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

Key features

- Stainless steel container and end caps (low magnetic signature)
- 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

<u>Cell size reference</u>

Electrical characteristics

Electrical characteristics				
(typical values relation	ve to cells stored for one year or less at +30°C m	пах.)		
-	O V cut off. The capacity restored by the cell vari t drain, temperature and cut off)	3.6 Ah es		
Open circuit voltage	(at +20°C)	3.67 V		
Nominal voltage	(at 0.3 mA +20°C)	3.6 V		
undischarged cells v 3.0 V. The readings temperature, and th	ically up to 250 mA nd pulses, drained every 2 mn at +20°C from with 10 μA base current, yield voltage readings ab may vary according to the pulse characteristics, ne cell's previous history. Fitting the cell with a cap ed in severe conditions. Consult Saft)	the		
	permitting 50% of the nominal capacity 20°C with 2.0 V cut off. ssible, consult Saft)	130 mA		
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°F) max		
Operating temperature range		- 60°C/+ 85°C		
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)		(-76°F∕+185°F)		
Physical charact	eristics			
		47.0 (0.67.in)		

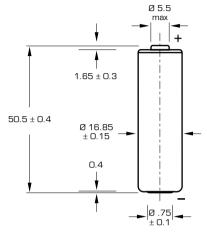
Diameter (max)			17.0 mm (0.67 in)
Height <i>(max)</i>			50.9 mm (2.00 in)
Typical weight			21.9 g (0.8 oz)
Li metal content			approx. 0.9 g
Available termination	Suffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL	radial tabs radial pins axial leads flying leads etc.	



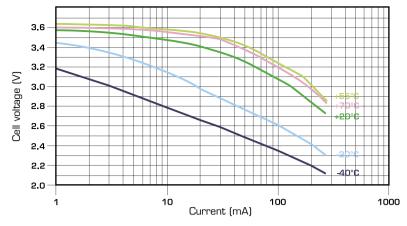


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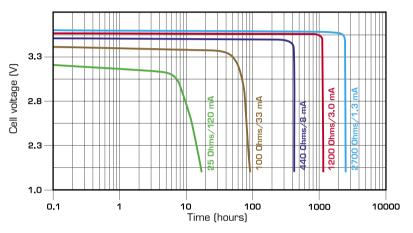
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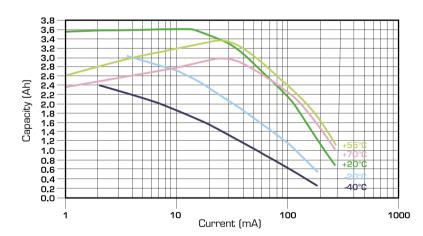
Dimensions in mm.



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



Typical discharge profiles at + 20°C



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

Storage

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

Warning

- Fire, explosion and severe 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).