

LS 33600 C

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



For applications with continuous currents up to 80 mA, possibly combined with pulsing and exposure to extreme temperatures not repeatedly exceeding +40°C.

Key features

- High and stable operating voltage
- High minimum voltage during pulsing
- Up to 12% more capacity than the high drain version
- Low self discharge rate (less than 1% after 1 year of storage at +20°C)
- 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
- Underwriters Laboratories (UL) Component Recognition (File Number MH 12609)
- Non restricted for transport

Main applications

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

Optional upon request

- Low magnetism version

Cell size reference

R20 - D

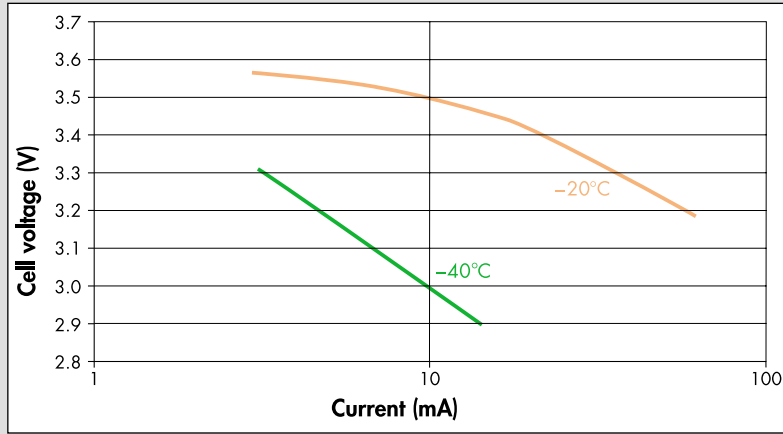
Electrical characteristics

(typical values for cells stored for one year or less)

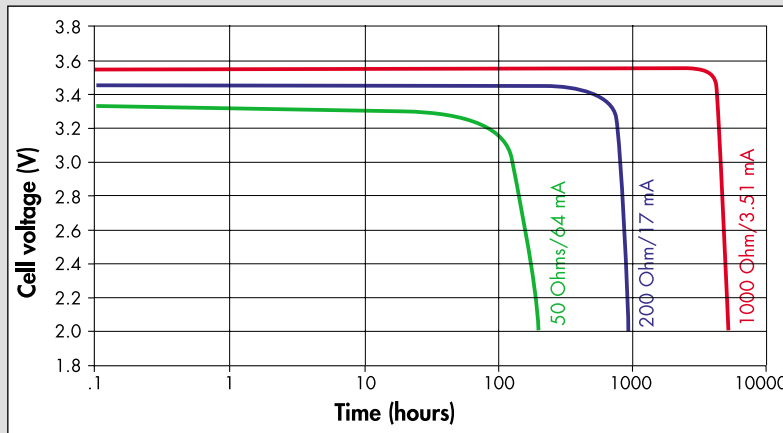
Nominal capacity	18.5 Ah
<i>(at 1 mA +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).</i>	
Open circuit voltage (at +20°C)	3.67 V
Nominal voltage (at 0.7 mA +20°C)	3.6 V
Maximum recommended continuous current	80 mA
<i>(to get 50% of the nominal capacity at +20°C with 2 V cut off. Higher currents possible, consult Saft).</i>	
Pulse capability : varies according to pulse characteristics (frequency, duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage. Consult Saft.	
Storage (recommended) (possible without leakage)	+30°C max -60/+100°C
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage plateau readings at the beginning of pulses).	-60/+40°C
Physical characteristics	
Diameter (max)	33.4 mm (1.32")
Height (max)	60.2 or 61.6mm (2.37 or 2.42") depending on finish type
Typical weight	90 g
Available termination suffix	CN, CNR, (STS) CNA (AX) FL radial tabs axial leads flying leads ... etc.



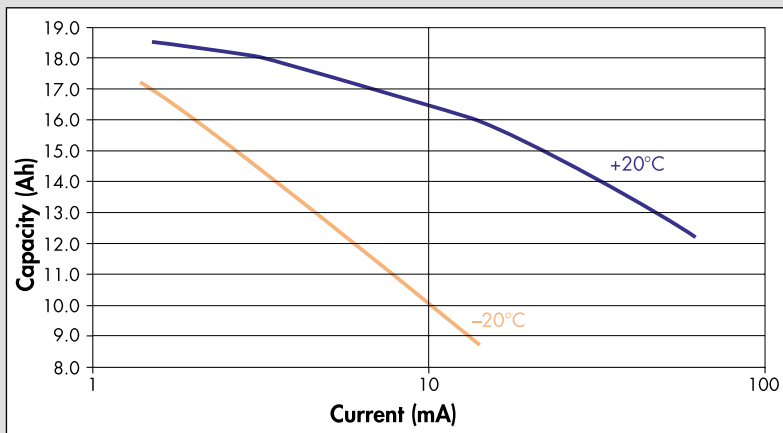
Voltage plateau versus Current and Temperature (at mid-discharge)



Discharge profiles at +20°C

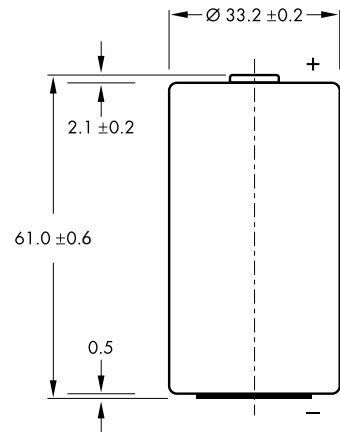


Capacity versus Current and Temperature (2.0 V cut off)

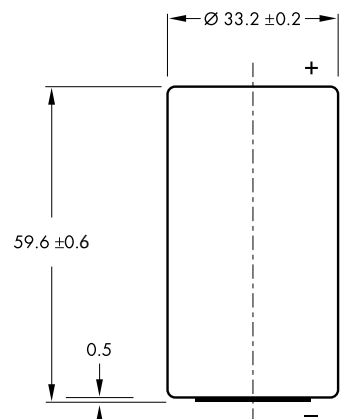


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dimensions in mm



Finished version with protruding positive end cap



Finished version with flat positive end cap



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