

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

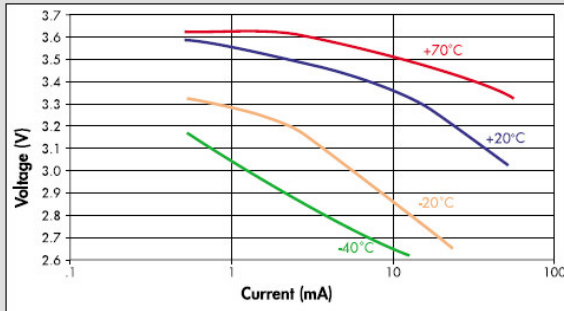
Main applications

- 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.

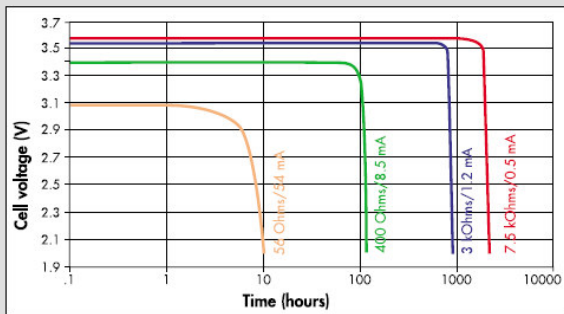
Cell size reference	½ R6 - ½ AA
Electrical characteristics <i>(typical values for cells stored for one year or less)</i>	
Nominal capacity <i>(at 1.5 mA +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).</i>	1.0 Ah
Open circuit voltage <i>(at +20°C)</i>	3.67 V
Nominal voltage <i>(at 0.1 mA +20°C)</i>	3.6 V
Maximum recommended continuous current <i>(to get 50% of the nominal capacity at +20°C with 2 V cut off. Higher currents possible, consult Saft).</i>	40 mA
Pulse capability : <i>varies according to pulse characteristics (frequency, duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage. Consult Saft.</i>	
Storage <i>(recommended possible without leakage)</i>	+30°C max -60/+120°C
Operating temperature range <i>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses).</i>	-60/+85°C
Physical characteristics	
Diameter <i>(max)</i>	14.5 mm (0.57")
Height <i>(max)</i>	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.



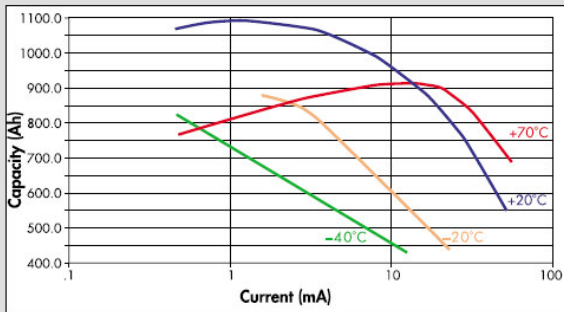
Voltage plateau versus Current and Temperature (at mid-discharge)



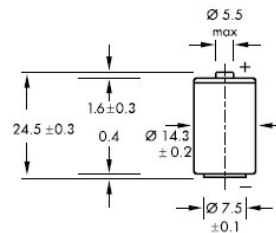
Discharge profiles at +20°C



Capacity versus Current and Temperature (2.0 V cut off)



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dimensions in mm



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