Primary lithium battery LS 14500

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

Cell size references

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

LS
14500
LR ®
3.6V
Li-SOCI2
C-SOCIE
R6 - ,

Saft

R6 - AA

(typical values relative	e to cells stored for one year or less at +30°C max.]
) V cut-off. The capacity restored by the cell varies 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
temperature, and the may be recommende Maximum recommen	may vary according to the pulse characteristics, the e cell's previous history. Fitting the cell with a capacit d in severe conditions. Consult Saft) ded continuous current	
(Higher currents poss -		
Storage	(recommended) (for more severe conditions, consult Saft)	+30°C (+86°F) max
	re range bient T may lead to reduced capacity and s at the beginning of pulses. Consult Saft)	-60°C/+85°C (-76°F/+185°F)
Physical characte		

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	radial tabs		
	2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX)	radial pins axial leads		

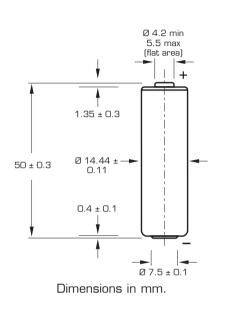
flying leads ... etc.

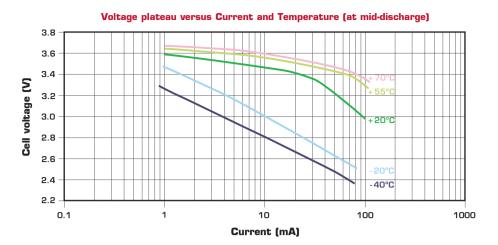
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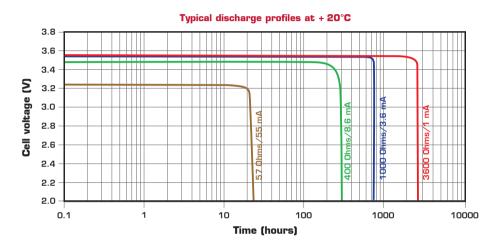


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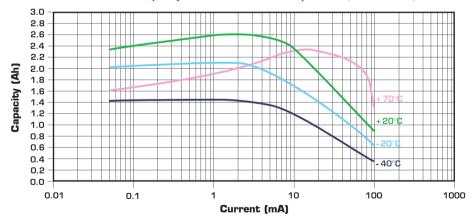
Storage

• 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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