

# "De officiele Saft dealer in Nederland"

# Primary lithium battery

LS 14250

3.6 V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High energy density

1/2 AA-size bobbin cell



#### **Benefits**

- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60 °C/ +85 °C)
- Low self-discharge rate (less than 1 % per year of storage at +20 ℃)
- Easy integration into compact systems
- Superior resistance to atmospheric corrosion

## **Key features**

- Stainless steel container and end caps (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 60086-4 safety standard and IEC 6007 9 -11 intrinsic safety standard (class T4 assignment)
- Underwriters Laboratories (UL)
  Component Recognition
- Non-restricted for transport/ Non-assigned to Class 9 according to the UN Recommendations on the transport of dangerous goods
   Model Regulations
- Manufactured in France, UK, China

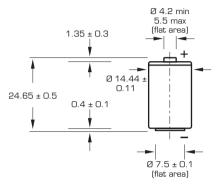
## Main applications

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

Cell size reference	es		½ R6 −½ AA
Electrical characterist	ics		
(typical values relative	to cells stored for one year or less a	+30 °C max.)	
Nominal capacity (at 1 mA $+$ 20 $^{\circ}$ C 2. 0 $^{\circ}$ V cu $$ t-off. The capacity restored by the cell varies according to current drain, temperature and cu $$ t-off)			1.20 Ah
Open circuit voltage	(at +20 °C)		3.67 V
Nominal voltage	(at 0.1 mA + 20 °C)		3.6 V
Nominal energy			4.32 Wh
undischarged cells witl 3. 0 V. The readings m temperature, and the c	Ily up to 100 mA Ilses, drained every 2 mn at n 1 0 μA base current, yield volt ay vary according to the pulse cha ell's previous history. Fitting the ce in severe conditions. Consult Sa	racteristics, the	
Maximum recommend (Higher currents are po			35 mA
Storage	(recommended) (for more severe conditions, co	onsult Saft)	+30 °C ( +86 °F) max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)			-60 °C/ +85 °C (-76 °F/ +185 °F)
Physical characteristi	cs		
Diameter (max)			14.55 mm (0.57 in)
Height (max)			25.15 mm (0.99 in)
Typical weight			8.9 g (0.3 oz)
Li metal content			approx. 0.3 g
Available termination s	uffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF	radial tabs radial pins	



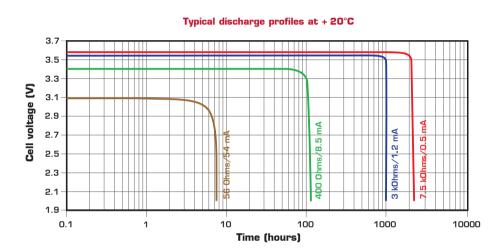
## LS 14250



Dimensions in mm.

#### 3.7 3.6 3.5 30°C 3.4 voltage (V) 3.3 3.2 3.1 3.0 2.9 28 40% 2.7 2.6 2.5 0.01 0.1 10 100 Current (mA)

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



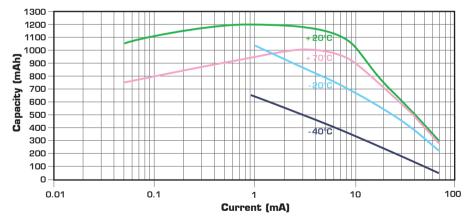
## **S**torage

 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).

## Restored Capacity versus Current and Temperature (2.0 V cut-off)



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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 N° 31048-2.

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