

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°C)
- 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 polati	ve to cells stored for one year or less at +30°C i	max l
		-
	O V cut-off. The capacity restored by the cell var t drain, temperature and cut-off)	3.6 Ah vies
Open circuit voltage	(at + 20°C)	3.67 V
Nominal voltage	(at 0.3 mA + 20°C)	3.6 V
drained every 2 mn current, yield voltage to the pulse charact	ically up to 250 mA (250 mA/0.1 second pulse at + 20°C from undischarged cells with 10 μA ba e readings above 3.0 V. The readings may vary a peristics, the temperature, and the cell's previous a capacitor may be recommended in severe cond	ase according 5 history.
	nded continuous current e 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 charact	eristics	
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

Saft

17500

R®

3.6V li-SOCI

A

Available termination suffix

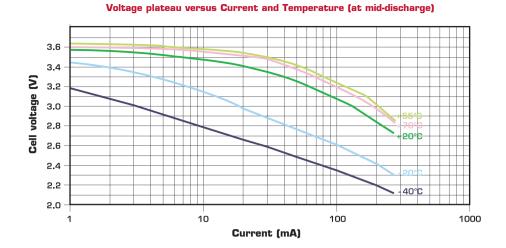




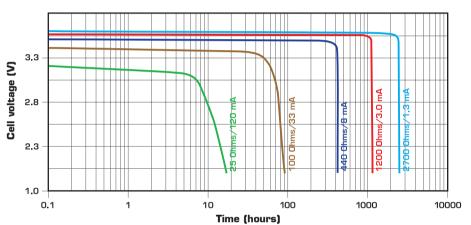


LS 17500

Ø 5.5 max 1.50 ± 0.3 50.5 ± 0.4 0.4 0.4 0.4 0.75 ± 0.1 Dimensions in mm.







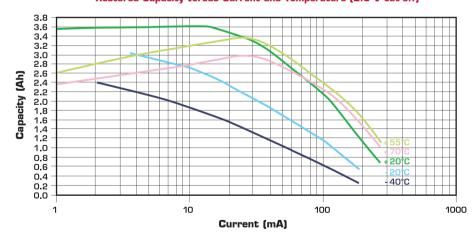
Storage

• 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).

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



Saft

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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. Published by the Communications Department Photo credit: Saft Société anonyme au capital de 31 944 000 € RCS Bobigny B 383 703 873 Produced by Arthur Associates Limited.

