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

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3.6V Li-SOCIZ
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AA

Nominal capacity 2.6 Ah (at 2 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 0.2 mA +20°C)	3.6 V	
Nominal energy		9.36 Wh	
undischarged cells wit 3.0 V. The readings n temperature, and the	l pulses, drained every 2 mn at +20°C from h 10 μA base current, yield voltage readings above nay vary according to the pulse characteristics, th cell's previous history. Fitting the cell with a capaci l in severe conditions. Consult Saft]	е	
Maximum recommend (Higher currents poss	led continuous current ible, consult Saft)	50 mA	
Storage	(recommended) (for more severe conditions, consult Saft)	+30°C (+86°F) max	

(typical values relative to cells stored for one year or less at +30°C max.)

Physical characteristics

FL

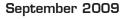
Cell size references

Electrical characteristics

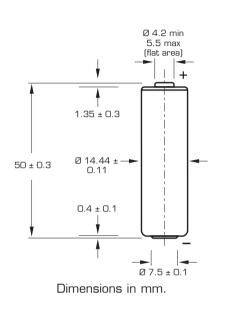
Diameter (max)			14.55 mm (0.57 in)	
Height (max)			50.3 mm (1.98 in)	
Typical weight			16.7 g (~ 0.6 oz)	
Li metal content			approx. 0.7 g	
Available termination suffix				
	CN, CNR	radial tabs		
	2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX)	radial pins axial leads		

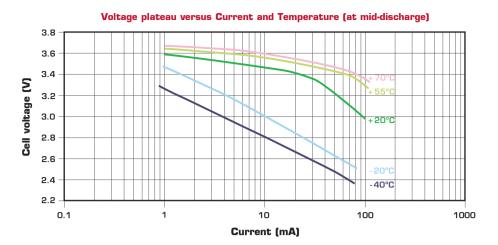
flying leads...etc.

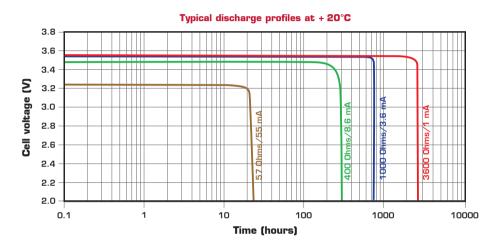
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LS 14500







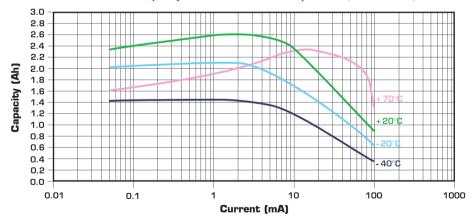
Storage

• 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)



Doc. Nº 31064-2-0909

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