

LS 14500

3.6 V Primary lithium - thionyl chloride (Li-SOCl₂) High Drain AA-size cell



For applications with continuous currents up to 120 mA, possibly combined with pulsing and exposure to extreme temperatures

Key features

- High and stable operating voltage
- Superior drain capability
- Low self discharge rate
(less than 1% after 1 year of storage at +20°C)
- Stainless steel container
- Hermetic glass-to-metal sealing
- Non flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- Underwriters Laboratories (UL) Component Recognition (File Number MH 12609)
- Non restricted for transport

Main applications

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

Cell size reference

R6 - AA

Electrical characteristics

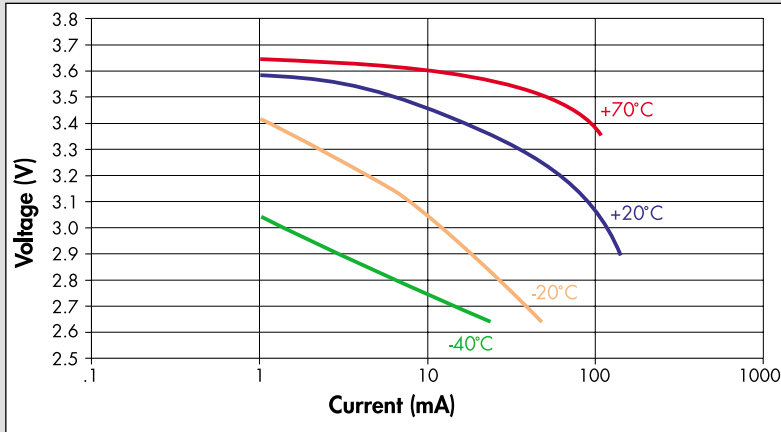
(typical values for cells stored for one year or less)

Nominal capacity	2.25 Ah
<i>(at 3 mA +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).</i>	
Open circuit voltage (at +20°C)	3.67 V
Nominal voltage (at 0.2 mA +20°C)	3.6 V
Maximum recommended continuous current	120 mA
<i>(to get 50% of the nominal capacity at +20°C with 2 V cut off. Higher currents possible, consult Saft).</i>	
Pulse capability : varies according to pulse characteristics (frequency, duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage. Consult Saft.	
Storage (recommended) (possible without leakage)	+30°C max -60/+120°C
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses).	-60/+85°C
Physical characteristics	
Diameter (max)	14.5 mm (0.57")
Height (max)	50.3 mm (1.98")
Typical weight	16 g
Available termination suffix	CN, CNR, (STS) 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL
	radial tabs radial pins axial leads flying leads ...etc.

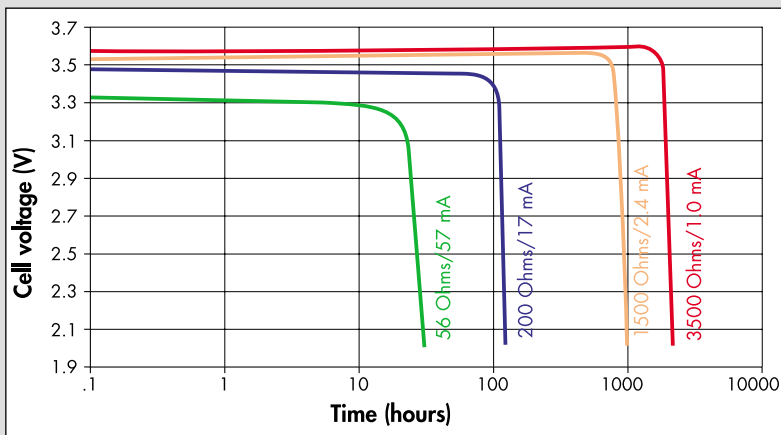


LS 14500

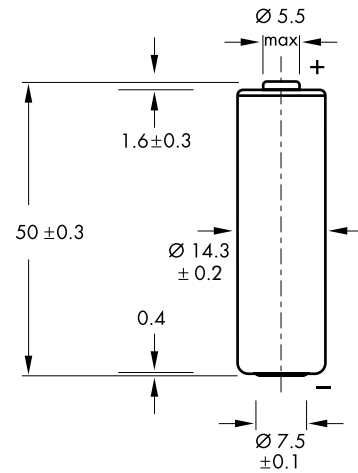
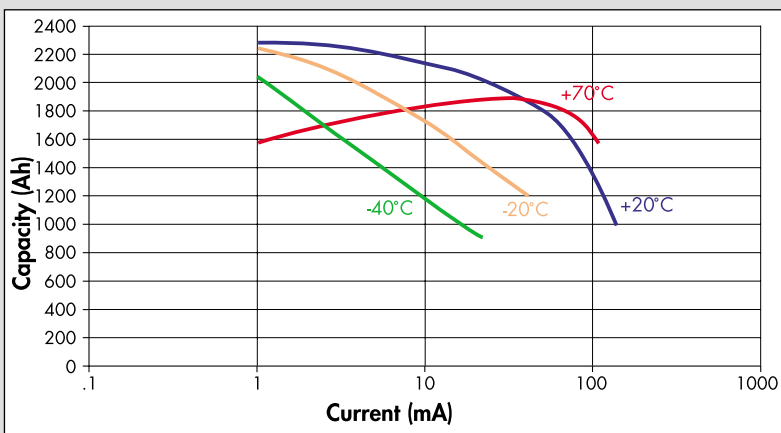
Voltage plateau versus Current and Temperature (at mid-discharge)



Discharge profiles at +20°C



Capacity versus Current and Temperature (2.0 V cut off)



dimensions in mm



12, rue Sadi Carnot
 93170 Bagnolet - France
 Tel +33 (0)1 49 93 17 70
 Fax +33 (0)1 49 93 19 69
 Internet: <http://www.saftbatteries.com>
 Doc. N° 12.00 - 31011.2
 Published by the Communications Department

Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.