LS 14500

3.6 V primary lithium thionyl chloride ($Li\text{-}SOCl_2$) High Energy Density bobbin AA-size cell

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

Cell size references		**UM3 - R6 - AA**
Electrical characteristics		
(typical values for cells stored for one year or less)		
Nominal capacity *(at 2 mA +20°C 2 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)*		2.25 Ah
Open circuit voltage	*(at +20°C)*	3.67 V
Nominal voltage	*(at 0.2 mA +20°C)*	3.6 V
Pulse capability : Typically up to 25 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)*		100 mA
Storage	*(recommended)* *(for more severe conditions, consult Saft)*	+30°C max
Operating temperature range *(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)*		–60/+85°C
Other characteristics		
Li metal content		approx. 0.6 g
Diameter *(max)*		14.65 mm (0.58 in)
Height *(max)*		50.3 mm (1.98 in)
Typical weight		16.2 g
Available termination suffix	CN, CNR 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
- 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 and EN 50020 intrinsic safety
- 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
- Tracking systems
- Automotive electronics
- Professional electronics

... etc.

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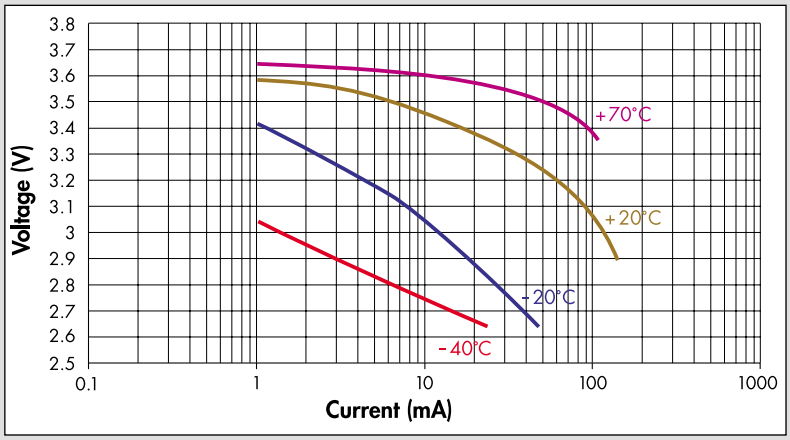
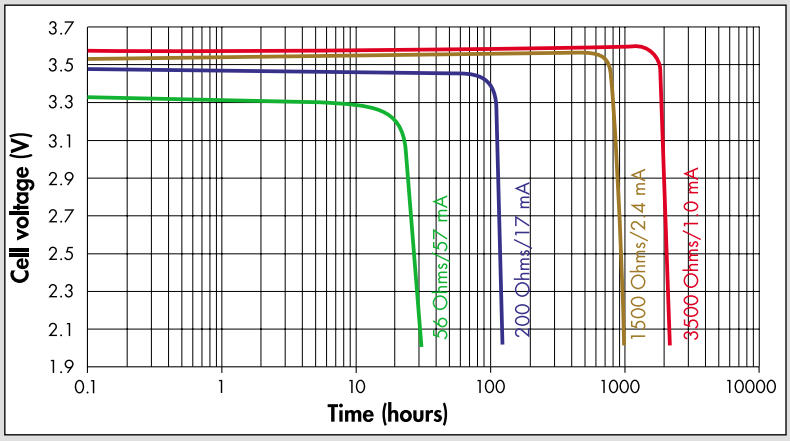
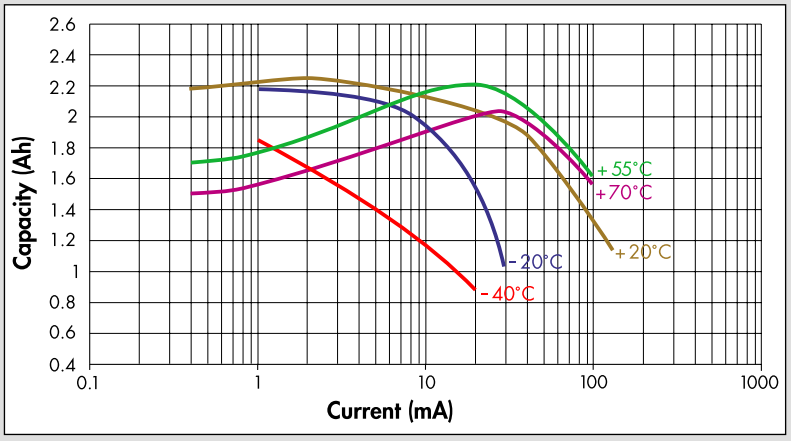
Voltage plateau versus Current and Temperature (at mid-discharge)



Typical discharge profiles at +20°C



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



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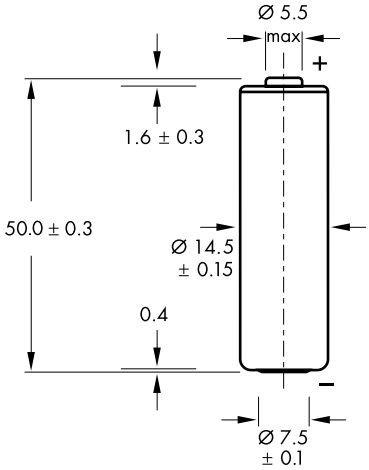

dimensions in mm

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