## **Primary lithium batteries** LS 17500

3.6V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High energy density A-size bobbin cell

FI

etc...

For applications requesting good voltage response and operating life in -60°C/+85°C environments.



### **Key features**

- High and stable operating voltage
- Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- 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

Cell size refer	ence		А
Electrical charac	cteristics		
(typical values relati	ve to cells stored for one year o	r less at +30°C m	ax.)
Nominal capacity (at 4 mA + 20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).			3.4 Ah s
Open circuit voltage	(at + 20°C)		3.67V
Nominal voltage	(at 0.3 mA + 20°C)		3.6V
drained every 2 m current, yield voltag to the pulse charac	ically up to 250 mA (250 mA/C at + 20°C from undischarged c e readings above 3.0V. The read teristics, the temperature, and t a capacitor may be recommende	ells with 10 µA bas dings may vary acc the cell's previous t	se cording history.
Continuous current permitting 50% of the nominal capacity to be achieved at + 20°C with 2.0V cut off. (Higher currents 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℃/+ 85℃ [-76°F/+ 185°F]
Physical charact	teristics		
Diameter <i>(max)</i>			17.0 mm (0.67 in)
Height (max)			50.9 mm (2.00 in)
Typical weight			21.9 g (O.8 oz)
Li metal content			approx. 0.9 g
Available termination	n Suffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX)	radial tabs radial pins axial leads	

flying leads... etc.



# LS 17500

 $1.65 \pm 0.3$ 

Ø 16.85 ± 0.15

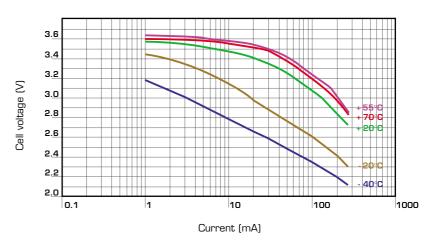
0.4

4

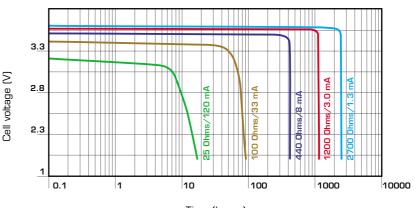
Dimensions in mm.

Ø 5.5 max

Ø .75 ± 0.1



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



Time (hours)

Typical discharge profiles at +20°C

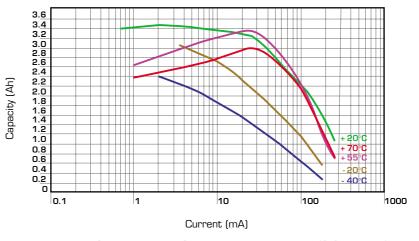


 $50.5 \pm 0.4$ 

 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.





### Saft

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