Primary lithium battery LS 17500

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

Benefits

- High and stable operating voltage
- Low self-discharge rate (less than 1 % after 1 year of storage at +20°C)
- Wide operating temperature range (-60/+85℃)
- Easy integration in compact system
- 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 (File Number MH 12609)
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety standard
- Non-restricted for transport

Main applications

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

Cell size reference

Electrical characteristics

(typical values relative	to cells stored for one year or	less at +30°C ma	x.]
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)		3.6 V
drained every 2 mn at current, yield voltage to the pulse character	ally up to 250 mA (250 mA/0 t + 20°C from undischarged cel readings above 3.0 V. The read ristics, the temperature, and th capacitor may be recommende	lls with 10 µA base dings may vary acc ne cell's previous h	cording istory.
Maximum recommended continuous current (Higher currents are possible. Consult Saft)			130 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	ristics		
Diameter (max)			17.0 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	radial tabs radial pins	

axial leads flying leads... etc.

CNA (AX)

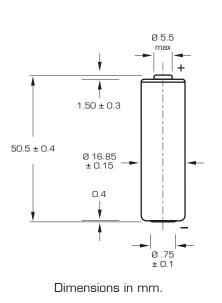
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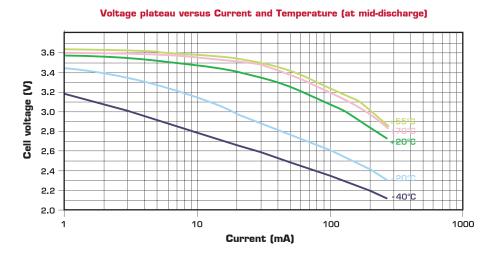


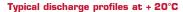


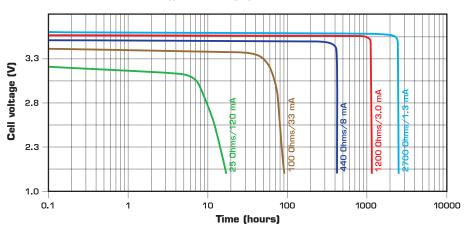
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LS 17500









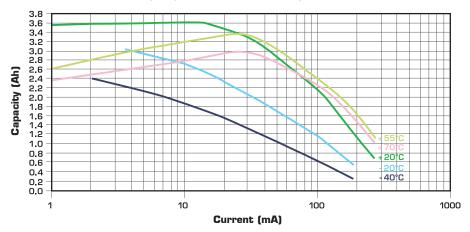
Storage

 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)



Saft

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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2. Published by the Communications Department Photo credit: Saft Société anonyme au capital de 31 944 000 \in

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