Primary lithium battery

LS 33600C

3.6 V Primary lithium-thionyl chloride (Li-SOCI₂)
High energy
D-size bobbin cell
(recommended for cool temperature environments)



Benefits

- High voltage response, stable during most of the lifetime of the application
- Superior voltage response during pulsing at ambient T
- Easy integration in compact system
- Low self-discharge rate
 (less than 3% 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 86-4 safety standard and EN 50020 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

Optional upon request

Low magnetic version

Cell size reference	es es	UM3 - R20 - D		
Electrical characteristics				
(typical values relative to c	ells stored for one year or less at + 30°C max.,	1		
Nominal capacity		18.5 Ah		
	ut off. The capacity restored by the cell varies n, temperature and cut of f)			
Open circuit voltage (a	t +20°C)	3.67 V		
Nominal voltage (a	t 0.7 mA + 20°C)	3.6 V		
undischarged cells with 10 3.0 V. The readings may v temperature, and the cell	up to 250 mA. ses, drained every 2 mn at + 20°C from O µA base current, yield voltage readings above vary according to the pulse characteristics, the 's previous history. Fitting the cell with a capacit severe conditions. Consult Saft)	or		
to be achieved at + 20°C (to maintain cell heating wi	ting 50% of the nominal capacity with 2.0 V cut of f. thin safe limits. Batter y packs may imply lower and may request specific thermal protection.	80 mA		

Physical characteristics

Operating temperature range

(recommended)

(Operation above ambient T may lead to reduced capacity and

lower voltage plateau readings at the beginning of pulses. Consult Saft)

Consult Saft1

Storage

Diameter (max)			33.4 mm (1.32 in)
Height (max)			60.2 or 61.6 mm (2.37 or 2.42 in) depending on finish type
Typical weight			90 g (3.2 oz)
Li metal content			approx. 4.9 g
Available terminat	ion suffix CN, CNR CNA (AX) FL	radial tabs axial leads flying leads etc.	

(for more severe conditions, consult Saft)

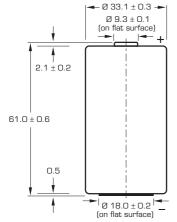


+ 30°C (+86°F) max

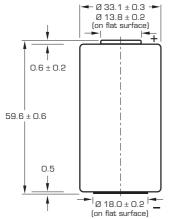
-60°C/+70°C

(-76°F/+158°F)

LS 33600C



Finished version with protruding positive end cap



Finished version with flat positive end cap

Dimensions in mm.

Storage

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

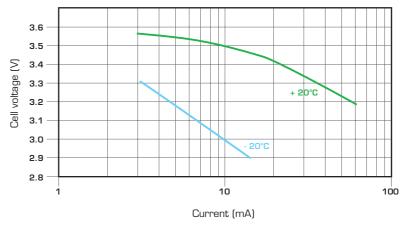
Warning

- 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).

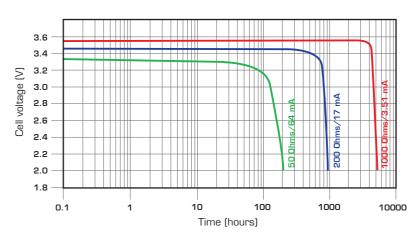
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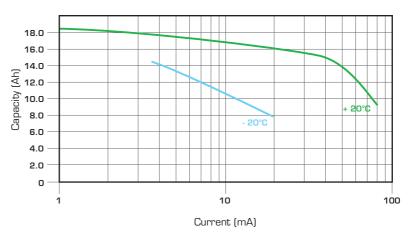
www.saftbatteries.com



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)

Doc. Nº 31017-2-1106

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.

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