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 60079-11 intrinsic safety standard
- Non-restricted for transport

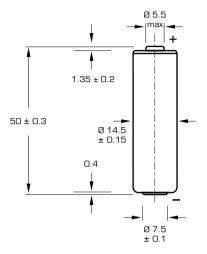
Main applications

- Electronic toll collection
- Identification and tracking systems
- Professional electronics

Cell size refe	rences		R6 - AA
Electrical charac	cteristics		
(typical values relati	ive to cells stored for one year or	less at +30°C ma.	x.]
Nominal capacity			2.6 Ah
	2.0 V cut-off. The capacity restore nt drain, temperature and cut-off)	ed by the cell varie.	5
Open circuit voltage	(at +20°C)		3.67 V
Nominal voltage	(at 0.2 mA +20°C)		3.6 V
drained every 2 min current, yield voltag to the pulse charac	pically up to 280 mA (280 mA/0. at +20°C from undischarged cell pe readings above 3.0 V. The reac teristics, the temperature, and th a capacitor may be recommended	ls with 10 µA base dings may vary acc ne cell's previous hi	ording story.
	ended continuous current e possible. Consult Saft)		70 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 charact	eristics		
Diameter (max)			14.65 mm (O.58 in)
Height (max)			50.3 mm (1.98 in)
Typical weight			16.7 g (O.6 oz)
Li metal content			approx. 0.7 g
Available termination	n suffix CN, CNR 2PF, 3PF, 3PF RP, 4PF CNA (AX) FL	radial tabs radial pins axial leads flying leads	etc.

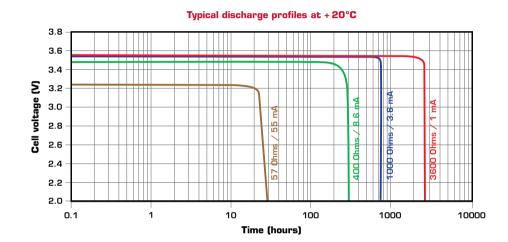


LS 14500W



Dimensions in mm.

Voltage plateau versus Current and Temperature (at mid-discharge) 3.8 3.6 3.4 Cell voltage (V) 3.2 3.0 -20°C 2.8 2.6 2.4 -40°C 2.2 0.1 10 100 1000 Current (mA)



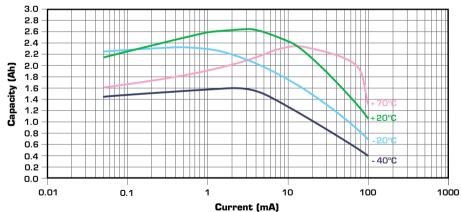
Storage

 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 (0)1 49 93 19 18 Fax: +33 (0)1 49 93 19 69

www.saftbatteries.com

Doc. N° 31055-2-0608

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.

Published by the Communications Department

Photo credit: Saft

Société anonyme au capital de 31 944 000 \in

RCS Bobigny B 383 703 873

Produced by Arthur Associates Limited.

