Primary lithium battery LS 17500

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



Benefits

- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60/+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
- Underwriters Laboratories (UL)
 Component Recognition
- Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard (class T3 assignment)
- 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

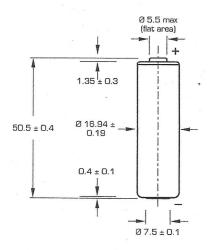
Main applications

- Utility metering
- · Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Identification tags
- Tracking systems
- Automotive electronics
- Professional electronics

Cell size refere	ence		A
Electrical charact	eristics		
(typical values relative	to cells stored for one year or	less at +30°C max	<. }
Nominal capacity (at 3 mA + 20°C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)			3.6 Ah
Open circuit voltage	(at +20°C)		3.67 V
Nominal voltage	(at 0.3 mA + 20°C)	The first of the second of the	3.6 V
Nominal energy	- Control of the Cont		12.96 Wh
base current, yield vo characteristics, the te	In y to 230 MA I pulses, drained every 2 mn a Itage readings above 3.0 V. To emperature, and the cell's prei I in severe conditions. Consult	he readings may va vious history. Fittin	ary according to the pulse
Maximum recommend (Higher currents are p	led continuous current possible. Consult Saft)		100 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 character	ristics		
Diameter (max)	en bestellt der verste der verste der en der der der de verste der der der der der der der der der de		17.13 mm (0.67 in)
Height (max)			50.9 mm (2.00 in)
Typical weight			21.9 g (0.8 oz)
Li metal content			approx. 0.9 g
Available termination s	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 17500



Dimensions in mm.

Storage

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

Warning

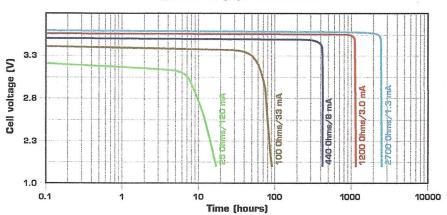
- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).

3.6 3.4 2.3.2 3.0 2.8 2.6 2.4 2.2 2.0 1 100 100 1000

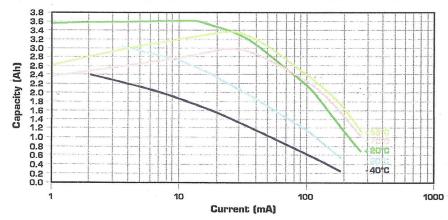
Voltage plateau versus Current and Temperature (at mid-discharge)

Typical discharge profiles at + 20°C

Current (mA)



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



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Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft. For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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