# LS 33600

## Primary Li-SOCl<sub>2</sub> cell

### High energy density 3.6 V D-size bobbin cell

Saft's LS 33600 cell is ideally suited for long-term applications (typically from 5 to 20+ years), featuring low base currents and periodic pulses.

#### **Benefits**

- High capacity and high energy (1185 Wh/l and 680 Wh/kg)
- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/+85°C)
- Low self-discharge rate, compatible with long operating life (less than 1% per year of storage, at + 20°C, after 1 year)
- Superior resistance to corrosion
- Low magnetic signature

#### Key features

- Bobbin construction
- Well controlled passivation
- Hermetic construction with glass-tometal seal
- Stainless steel container
- Non-flammable electrolyte
- RoHS and REACH compliance
- Made in France

## Designed to meet all major quality, safety and environment standards

- Safety: UL 1642, IEC 60086-4
- ATEX: IEC 60079-11 part 10.5 T4 rating at 40°C (Consult Saft)
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001, Saft World Class continuous program

#### Typical applications

- Utility Metering
- Internet of Things
- Alarms and security
- Medical devices
- Tracking systems
- Professional electronics



Electrical characteristics	
[Typical values relative to cells stored up to one year at + 30°C max]	
Nominal capacity (at 5 mA, + 20°C, 2.0 V cut-off) [1]	17 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 capacity (2)	up to 400 mA
Maximum recommended continuous current	250 mA

Operating conditions		
Operating temperature range (3)	- 60°C	/ + 85°C (- 76°F / + 185°F)
Storage temperatures	Recommended (4)	+ 30°C (+ 86°F) max

Physical characteristics	
Diameter (max)	33.3 mm (1.31 in)
Height (max)	61.3 mm (2.41 in)
Typical weight	90 g (3.2 oz)
Li metal content	approx. 4.5 g

#### Termination

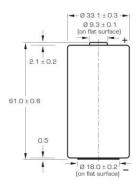
Available termination suffix

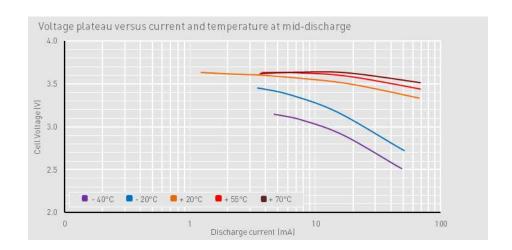
CN, CNR	radial tabs
2 PF, 3 PF, 3 PF RP, 4 PF	radial pins
CNA	axial leads
FL	flying leads
Other configurations upon	request

- [1] Dependent upon current drain, temperature, cut-off and cell orientation.
- Under 400 mA / 0.1 second pulses, drained every 2 minutes at  $+ 20^{\circ}$ C from undischarged cells during 24h, with 10  $\mu$ A base current, yield voltage readings above 3.0V after initial stabilisation. 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 or for high pulse currents. Consult Saft.
- Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult
- [4] For more severe conditions, consult Saft.



#### LS 33600 dimensions



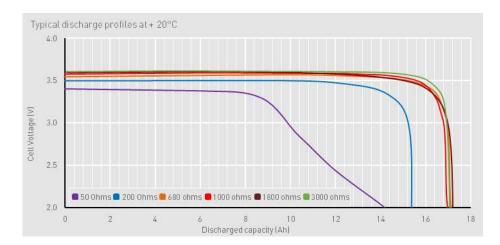


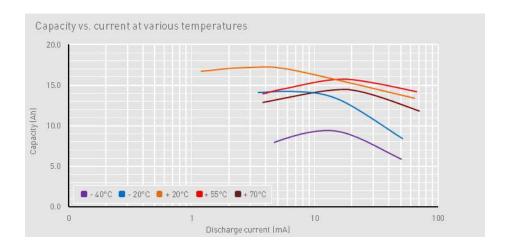
#### Storage

■ 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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