Primary lithium battery

LS 33600C

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂)
High energy
D-size bobbin cell
(recommended for cool temperature environments)

Physical characteristics

Diameter (max)

Height (max)

Typical weight

Li metal content

Available termination suffix

CN, CNR

CNA (AX)

FL



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 refere	nces	UM3 - R20 - D
Electrical characteristics		
(typical values relative	to cells stored for one year or less at +30°C max.	J
Nominal capacity		18.5 Ah
	V cut off. The capacity restored by the cell varies drain, temperature and cut off)	
Open circuit voltage	(at +20°C)	3.67 V
Nominal voltage	(at 0.7 mA +20°C)	3.6 V
undischarged cells wit 3.0 V. The readings m temperature, and the	I pulses, drained every 2 mn at +20°C from th 10 μA base current, yield voltage readings above nay vary according to the pulse characteristics, the cell's previous history. Fitting the cell with a capacith in severe conditions. Consult Saft)	
to be achieved at + 20 (to maintain cell heating	ermitting 50% of the nominal capacity 0°C with 2.0 V cut off. In gwithin safe limits. Battery packs may imply lower ent and may request specific thermal protection.	80 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 plateau readings at the beginning of pulses. Consult Saft)		- 60°C/+ 70°C (-76°F/+ 158°F)

radial tabs

axial leads

flying leads ... etc.



33.4 mm (1.32 in)

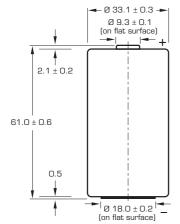
60.2 or 61.6 mm

(2.37 or 2.42 in) depending on finish type

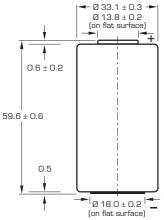
90 g (3.2 oz)

approx. 4.9 g

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.

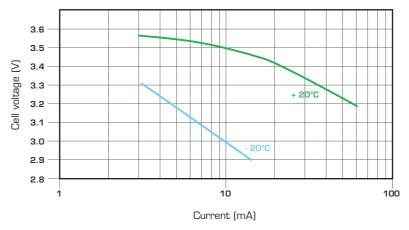
Warning

- 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).

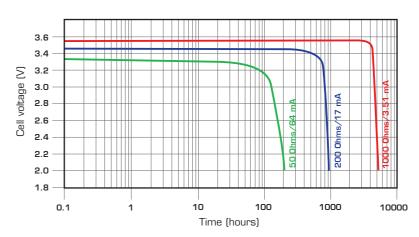
Saft Specialty Battery Group

12, rue Sadi Carnot 93170 Bagnolet - France Tel +33 (0)1 49 93 19 18 Fax +33 (0)1 49 93 19 69

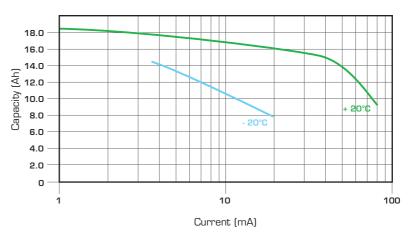




Voltage plateau versus Current and Temperature (at mid-discharge)



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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