

## LS 14250

**3.6 V primary lithium thionyl chloride (Li-SOCl<sub>2</sub>) High Energy Density bobbin ½ AA-size cell**



For applications requesting good voltage response and operating life in -60/+85°C environments.

### Cell size references

½ UM3 - ½ R6 - ½ AA

### Electrical characteristics

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

Nominal capacity 1.0 Ah

*(at 1.5 mA +20°C 2 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)*

Open circuit voltage (at +20°C) 3.67 V

Nominal voltage (at 0.1 mA +20°C) 3.6 V

*Pulse capability : Typically up to 15 mA. (Varies according to pulse characteristics, temperature, cell history and the application's acceptable minimum voltage. Fitting the cell with a capacitor may be recommended in severe conditions. Consult Saft)*

Continuous current permitting 50% of the nominal capacity to be achieved at +20°C with 2 V cut off. (Higher currents possible, consult Saft) 40 mA

Storage (recommended) +30°C max  
*(for more severe conditions, consult Saft)*

Operating temperature range -60/+85°C

*(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)*

### Other characteristics

Li metal content approx. 0.3 g

Diameter (max) 14.65 mm (0.58 in)

Height (max) 24.8 mm (0.98 in)

Typical weight 8.9 g

Available termination suffix	CN, CNR	radial tabs
	2 PF, 3 PF, 3 PF RP, 4 PF	radial pins
	CNA (AX)	axial leads
	FL	flying leads ...etc.

### Key features

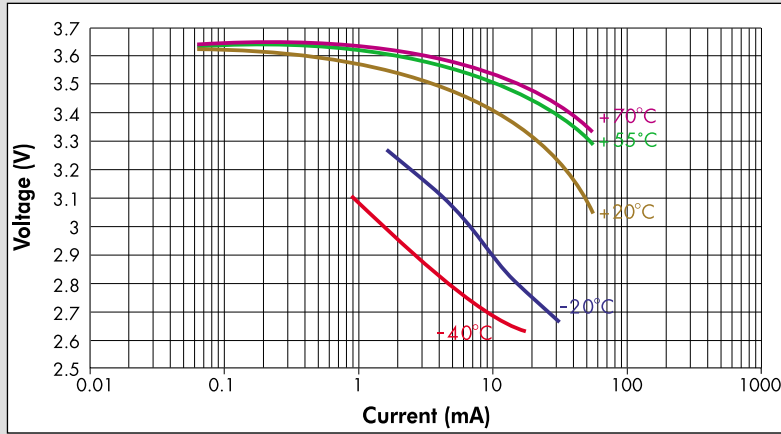
- High and stable operating voltage
- Low self discharge rate  
*(less than 1% after 1 year of storage at +20°C)*
- Stainless steel container and end caps  
*(low magnetic signature)*
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard
- Underwriters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

### Main applications

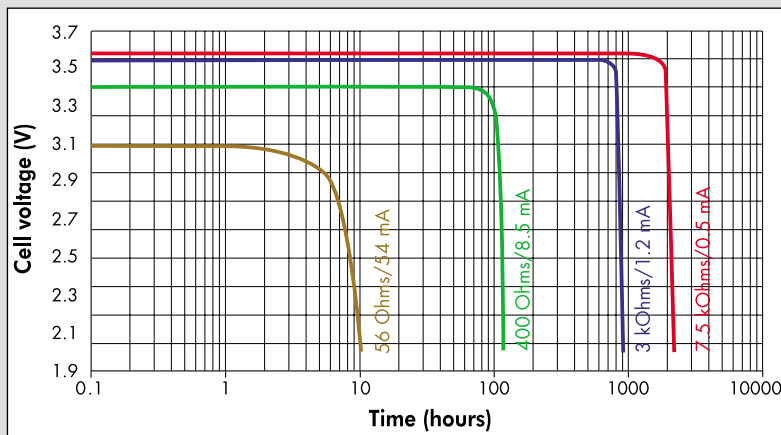
- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Memory back-up
- Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics
- ... etc.



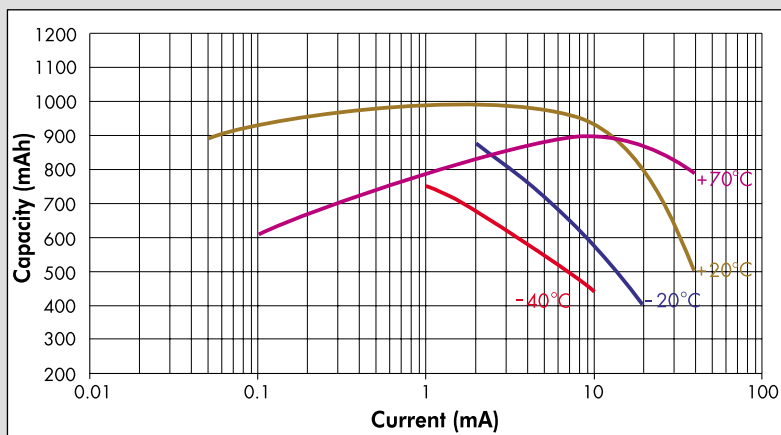
**Voltage plateau versus Current and Temperature (at mid-discharge)**



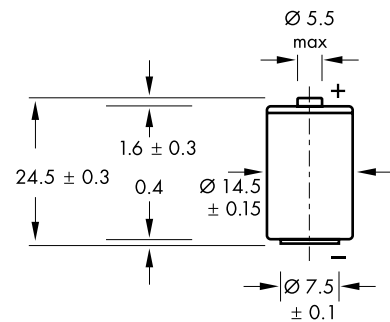
**Typical discharge profiles at +20°C**



**Restored Capacity versus Current and Temperature (2 V cut off)**



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**dimensions in mm**



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[www.saftbatteries.com](http://www.saftbatteries.com)

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