Primary lithium battery LS 14500

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High energy density AA-size bobbin cell



R6 - AA

Benefits

- Enhanced capacity
- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/+85°C)
- Easy integration into compact system
- Superior resistance to atmospheric corrosion

Key features

- Stainless steel container and end caps (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Low self-discharge rate (less than 1 % after 1 year of storage at + 20°C)
- Compliant with IEC 60079-11 intrinsic safety standard
- Underwriters Laboratories (UL)
 Component Recognition
 (File Number MH 12609)
- Non-restricted for transport

Main applications

- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Memory back-up
- Tracking systems
- Automotive electronics
- Professional electronics

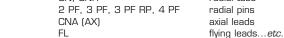
Electrical characteristics (typical values relative to cells stored for one year or less at + 30°C max.) 2.6 Ah Nominal capacity (at 2 mA + 20°C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off) 3.67 V Open circuit voltage (at + 20°C) Nominal voltage (at 0.2 mA + 20°C) 3.6 V Pulse capability: Typically up to 280 mA (280 mA/0.1 second pulses, drained every 2 mn at + 20°C from undischarged cells with 10 µA base current, yield voltage readings above 3.0 V. The 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)

Maximum recommended continuous current (Higher currents possible, consult Saft)		70 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°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/+85°C (-76°F/+185°F)

Physical characteristics

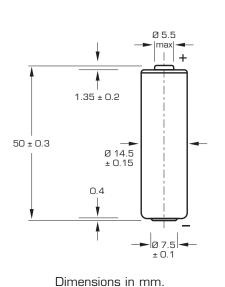
Cell size references

Diameter (max)		14.65 mm (0.58 in)
Height (max)		50.3 mm (1.98 in)
Typical weight		16.7 g (~ 0.6 oz)
Li metal content		approx. 0.7 g
Available termination suffix		
CN, CNR	radial tabs	
	10 I I I I	





LS 14500



• The storage area should be

clean, cool (preferably not

exceeding + 30°C), dry and

• Fire, explosion and burn hazard.

crush, disassemble, heat above

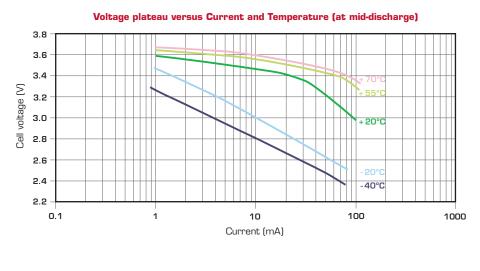
• Do not recharge, short circuit,

100°C (212°F), incinerate,

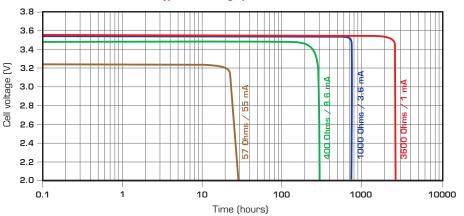
or expose contents to water.

• Do not solder directly to the cell

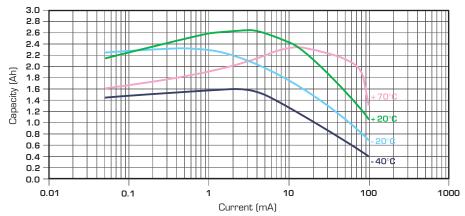
(use tabbed cell versions instead).







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



Saft

Storage

ventilated.

Warning

Specialty Battery Group

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www.saftbatteries.com

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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

Published by the Communications Department.

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Doc. Nº 31064-2-0408

Société anonyme au capital de 31 944 000€ RCS Bobigny B 383 703 873

Produced by Arthur Associates Limited.

