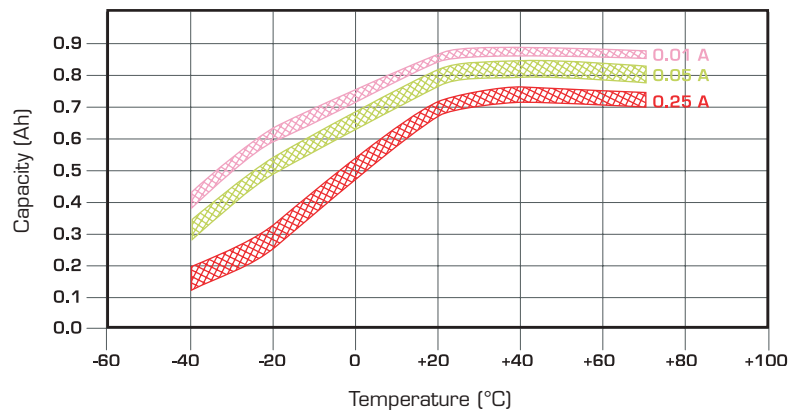
Overall dimensions in mm



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).

Saft

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

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