Primary lithium battery

LS 33600

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High energy D-size bobbin cell



Benefits

- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/85°C)
- Easy integration in compact system
- Low self-discharge rate (less than 1 % after 1 year of storage at + 20°C)

Key features

- Stainless steel container
- Hermetic glass-to-metal sealing
- Built-in safety vent
- Finish with or without flat positive end
- Non-flammable electrolyte
- Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard
- Underwriters Laboratories (UL) Component Recognition (File Number MH 12609)
- Restricted for transport (Class 9)

Main applications

- Utility metering
- Automatic meter readers
- Buoys
- Measuring equipment
- Industrial applications
- Professional electronics
- Marine equipment

Optional upon request

Low magnetic version

Cell size refere	nces	D		
Electrical characteristics				
(typical values relative	to cells stored for one year or less at + 30°C max.)			
Nominal capacity (at 5 mA + 20°C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)		17.0 Ah		
Open circuit voltage	(at + 20°C)	3.67 V		
Nominal voltage	(at 0.7 mA + 20°C)	3.6 V		
Nominal energy		61.2 Wh		

Pulse capability: Typically up to 400 mA

(400 mA/0.1 second pulses, drained every 2 mn at + 20°C from undischarged cells with 10 μ A base current, yield voltage readings above 3.0 V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult Saft)

Maximum recommended continuous current (to maintain cell heating within safe limits. Battery packs may imply lower level of maximum current and may request specific thermal protection. Consult Saft1

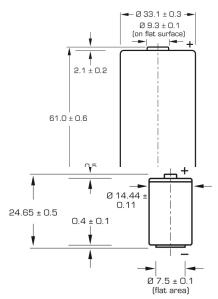
Storage	(recommended)	+ 30°C (+ 86°F) max
	(for more severe conditions, consult Saft)	
Operating temperature range		- 60°C/+ 85°C
(Operation above ambient T may lead to reduced capacity and		(- 76°F/+ 185°F)
lower voltage re		

Physical chara	cteristics		
Diameter (max)			33.4 mm (1.32 in)
Height (max)			60.2 or 61.6 mm (2.37 in or 2.42 in) depending on finish type
Typical weight			90 g (3.2 oz)
Li metal content			approx. 4.5 g
Available terminat	ion suffix CN, CNR CNA (AX) FL	radial tabs axial leads flying leads <i>etc</i> .	



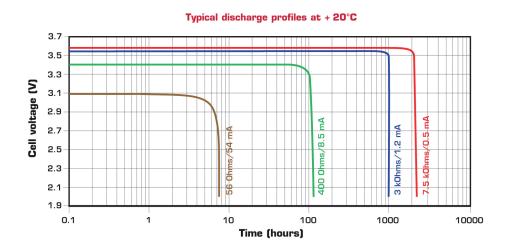
250 mA

LS 33600



Dimensions in mm.

Voltage plateau versus Current and Temperature (at mid-discharge) 3.6 3.5 3.4 voltage (V) 3.3 3.2 3.1 3.0 <u>ا</u> 2.9 2.8 2.7 2.6 40°C 2.5 100 100 0.1 10 Gurrent (mA)



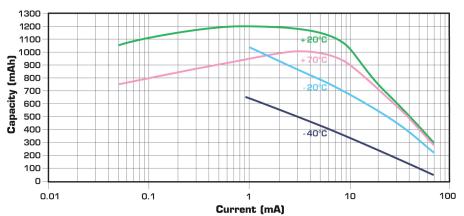
Storage

• 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)



Kontakt:

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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 Nº 31048-2. Published by the Communications Department.

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