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

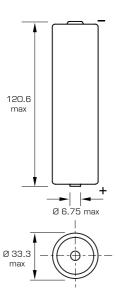
Main applications

- Radiocommunications and other military applications
- Professional electronics

Cell size re	ference	DD
Electrical cha	racteristics	
(typical values re	lative to cells stored for one year or less at +30°C max.)
	2.0 V cut off. The capacity restored by the cell varies rent drain, temperature and cut off)	16.5 Ah
Open circuit volta	age (at +20°C)	3.0 V
Nominal voltage	(at 1.0 A +20°C)	2.8 V
Maximum recom (to avoid overhea	mended continuous current ating)	3 A
(The voltage read the temperature	Typically up to 10 A. dings may vary according to the pulse characteristics, and the cell's previous history. Fitting the cell with a erecommended 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 char	acteristics	
Diameter (max)		33.3 mm (1.31 in)
Height <i>(max)</i>		120.6 mm (4.75 in)
Typical weight		175 g (6.18 oz)
,,	Li metal content	



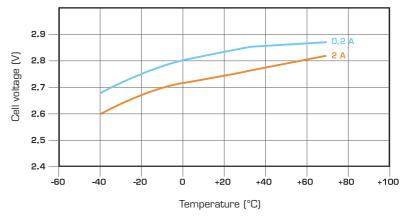
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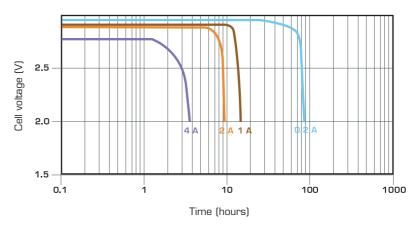
Overall dimensions in mm

Handling precautions

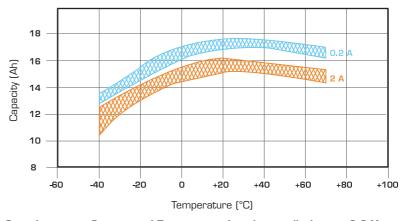
- Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).



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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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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