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

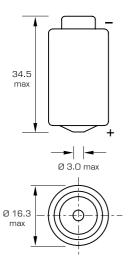
Main applications

- Radiocommunications and other military applications
- Memory back-up

Cell size reference		²/3 A
Electrical characteristics		
(typical values relative to cells stored for one ye	ear or less at +30°C max.)	
Nominal capacity (at 0.08 A +20°C 2.0 V cut off. The capacity according to current drain, temperature and c		0.80 Ah
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 nom at $+20^{\circ}\text{C}$ with 2.0 V cut off.	inal capacity to be achieved	0.75 A
Pulse capability: Typically up to 1.2 A. (The voltage readings may vary according to the temperature and the cell's previous history capacitor may be recommended in severe conditions.)	Fitting the cell with a	
Storage (recommended) (possible without leakage)	1	+30°C (+86°F) max +85°C (+185°F) max
Operating temperature range (Operation above ambient T may lead to reduce voltage readings at the beginning of pulses. Co		-60°C/+70°C (-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 er Finish with tabs available on request.	nd-cap.	



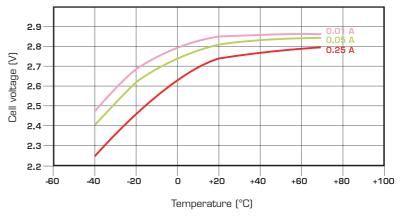
G 32/3



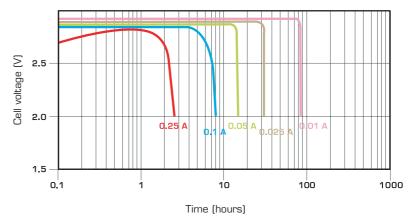
Overall dimensions in mm

Handling precautions

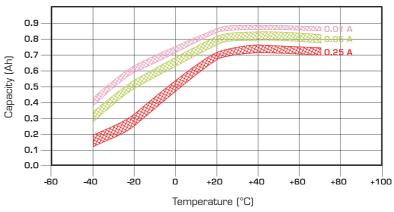
- · Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).



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

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