

Primary lithium batteries

G 22/6

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)
 High drain capability
 DD-size spiral cell



Benefits

- High and stable discharge voltage
- Very 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
- Professional electronics

Cell size reference

DD

Electrical characteristics

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

Nominal capacity 16.5 Ah
(at 0.5 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 1.0 A +20°C) 2.8 V

Maximum recommended continuous current
(to avoid overheating) 3 A

Pulse capability : Typically up to 10 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 -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)* 33.3 mm (1.31 in)

Height *(max)* 120.6 mm (4.75 in)

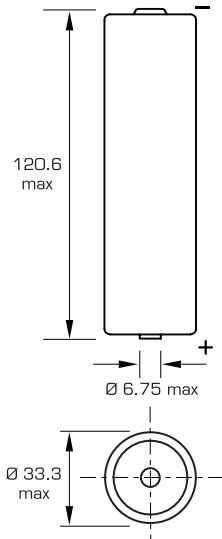
Typical weight 175 g (6.18 oz)

Li metal content 5.3 g

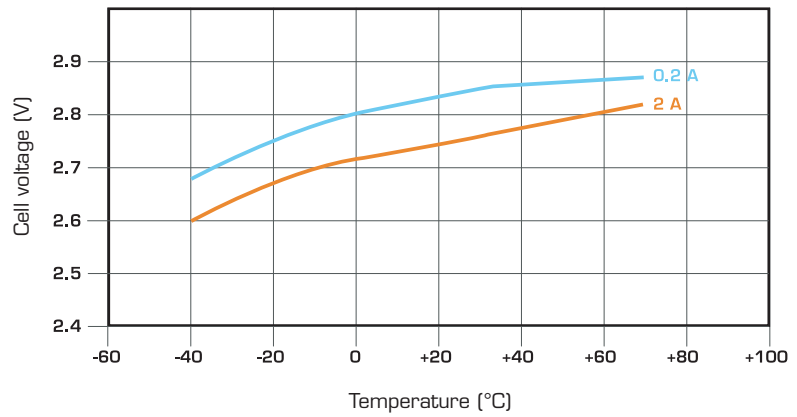
Standard cell comes with protruding positive end-cap.
 Finish with tabs available on request.



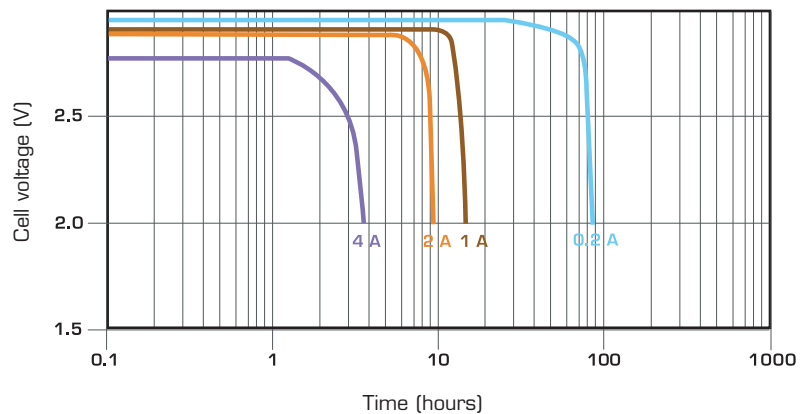
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Overall dimensions in mm



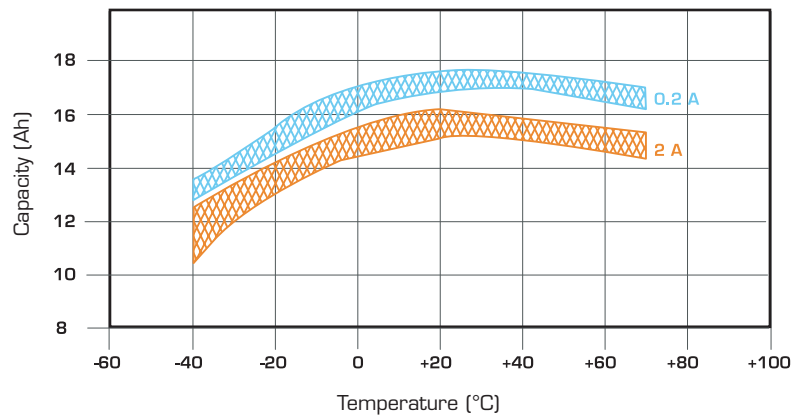
Voltage at mid-discharge versus Current and Temperature (2.0 V cut-off)



Typical discharge profiles at +20°C

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).



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

Saft

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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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