

LS 14250

**3.6 V Primary
lithium - thionyl
chloride (Li-SOCl₂)
High Drain
½ AA-size cell**



For applications with continuous currents up to 40 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
- 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
- Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics
- ... etc.

Cell size reference

½ R6 - ½ AA

Electrical characteristics

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

Nominal capacity	1.0 Ah
<i>(at 1.5 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 0.1 mA +20°C)	3.6 V
Maximum recommended continuous current	40 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

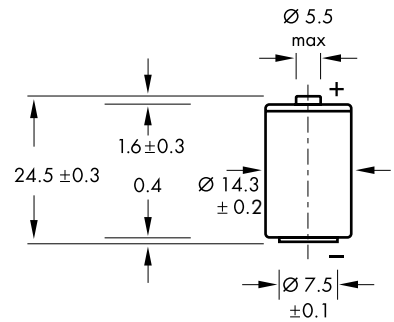
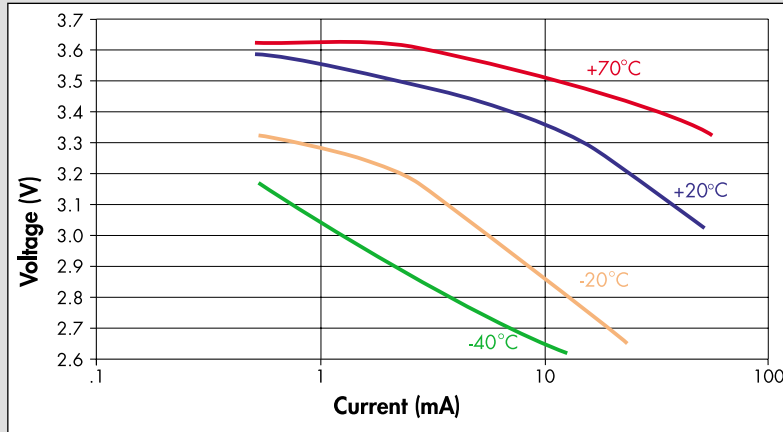
Physical characteristics

Diameter (max)	14.5 mm (0.57")
Height (max)	24.8mm (0.98")
Typical weight	8.5 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.



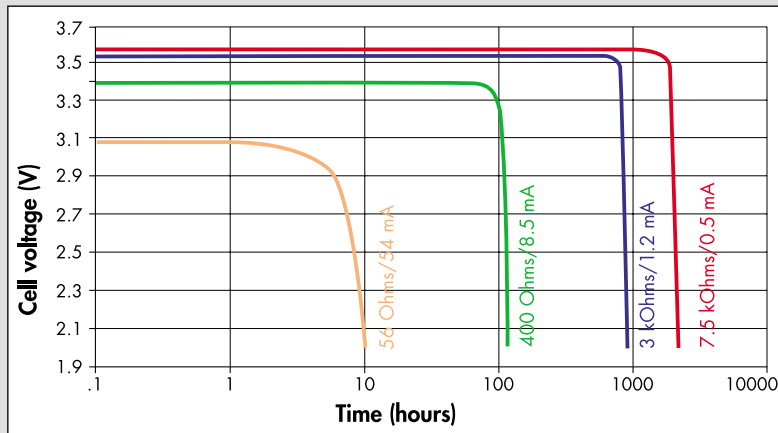
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Voltage plateau versus Current and Temperature (at mid-discharge)

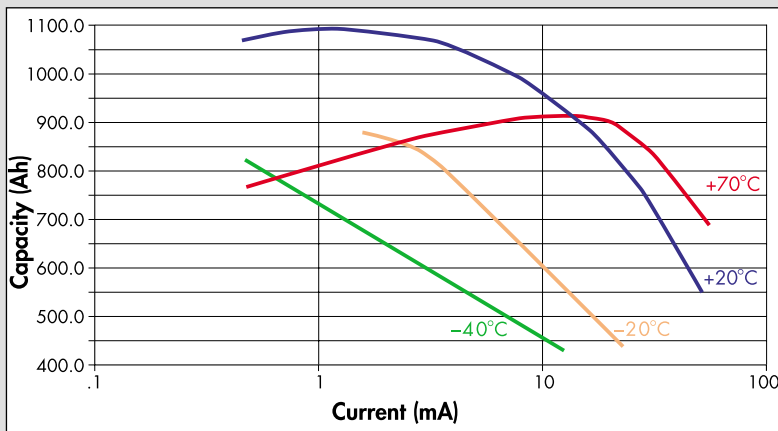


dimensions in mm

Discharge profiles at +20°C



Capacity versus Current and Temperature (2.0 V cut off)



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