

Primary lithium batteries

LST 17330

3.6V Primary lithium-thionyl chloride (Li-SOCl₂)

High energy density

²/₃ A-size bobbin cell

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



Key features

- High and stable operating voltage
- Low self-discharge rate
(less than 1% after 1 year of storage at +20°C)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety standard
- Underwriters Laboratories (UL) Component Recognition (File Number MH 12802)
- Non-restricted for transport

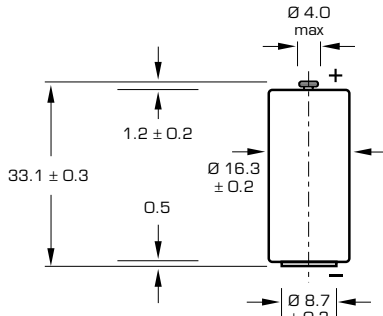
Main applications

- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Memory back-up
- Tracking systems
- Automotive electronics
- Professional electronics

etc...

Cell size reference		² / ₃ A
Electrical characteristics		
<i>(typical values relative to cells stored for one year or less at +30°C max.)</i>		
Nominal capacity <i>(at 3 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).</i>		2.1 Ah
Open circuit voltage (at +20°C)		3.67V
Nominal voltage (at 0.2 mA +20°C)		3.6V
Pulse capability: Typically up to 120 mA (120 mA/D.1 second pulses, drained every 2 mn at +20°C from undischarged cells with 10 µA base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history. 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 2.0V cut off. <i>(Higher currents possible, consult Saft)</i>		25 mA
Storage <i>(recommended for more severe conditions, consult Saft)</i>		+30°C (+86°F) max
Operating temperature range <i>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)</i>		-60°C/+85°C (-76°F/+185°F)
Physical characteristics		
Diameter (max)		16.5 mm (0.65 in)
Height (max)		33.4 mm (1.31 in)
Typical weight		14.4 g (0.5 oz)
Li metal content		approx. 0.6 g
Available termination suffix		
CNR, CNR OP		rectangular radial tabs
2 PF, 3 PF, 3 PF RP		radial pins
CNA (AX)		axial leads

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Dimensions in mm.

Storage

- The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

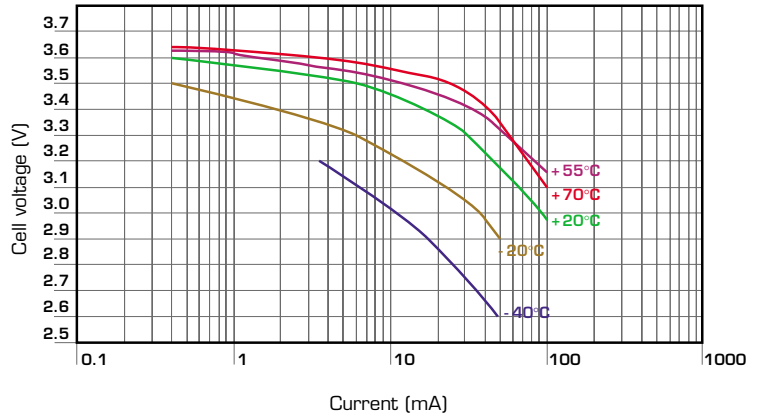
- Fire, explosion and severe burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell.

Saft

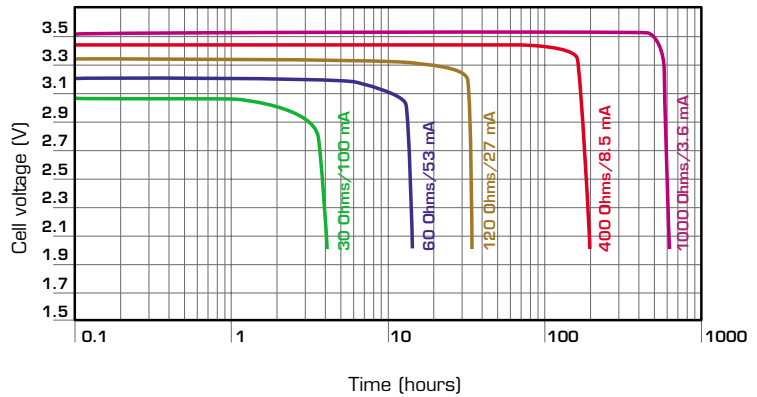
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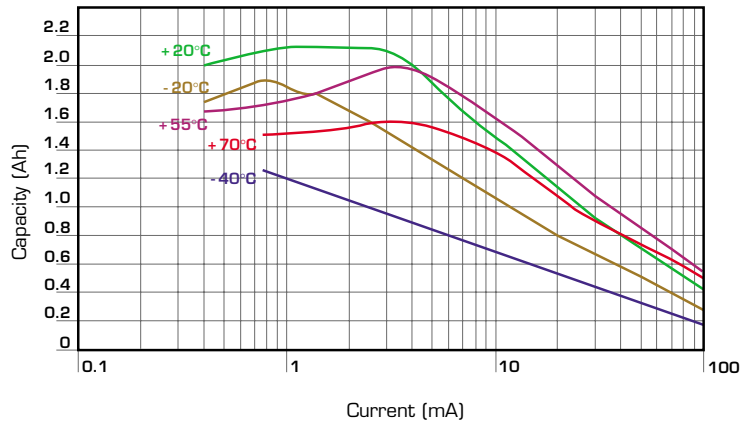
www.saftbatteries.com



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



Typical discharge profiles at +20°C



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

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