# Primary lithium batteries G 06/2

3.0 V Primary lithium-sulfur dioxide (Li-SO<sub>2</sub>) High drain capability 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

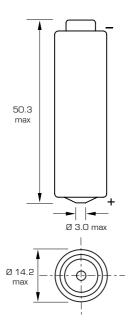
### **Main applications**

- Radiocommunications and other military applications
- Respirators
- Memory back-up
- Professional electronics

Cell size refere	nce	R6 - AA
Electrical charact	eristics	
- 21	to cells stored for one year or less at +30°C max.)	
	OV cut off. The capacity restored by the cell varies drain, temperature and cut off)	0.95 Ah
Open circuit voltage (	(at +20°C)	3.0 V
Nominal voltage (	(at 0.06 A +20°C)	2.8 V
Continuous current pe at +20°C with 2.0 V (	ermitting 50% of the nominal capacity to be achieved cut off.	0.5 A
the temperature and t	ally up to 0.8 A. may vary according to the pulse characteristics, the cell's previous history. Fitting the cell with a ommended in severe conditions. Consult Saft)	
	(recommended) (possible without leakage)	+30°C (+86°F) max +85°C (+185°F) max
Operating temperature (Operation above amb	(possible without leakage)	
Operating temperature (Operation above amb	(possible without leakage) e range eient T may lead to reduced capacity and lower e beginning of pulses. Consult Saft)	+85°C (+185°F) max -60°C/+70°C
Operating temperature (Operation above amb voltage readings at th	(possible without leakage) e range eient T may lead to reduced capacity and lower e beginning of pulses. Consult Saft)	+85°C (+185°F) max -60°C/+70°C
Operating temperature (Operation above amb voltage readings at the  Physical character  Diameter (max)	(possible without leakage) e range eient T may lead to reduced capacity and lower e beginning of pulses. Consult Saft)	+85°C (+185°F) max -60°C/+70°C (-76°F/+158°F)
Operating temperature (Operation above amb voltage readings at the	(possible without leakage) e range eient T may lead to reduced capacity and lower e beginning of pulses. Consult Saft)	+85°C (+185°F) max -60°C/+70°C (-76°F/+158°F) 14.2 mm (0.56 in)



## G 06/2



Overall dimensions in mm

### **Handling precautions**

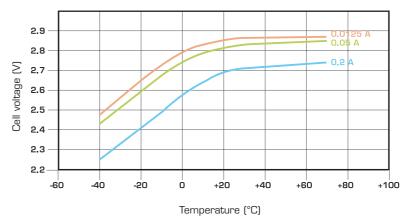
- Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).

### Saft Specialty Battery Group

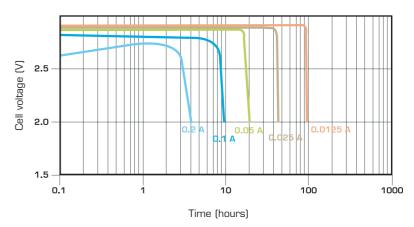
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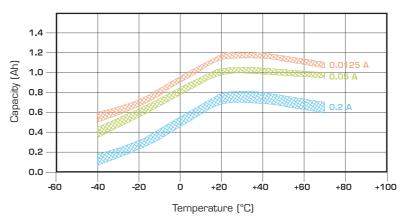
### www.saftbatteries.com



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)

Doc. N° 31060-2-1005

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  $N^\circ$  31048-2.

Published by the Communications Department.

Photo credit: Saft.

Société anonyme au capital de 31 944 000 €

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Produced by Arthur Associates.

