# **Primary lithium batteries** LS 14250 LST 14250

3.6V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High energy density 1/2 AA-size bobbin cells

For applications requesting good voltage response and operating life in - 60°C/+ 85°C environments.



### **Key features**

- High and stable operating voltage
- Low self-discharge rate (less than 1% after 1 year of storage at + 20°C)
- Stainless steel container and end caps (low magnetic signature) for LS 14250
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety standard
- Underwriters Laboratories (UL) Component Recognition
  - LS 14250 File Number MH 12609
  - LST 14250 File Number MH 12802
- Non-restricted for transport

### **Main applications**

- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- Memory back-up
- Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics

1/2 UM3 - 1/2 R6 - 1/2 AA

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**Cell size references** 

Physical characte	eristics	LS 14250	LST 14250
	nbient T may lead	to reduced capacity and g of pulses. Consult Saft)	-80 C/+83 C (-76°F/+185°F)
Storage	•	d) ere conditions, consult Saft)	+ 30°C (+ 86°F) max - 60°C/+ 85°C
Continuous current permitting 50% of the nominal capacity to be achieved at + 20°C with 2.0V cut off. <i>(Higher currents possible, consult Saft)</i>		40 mA	
drained every 2 mn current, yield voltag to the pulse charac	at +20°C from u e readings above 3 teristics, the temp	nA (100 mA/0.1 second pulses ndischarged cells with 10 µA bas 3.0 V. The readings may vary acc erature, and the cell's previous h e recommended in severe condit	se cording history.
Nominal voltage	(at 0.1 mA + 2	20°C)	3.6V
Open circuit voltage	(at + 20°C)		3.67V
Nominal capacity (at 1.5 mA + 20°C according to curren		e capacity restored by the cell vai ire and cut off).	1.10 Ah <i>ries</i>
		for one year or less at + 30°C m	ax. J

	23 14230	201 14200
Diameter <i>(max)</i>	14.65 mm (0.58 in)	14.4 mm (0.57 in)
Height <i>(max)</i>	24.8 mm (0.98 in)	25.1 mm (0.99 in)
Typical weight	8.9 g (0.3 oz)	9.4 g (0.3 oz)
Li metal content	approx. 0.3 g	approx. 0.3 g

Available termination suffix

etc...

CN, CNR radial tabs 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL

radial pins axial leads flying leads ... etc.





# TRANSPORTATION CERTIFICATE

Against the Transportation Certificates for the Saft battery types, Part No LST 14250 (X) and T04/8AA (X) where (X) is a standard termination, the following battery Part Nos are certified to have satisfied the requirements of :

UN Recommendations on the Transport of Dangerous Goods, Model Regulations – ST/SG/AC.10/1 Rev 12  $\,$ 

UN Recommendations for the Transport of Dangerous Goods, Manual of Tests and Criteria – ST/SG/AC.10/11 Rev 3, Addendum 2, Annex 4, Amendments as detailed in – ST/SG/AC.10/27 Add.2.

# **BATTERY PART Nos**

LST14250.STD, LST14250.CNR, LST14250.CNR OP, LST14250.2PF, LST14250.3PF, LST14250.3PF RP, LST14250.CNA, T04/8AA1, T04/8AA2, T04/8AA6, T04/8AA8, T04/8AA9, T04/8AA10, T04/8AA11, T3.7-170, T3.7-178, XST 5423, XST 5597, XST 5642, XST 5695, XST 5960, XST 6316

# **BATTERY DESCRIPTION**

Primary, Non-rechargeable, Lithium-Thionyl Chloride single cell battery.

Nominal Battery Voltage	3.6 volts
Nominal Battery Capacity	1.0 Ah
Lithium content per battery	0.329g

# **BATTERY CLASSIFICATION**

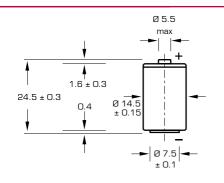
Exempt from the Dangerous Goods regulations providing packed in accordance with clause 188 section (e) of UN model regulations ST/SG/AC.10/1 Rev 12

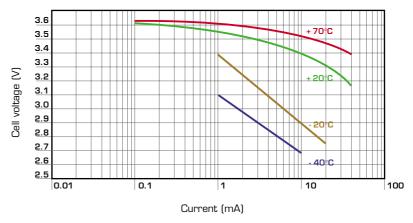
Signed on Behalf of Saft Ltd

Ene

D. Eyre, Technical Director. Dated 02/01/03 Saft Ltd, River Drive, South Shields, Tyne and Wear,UK, NE33 2TR

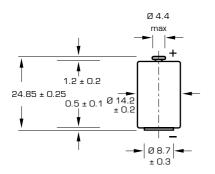






LS 14250 Voltage plateau versus Current and Temperature (at mid-discharge)

# LST 14250



Dimensions in mm.

### Storage

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

#### Warning

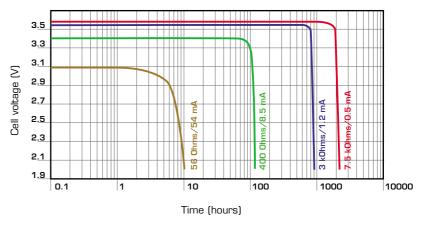
- Fire, explosion and severe burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell.

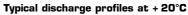
## Saft

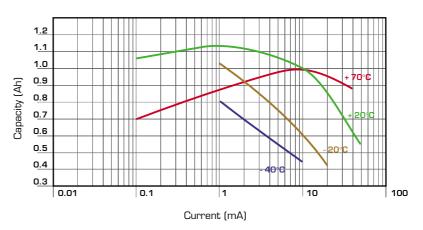
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