

## LS 14500 C

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



For applications with continuous currents up to 25 mA, possibly combined with pulsing and exposure to temperatures not repeatedly exceeding +40°C.

#### Key features

- High and stable operating voltage
- High minimum voltage during pulsing
- Up to 20% more capacity than the high drain version
- 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 (File Number MH 12609)
- Non restricted for transport

#### Main applications

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

#### Cell size reference

R6 - AA

#### Electrical characteristics

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

Nominal capacity 2.75 Ah  
(at 1 mA +20°C 2.0 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 0.5 mA +20°C) 3.6 V

Maximum recommended continuous current 25 mA  
(to get 50% of the nominal capacity at +20°C with 2 V cut off. Higher currents possible, consult Saft).

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) +30°C max  
(possible without leakage) -60/+120°C

Operating temperature range -60/+40°C  
(Operation at T different from ambient may lead to reduced capacity and lower voltage plateau readings).

#### Physical characteristics

Diameter (max) 14.5 mm (0.57")

Height (max) 50.3 mm (0.98")

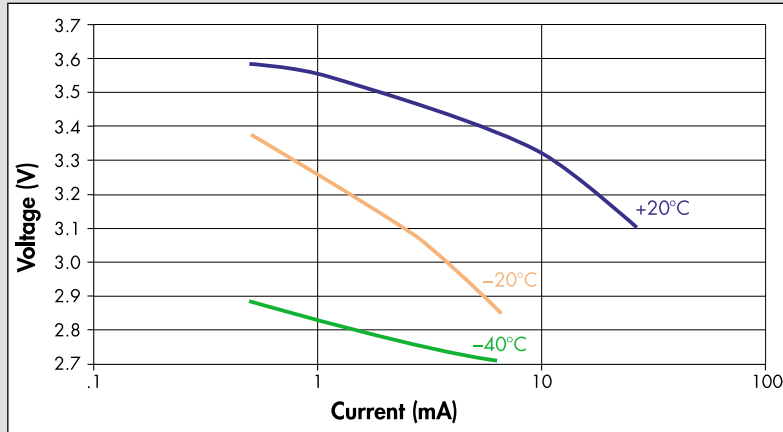
Typical weight 16 g

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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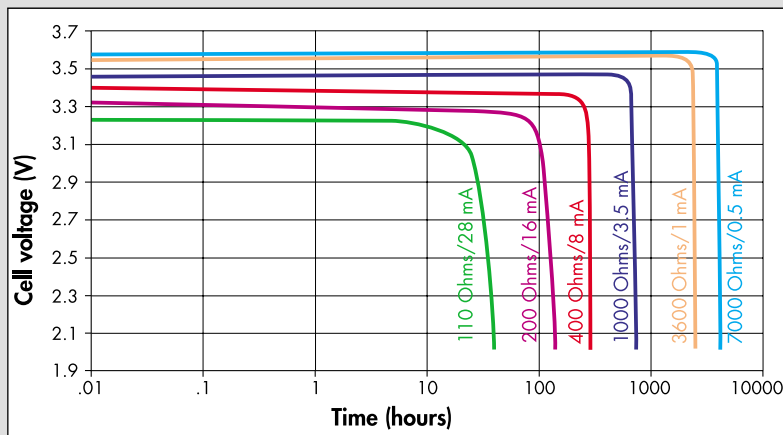


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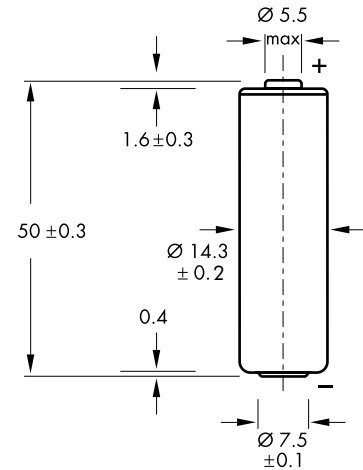
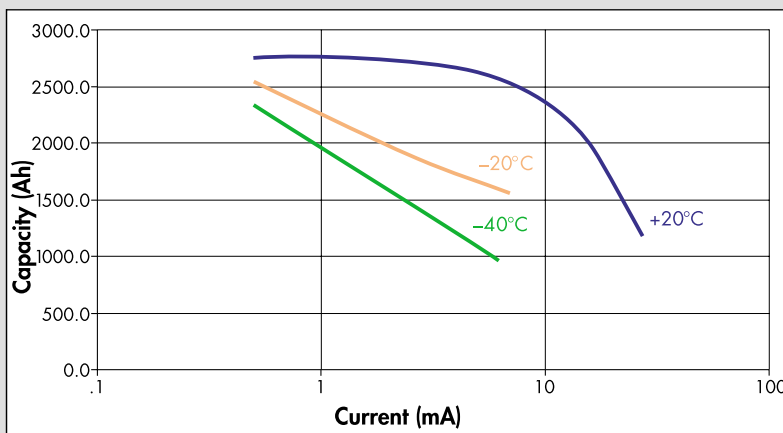
**Voltage plateau versus Current and Temperature (at mid-discharge)**



**Discharge profiles at +20°C**



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



**dimensions in mm**



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