Primary lithium battery

LS 14500W

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) AA-size bobbin cell For demanding environments up to +95°C

For applications requesting superior voltage response and operating life in **W**idely fluctuating temperature environments up to +95°C.



Benefits

- High voltage, stable during most of the application's lifetime
- Superior voltage readings after exposure at elevated temperature
- Voltage readings during pulsing moderately affected by T fluctuations
- Low self-discharge rate (less than 1 % per year of storage at +20°C)
- Easy integration into compact systems
- Superior resistance to atmospheric corrosion

Key features

- Stainless steel container (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Underwriters Laboratories (UL)
 Component Recognition
- Compliant with IEC 60086-4 safety standard
- Non-restricted for transport/ Non-assigned to Class 9 according to the UN Recommendations on the transport of dangerous goods -Model Regulations
- Manufactured in France, China

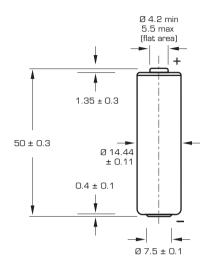
Main applications

- Electronic toll collection
- Identification and tracking systems
- Professional electronics
- Utility metering
- Automotive electronics
- · Alarms and security devices

Cell size refer	ences		R6 - AA
Electrical charact	teristics		
(typical values relat	ive to cells stored for one year	or less at +30°C	max.)
	2.0 V cut-off. The capacity res nt drain, temperature and cut-o		2.6 Ah Paries
Open circuit voltage	e (at +20°C)		3.67 V
Nominal voltage	(at 0.2 mA +20°C)		3.6 V
Nominal energy			9.36 Wh
drained every 2 mr current, yield voltag to the pulse charac	pically up to 250 mA (250 mA) at +20°C from undischarged ge readings above 3.0 V. The reteristics, the temperature, and a capacitor may be recommen	cells with 10 μA readings may vary d the cell's previou	base according ıs history.
	ended continuous current re possible. Consult Saft)		30 mA
Storage	(recommended) (for more severe conditions	, consult Saft)	+30°C (+86°F) max
Operating temperature range (Operation above ambient may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)			-60°C/+95°C (-76°F/+203°F)
Physical characte	eristics		
Diameter (max)			14.55 mm (0.57 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 terminatio	n suffix CN, CNR 2PF, 3PF, 3PF RP, 4PF CNA (AX) FL	radial tabs radial pins axial leads flying leads	etc.

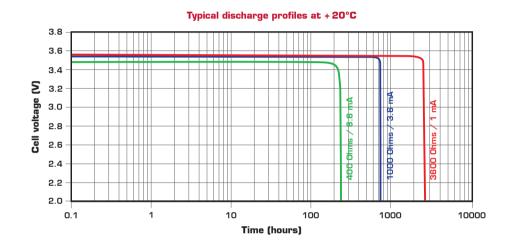


LS 14500W



Dimensions in mm.

Voltage plateau versus Current and Temperature (at mid-discharge) 3.8 3 6 3.4 +20°C Cell voltage (V) 32 3.0 2.8 2.6 40°C 2.4 0.1 10 100 1000 Current (mA)



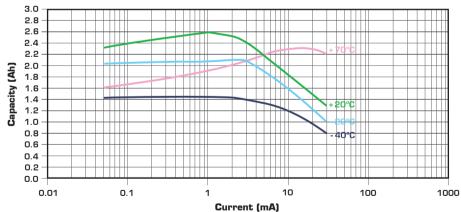
Storage

 The storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated.

Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 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 Specialty Battery Group

12, rue Sadi Carnot 93170 Bagnolet - France Tel.: +33 (O)1 49 93 19 18 Fax: +33 (O)1 49 93 19 69

www.saftbatteries.com

Doc. Nº 31055-2-0610

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€

RCS Bobigny B 383 703 873

Produced by Arthur Associates Limited.

