Primary lithium batteries LS 14500C

3.6V Primary lithium-thionyl chloride (Li-SOCI₂) 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 + 55°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 EN 50020 intrinsic safety standard
- Underwriters Laboratories (UL) Component Recognition (File Number MH 12609)
- Non-restricted for transport

Main applications

- Utility metering
- Alarms and security devices

etc...

- Memory back-up
- Tracking systems
- Professional electronics

e references		

CNA (AX)

FL

Electrical characteristics

Cell size

(typical values rela	tive to cells stored for one year or l	ess at + 30°C m	ax.)
•	2.0V cut off. The capacity restored ent drain, temperature and cut off).	by the cell varies	2.7 Ah s
Open circuit voltag	ge (at + 20°C)		3.67V
Nominal voltage	(at 0.5 mA + 20°C)		3.6V
drained every 2 m current, yield volta to the pulse chara	ypically up to 150 mA (150 mA/0. on at $+ 20^{\circ}$ C from undischarged cell age readings above 3.0V. The readin acteristics, the temperature, and the h a capacitor may be recommended	's with 10 μA ba ngs may vary acc e cell's previous f	cording history.
	t permitting 50% of the nominal ca + 20°C with 2.0V cut off.	pacity	25 mA
(Higher currents p	oossible, consult Saft)		
Storage	(recommended) (for more severe conditions, col	nsult Saft)	+ 30°C (+ 86°F) max
Operating temperature range (Operation at T different from ambient may lead to reduced capacity and lower voltage plateau readings. Consult Saft)		- 60°C/+ 70°C (- 76°F/+ 158°F)	
Physical chara	cteristics		
Diameter <i>(max)</i>			14.65 mm (0.58 in)
Height <i>(max)</i>			50.3 mm (1.98 in)
Typical weight			16.2 g (0.6 oz)
Li metal content			approx. 0.7 g
Available terminati			
	CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF	radial tabs radial pins	

axial leads flying leads ...etc.



Jml

Sart

= RI

3.6V

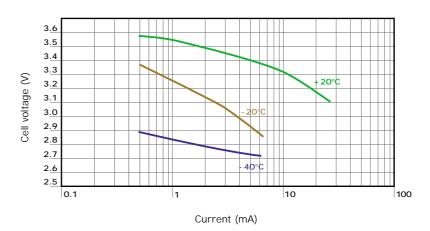
U-SOCI

UM3 - R6 - AA

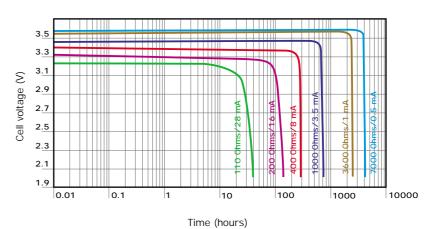
LS 14500C

Ø 5.5

Ø 7.5 ± 0.1



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



Typical discharge profiles at +20°C

Storage

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

 1.6 ± 0.3

0.4

4

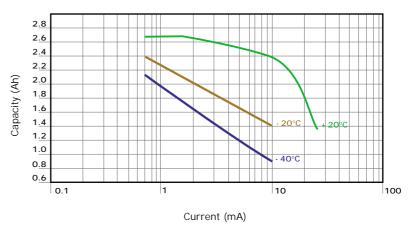
Dimensions in mm.

Ø 14.5 ± 0.15

50.0 ± 0.3

Warning

- Fire, explosion and severe 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.





Saft

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