

## LS 14500 LST 14500

### 3.6 V Primary lithium - thionyl chloride (Li-SOCl<sub>2</sub>) High Drain AA-size cells



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

#### 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	-60/+85°C
<i>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses).</i>	

#### Physical characteristics

	LS 14500	LST 14500
Diameter (max)	14.65 mm (0.58 in)	14.55 mm (0.57 in)
Height (max)	50.3 mm (1.98 in)	49.80 mm (1.97 in)
Typical weight	16.2 g	17.4 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.

#### Key features

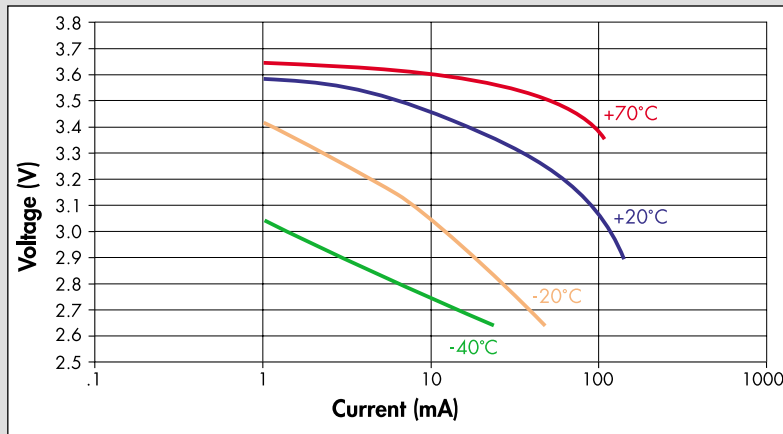
- High and stable operating voltage
- Superior drain capability
- Low self discharge rate  
*(less than 1% after 1 year of storage at +20°C)*
- Stainless steel container
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- Underwriters Laboratories (UL) Component Recognition  
- LS 14500 File Number MH 12609  
- LST 14500 File Number MH 12802
- Non-restricted for transport

#### Main applications

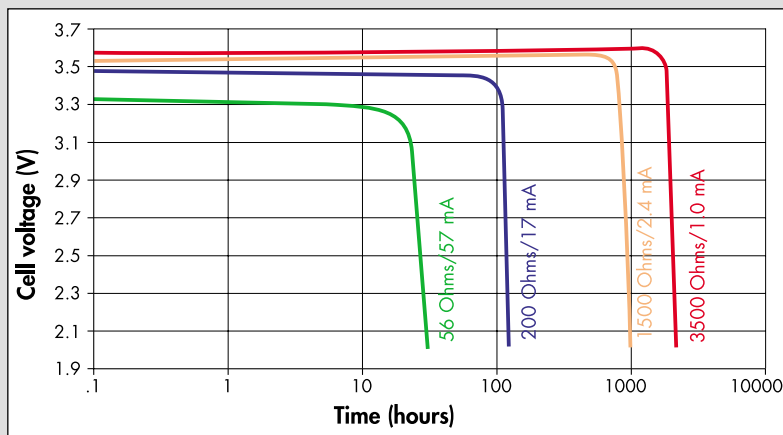
- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Memory back-up
- Tracking systems
- Automotive electronics
- Professional electronics
- ... etc.



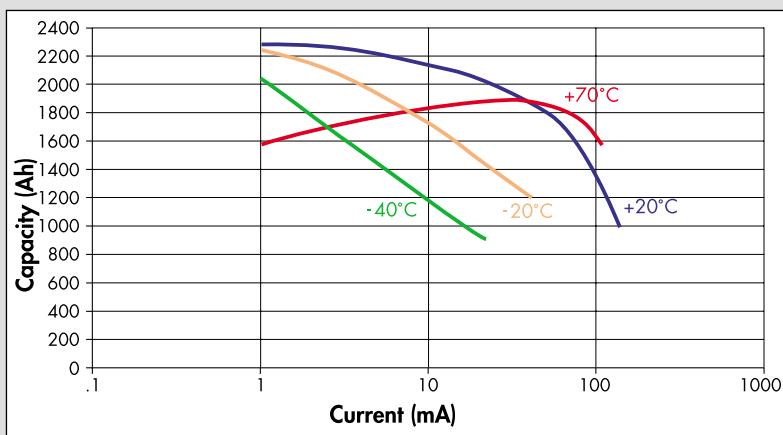
**Voltage plateau versus Current and Temperature (at mid-discharge)**



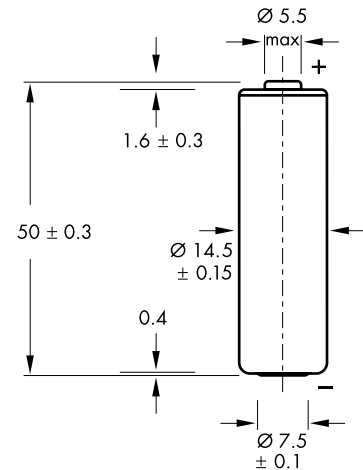
**Discharge profiles at +20°C**



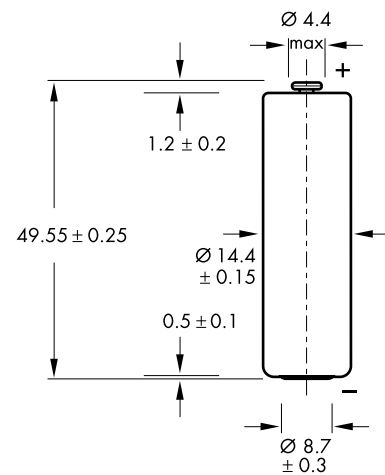
**Capacity versus Current and Temperature (2.0 V cut off)**



## LS 14500



## LST 14500



**dimensions in mm**



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