

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 reference

1/2 AA

Electrical characteristics

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

Nominal capacity <i>(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)</i>	0.45 Ah
Open circuit voltage (at +20°C)	3.0 V
Nominal voltage (at 0.03 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.	0.25 A

Pulse capability : Typically up to 0.4 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 <i>(recommended possible without leakage)</i>	+30°C (+86°F) max +85°C (+185°F) max
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Operating temperature range <i>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)</i>	-60°C/+70°C (-76°F/+158°F)
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Physical characteristics

Diameter (max)	14.2 mm (0.56 in)
Height (max)	27.9 mm (1.10 in)
Typical weight	8 g (0.28 oz)
Li metal content	0.14 g

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



