Primary lithium batteries LS 14500 LST 14500

3.6V Primary lithium-thionyl chloride (Li-SOCI2) High energy density AA-size bobbin cells

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



UM3 - R6 - AA

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) for LS 14500
- 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**
 - LS 14500 File Number MH 12609
 - LST 14500 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

Cell size references	
Electrical electronistica	

Electrical characteristics			
(typical values relative to cells store	d for one year or less at +30°C r	max.)	
Nominal capacity (at 2 mA + 20°C 2.0V cut off. The according to current drain, tempera		2.25 Ah es	
Open circuit voltage (at + 20°C)		3.67V	
Nominal voltage (at 0.2 mA	+ 20°C)	3.6V	
Pulse capability: Typically up to 280 mA (280 mA/ 0.1 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% to be achieved at + 20°C with 2.0V (Higher currents possible, consult S	cut off.	100 mA	
Storage (recommend (for more se	led) evere conditions, consult Saft)	+30°C (+86°F) max	
Operating temperature range (Operation above ambient T may lea lower voltage readings at the beginn		-60°C/+85°C (-76°F/+185°F)	
Physical characteristics	LS 14500	LST 14500	
Diameter <i>(max)</i>	14.65 mm (0.58 in)	14.4 mm (0.57 in)	
Height (max)	50.3 mm (1.98 in)	49.8 mm (1.97 in)	
Typical weight	16.2 g (0.5 oz)	17.4 g (0.6 oz)	
Li metal content	approx. 0.6 g	approx. 0.6 g	

Available termination suffix

CN, CNR

CNA (AX)

FL

etc...





LS 14500



LST 14500



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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LS 14500 - Voltage plateau versus Current and Temperature (at mid-discharge)









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