

# Primary lithium batteries

## G 26

3.0 V Primary lithium-sulfur dioxide (Li-SO<sub>2</sub>)  
 High drain capability  
 D-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)*
- 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
- Beacons and Emergency Location Transmitters
- Sonobuoys
- Life jacket lights
- Professional electronics
- Missiles

### Cell size reference

R20 - D

### Electrical characteristics

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

Nominal capacity 7.75 Ah  
*(at 0.25 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) 3.0 V

Nominal voltage (at 0.5 A +20°C) 2.8 V

Maximum recommended continuous current 2.5 A  
*(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) +30°C (+86°F) max  
 (possible without leakage) +85°C (+185°F) max

Operating temperature range -60°C/+70°C  
*(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)* (-76°F/+158°F)

### Physical characteristics

Diameter (max) 34.5 mm (1.36 in)

Height (max) 59.8 mm (2.35 in)

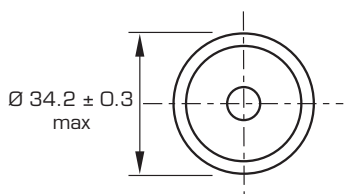
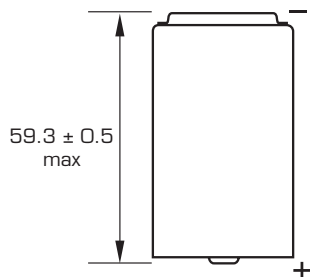
Typical weight 85 g (3 oz)

Li metal content 2.4 g

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



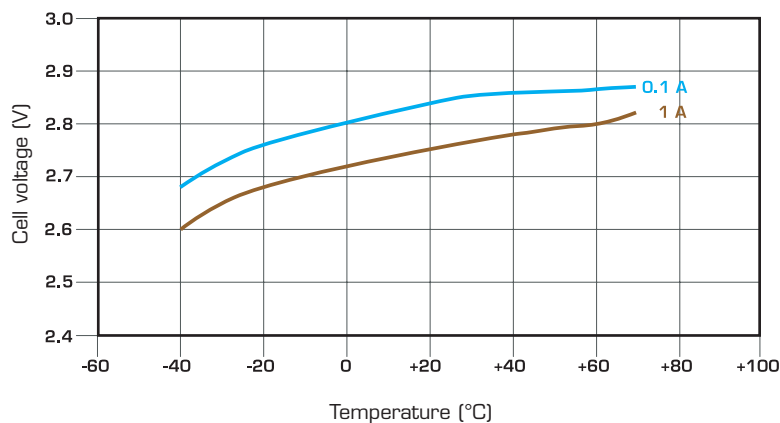
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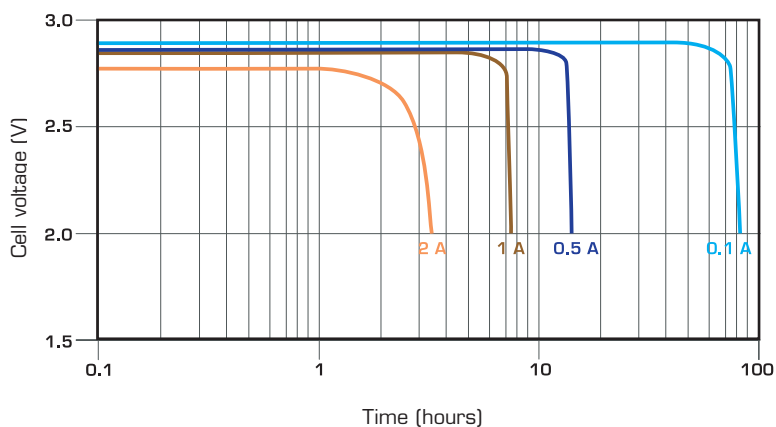
Overall dimensions in mm

## Handling precautions

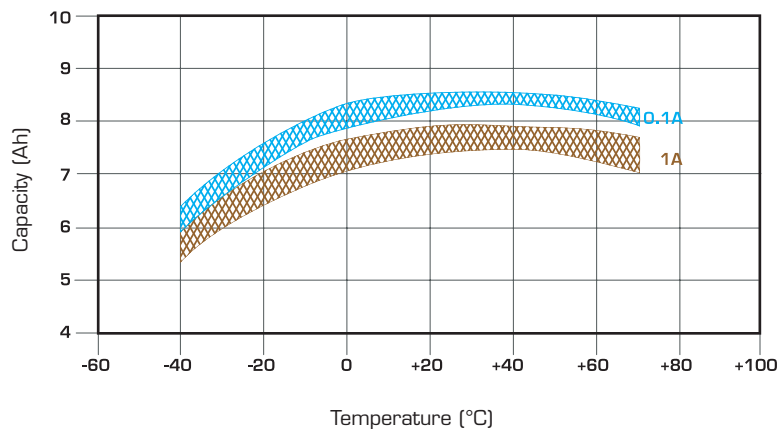
- Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).



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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