LS 14250 E

Primary Li-SOCl$_2$ cell

High power density 3.6 1/2 AA-size bobbin cell

Saft's LS 14250 E cell is ideally suited for long-term applications (typically from 5 to 20+ years), featuring low base currents and periodic pulses.

Benefits

- High power / high energy
- 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 3% per year of storage, at + 20°C, after 1 year)

Key features

- Bobbin construction
- Well controlled passivation
- Hermetic construction with glass-to-metal seal
- Non-flammable electrolyte
- RoHS and REACH compliance
- Made in China

Designed to meet all major quality, safety and environment standards

- Safety: UL 1642, IEC 60086-4
- ATEX: IEC 60079-11 (EDITION 6), Part 10.5 (T4 rating at 60°C)
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001
- CE: P/N: C10-0041

Typical applications

- Utility Metering
- Internet of Things
- Tracking systems
- Alarms and security
- Connected sensors
- Medical devices

Electrical characteristics[1]	
Nominal capacity (under 1 mA, +20°C, 2.0 V cut-off)[3]	1.2 Ah
Open circuit voltage (at +20°C)	3.67 V
Nominal voltage (at 0.1mA, + 20°C)	3.6 V
Nominal energy	4.32 Wh
Pulse capability[4]	Up to 100 mA
Maximum recommended continuous current	20 mA
For battery sizing, consult Saft	

Operating conditions	
Operating temperature range[5]	-60°C / +85°C (-76°F / +185°F)
Storage temperatures (max recommended)[6]	+30°C (+86°F)

Physical characteristics[2]	
Diameter (max)	14.5 mm (0.57 in)
Height (max)	25.15 mm (0.99 in)
Typical weight	9 g (0.32 oz)
Li metal content	approx. 0.3 g

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]Typical values relative to cells stored up to one year at + 30°C max.
[2]Sleeved cell.
[3]Dependent upon current drain, temperature, cut-off and cell orientation.
[4]Under 100 mA / 0.1 second pulses, drained every 2 minutes at + 20°C from undischarged cells during 24 h, with 10 µA base current, yield voltage readings above 3.0 V 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.
[5]Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.
[6]For more severe conditions, consult Saft.

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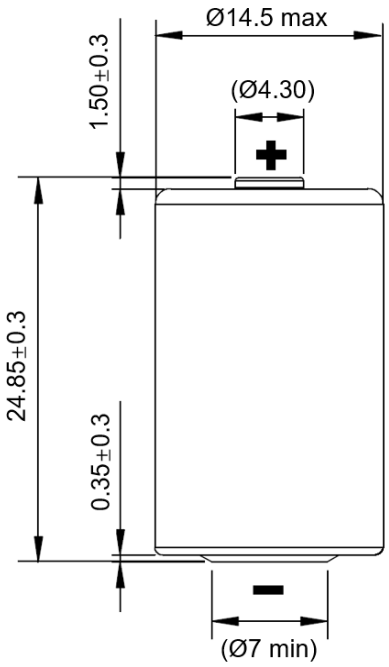
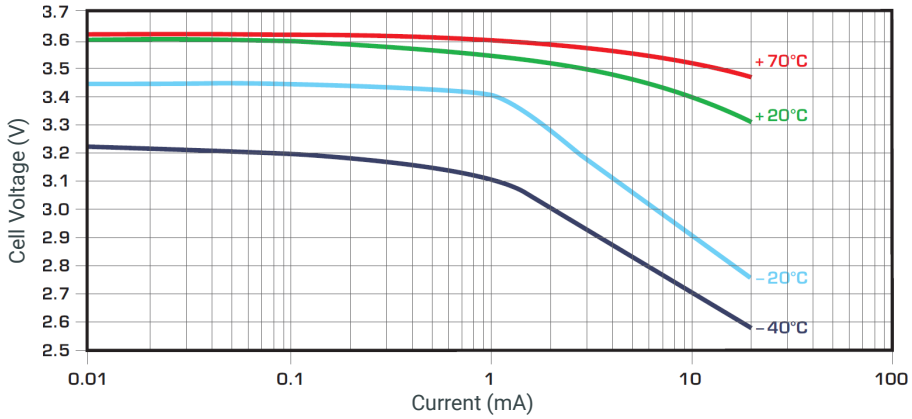
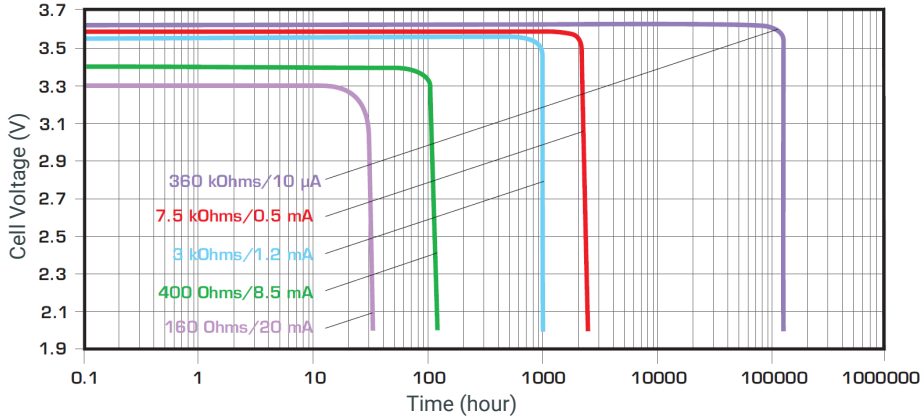


Dimensions in mm

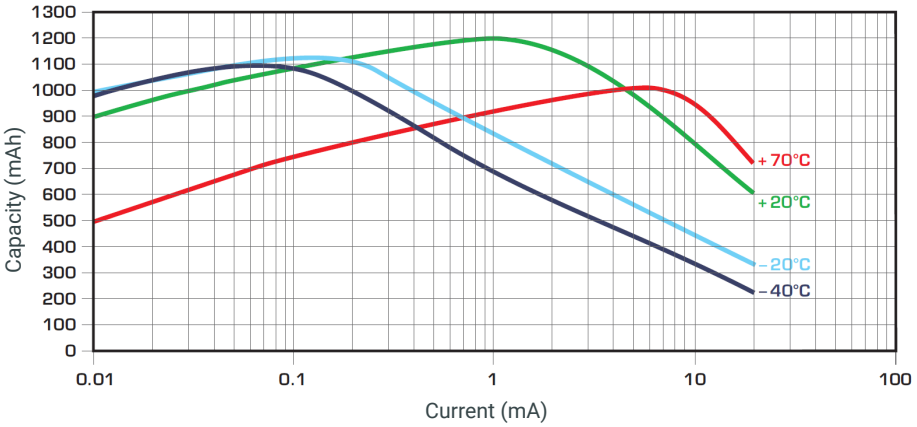
LS 14250 E Typical voltage vs current at mid-discharge



LS 14250 E Typical discharge characteristics at +20°C



LS 14250 E Typical capacity versus current and temperature



Storage

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

Warning

- Fire, explosion and severe 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).
- Do not remove the cells from their original packing before use.
- Do not store the cells in bulk to avoid accidental short circuiting.
- Do not mix new and used cells or cells from different origins.
- Mind the polarities of the cell.

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Saft, a subsidiary of TotalEnergies
S.A.S. au capital de 26 724 876 €
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Document N° 700023-EN-2410
Edition: Oct 2024