Primary lithium battery

LS 17500

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) 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

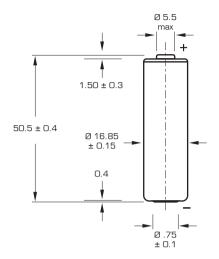
Main applications

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

Cell size refe	rence		A
Electrical charac	cteristics		
(typical values relativ	ve to cells stored for one year or	less at +30°C max	c.]
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 current, yield voltago to the pulse charact	ically up to 250 mA (250 mA/O) at + 20°C from undischarged cel e readings above 3.0 V. The read teristics, the temperature, and that a capacitor may be recommende	lls with 10 µA base dings may vary acco ne cell's previous his	ording story.
	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
Available termination	n suffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF	radial tabs radial pins	



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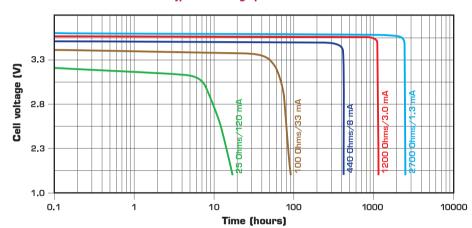
Dimensions in mm.

3.6 3.4 3 3.2 Cell voltage 3.0 2.8 20°C 2.6 2.4 2.2 -40°C 2.0 10 100 1000

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

Typical discharge profiles at + 20°C

Current (mA)



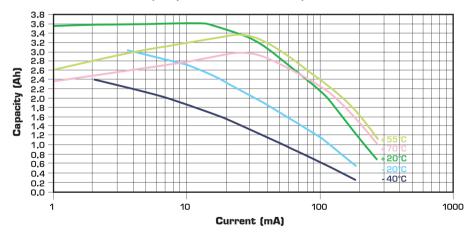
Storage

 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)



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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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