Primary lithium batteries G 04/3

3.0 V Primary lithium-sulfur dioxide (Li-SO₂) High drain capability 1/2 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

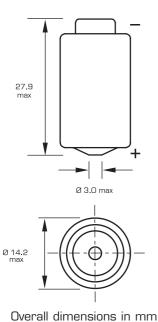
Main applications

- Radiocommunications and other military applications
- Memory back-up

Cell size ref	erence	1/2 AA
Electrical char	acteristics	
(typical values rela	tive to cells stored for one year or less at + 30°C max.)	
Nominal capacity (at 50 mA + 20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)		0.45 Ah
Open circuit voltaç	e (at + 20°C)	3.0 V
Nominal voltage	(at 0.03 A +20°C)	2.8 V
Continuous currer at +20°C with 2.0	It permitting 50% of the nominal capacity to be achieved 0.00% of the nominal capacity to be achieved	O.25 A
(The voltage readi the temperature a	ypically up to 0.4 A. ngs may vary according to the pulse characteristics, and the cell's previous history. Fitting the cell with a 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 chara	cteristics	
Diameter (max)		14.2 mm (0.56 in
Height (max)		27.9 mm (1.10 in
Typical weight		8 g (0.28 oz)



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Handling precautions

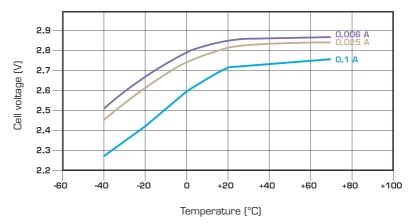
- · Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).

Saft Specialty Battery Group

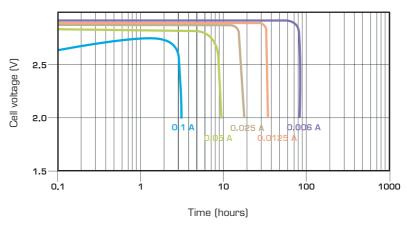
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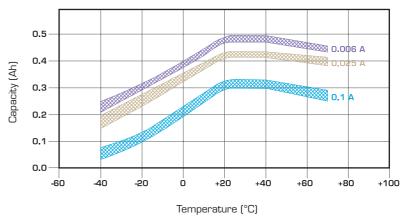




Voltage at mid-discharge versus Current and Temperature (2.0 V cut-off)



Typical discharge profiles at +20°C



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

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Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.

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

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