Primary lithium batteries
G 06/2

3.0 V Primary lithium-sulfur dioxide (Li-SO_2)
High drain capability
AA-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
- Respirators
- Memory back-up
- Professional electronics

Cell size reference		R6 - AA
Electrical characteristics		
(typical values relative to cells stored for one year or less at + 30°C max.)		
Nominal capacity *(at 80 mA + 20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)*		0.95 Ah
Open circuit voltage	(at + 20°C)	3.0 V
Nominal voltage	(at 0.06 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.		0.5 A
Pulse capability : Typically up to 0.8 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 + 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)*		14.2 mm (0.56 in)
Height *(max)*		50.3 mm (1.98 in)
Typical weight		15 g (0.53 oz)
Li metal content		0.4 g
Standard cell comes with protruding positive end-cap. Finish with tabs available on request.		

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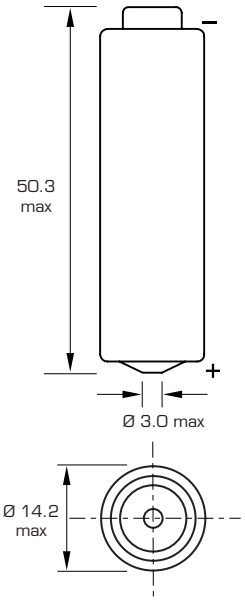
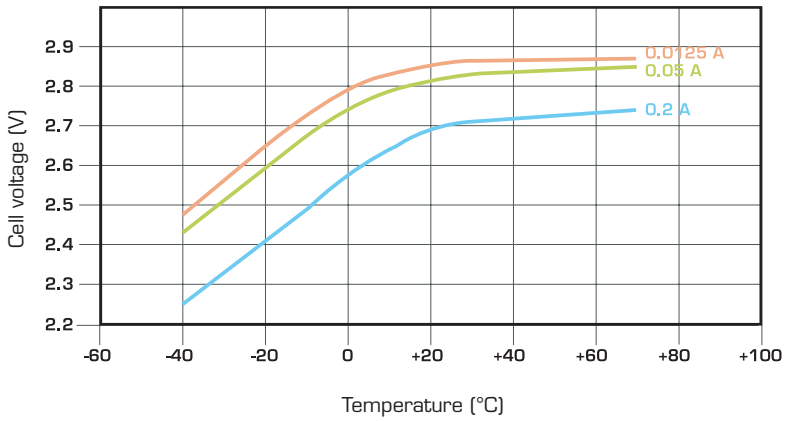
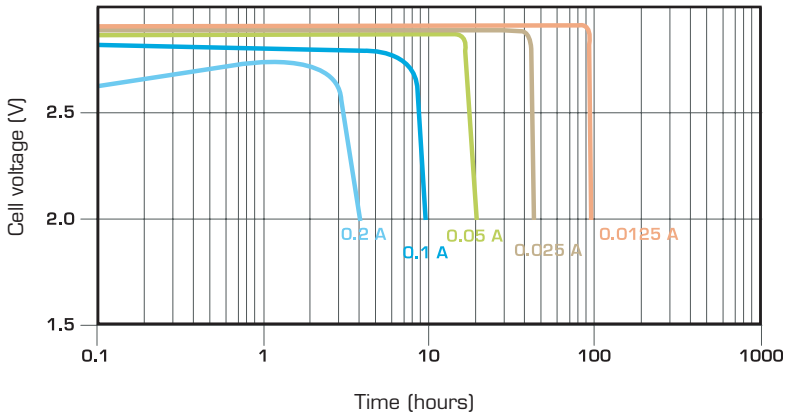


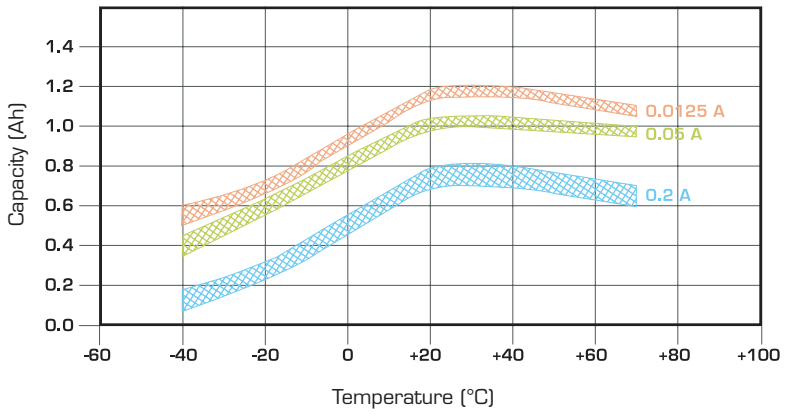
Overall dimensions in mm



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).

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Doc. N° 31060-2-1005

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

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