Primary lithium battery

LS 14500C

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂)
High energy density
AA-size bobbin cell
(recommended for cool temperature environments)

Preferably for moderate temperature uses (i.e. indoor applications with occasional T excursions up to +70°C) requesting superior voltage response and operating life.



Key features

- High and stable operating voltage
- Superior voltage response during pulsing at ambient T
- Up to 20 % more capacity than the standard version
- Low self-discharge rate (less than 1 % after 1 year of storage at + 20 °C)
- Stainless steel container and end caps (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and IEC 60079-11 intrinsic safety standard
- Underwriters Laboratories (UL)
 Component Recognition
 (File Number MH 12609)
- Non-restricted for transport

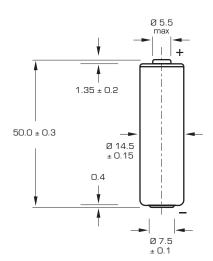
Main applications

- Utility metering
- Alarms and security devices
- Memory back-up
- Tracking systems
- Professional electronics

Cell size referenc	es		R6 – AA
Electrical characteris	tics		
(typical values relative to c	cells stored for one year or less	at + 30°C max.)	
Nominal capacity			2.7 Ah
	eut-off. The capacity restored by n, temperature and cut-off)	the cell varies	
Open circuit voltage	(at + 20°C)		3.67 V
Nominal voltage	(at 0.5 mA + 20°C)		3.6 V
Nominal energy			9.72 Wh
current, yield voltage read to the pulse characteristic	PO°C from undischarged cells willings above 3.0 V. The readings is, the temperature, and the cellicitor may be recommended in s	: may vary accord Il's previous histo	ry.
Maximum recommended of (Higher currents are poss			25 mA
Storage	(recommended) (for more severe conditions, c	consult Saft)	+ 30°C (+ 86°F) max
	nge rom ambient may lead to reduce e plateau readings. Consult Sai		- 60°C/+ 70°C (- 76°F/+ 158°F)
Physical characterist	ics		
Diameter (max)			14.65 mm (0.58 in)
Height (max)			50.3 mm (1.98 in)
Typical weight			16.2 g (0.6 oz)
Li metal content			approx. 0.7 g
Available termination suffix	:: CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL	radial tabs radial pins axial leads flying leadse	etc.

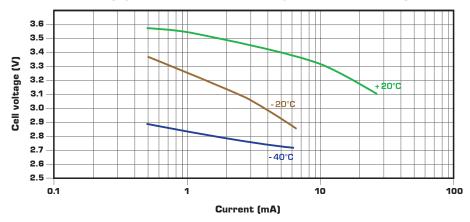


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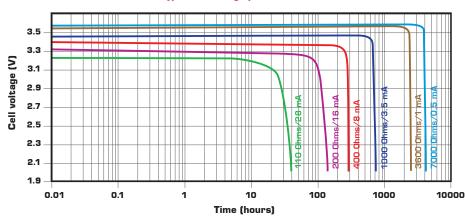


Dimensions in mm.

Voltage plateau versus Current and Temperature (at mid-discharge)



Typical discharge profiles at + 20°C



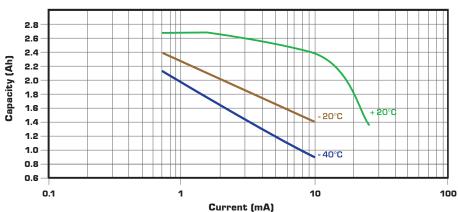
Storage

 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)



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Doc. Nº 31012-2-1008

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.

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Produced by Arthur Associates Limited.

