Primary lithium battery LS 14500

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High energy density AA-size bobbin cell



Benefits

- Enhanced capacity
- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/+85°C)
- Low self-discharge rate (less than 1 % after 1 year of storage at +20°C)
- Easy integration into compact systems
- Superior resistance to atmospheric corrosion

Key features

- Stainless steel container and end caps (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard (class T3 assignment)
- Underwriters Laboratories (UL)
 Component Recognition
- Non-restricted for transport/ Non-assigned to Class 9 according to the UN Recommendations on the transport of dangerous goods
 Model Regulations
- Manufactured in France, UK, China

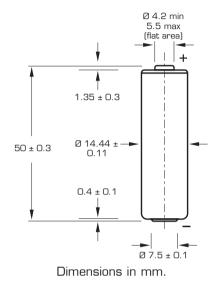
Main applications

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

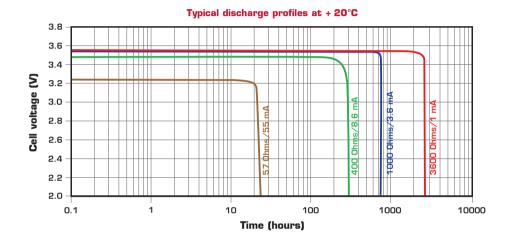
Cell size refere	ences		R6 - AA
Electrical charac	teristics		
(typical values relativ	e to cells stored for one year or	less at +30°C max	.]
	OV cut-off. The capacity restore drain, temperature and cut-off)		2.6 Ah
Open circuit voltage	(at +20°C)		3.67 V
Nominal voltage	(at 0.2 mA +20°C)		3.6 V
Nominal energy			9.36 Wh
undischarged cells w 3.0 V. The readings temperature, and the	eally up to 250 mA d pulses, drained every 2 mn at ith 10 µA base current, yield vol may vary according to the pulse e cell's previous history. Fitting th d in severe conditions. Consult i	tage readings above characteristics, the ne cell with a capacit	9
Maximum recommen (Higher currents pos	ded continuous current sible, consult Saft)		50 mA
Storage	(recommended) (for more severe conditions,	consult Saft)	+30°C (+86°F) 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°C/+85°C (-76°F/+185°F)
Physical characte	eristics		
Diameter (max)			14.55 mm (0.57 in)
Height (max)			50.3 mm (1.98 in)
Typical weight			16.7 g (~ 0.6 oz)
Li metal content			approx. 0.7 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 <i>etc</i> .	



LS 14500



Voltage plateau versus Current and Temperature (at mid-discharge) 3.8 3.6 3.4 Cell voltage (V) 3.2 3.0 - 20°C 2.8 2.6 2.4 40°C 22 0.1 10 100 1000 Current (mA)



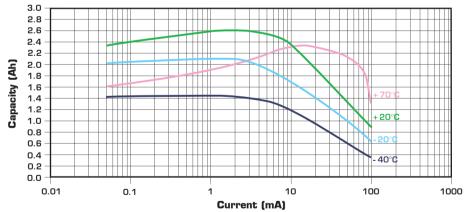
Storage

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

Warning

- Fire, explosion and 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 (use tabbed cell versions instead).

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



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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N $^\circ$ 31048-2.

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