Primary lithium battery G 52/3

3.0 V Primary lithium-sulfur dioxide (Li-SO₂) High drain capability C-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 2 % after 1 year of storage at +20°C)
- Hermetic glass-to-metal sealing
- Built-in safety vent (at the negative end of the cell)
- Restricted for transport (class 9)
- Meets shock, vibration and other environmental requirements of military specifications
- Made in UK

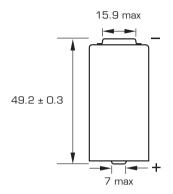
Main applications

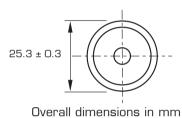
- Radiocommunications and other military applications
- Sonobuoys
- Life jacket lights
- Professional electronics
- Rescue devices

Electrical characteristics (typical values relative to cells stored for one year or less at +30°C max.) Nominal capacity (at 1.0 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) Nominal voltage (at 0.5 A +20°C) Nominal energy Maximum recommended continuous current (to avoid over-heating) Pulse capability: Typically up to 5 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) Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)	3.2 Ah 3.0 V 2.8 V 8.96 Wh
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(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)	+30°C (+86°F) max +85°C (+185°F) max
Physical characteristics	-60°C/+70°C (-76°F/+158°F)
Diameter (max)	25.6 mm (1.01 in)
Height (max)	49.5 mm (1.95 in)
Typical weight	47 g (1.6 oz)
Li metal content	



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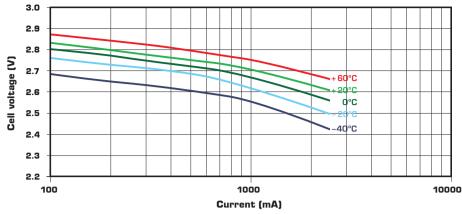




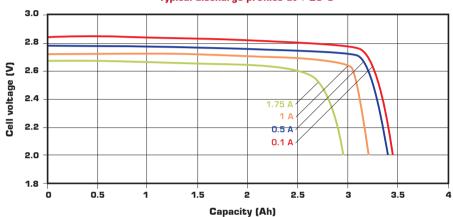
Handling precautions

- 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).

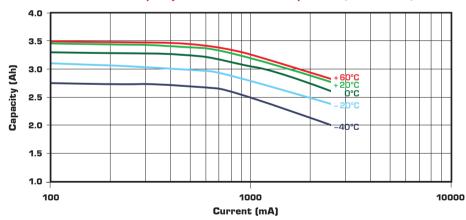
Voltage at mid-discharge versus Current and Temperature (2.0 V cut-off)



Typical discharge profiles at + 20°C



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



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