# Primary lithium battery

# LS 14250

3.6 V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High energy density ½ 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°C)
- 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 60079-11 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

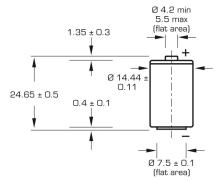
- Utility metering
- Automatic meter reading
- · Alarms and security devices
- Tollgate systems
- Memory back-up
- Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics

Cell size references		½ <b>R6</b> – ½ <b>AA</b>	
Electrical characte	ristics		
(typical values relative	to cells stored for one year or l	ess at +30°C max.)	
	V cut-off. The capacity restored drain, temperature and cut-off)	by the cell varies	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 wit 3.0 V. The readings r temperature, and the	ally up to 100 mA  I pulses, drained every 2 mn at  th 10 µA base current, yield volt  may vary according to the pulse  cell's previous history. Fitting th  I in severe conditions. Consult S	age readings above characteristics, the e cell with a capacitor	
Maximum recommend (Higher currents are p	led continuous current possible, consult Saft)		35 mA
Storage	(recommended) (for more severe conditions, c	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 character	istics		
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	suffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX)	radial tabs radial pins axial leads	



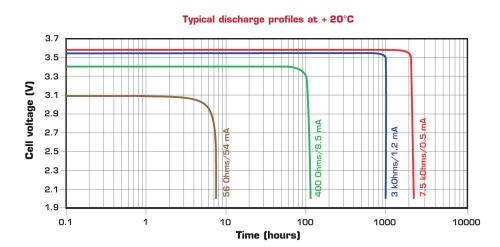
flying leads...etc.

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Dimensions in mm.

#### Voltage plateau versus Current and Temperature (at mid-discharge) 3.7 3.6 3.5 3.4 Cell voltage (V) 3.3 3.2 3.1 3.0 2.9 2.8 2.7 2.6 2.5 0.01 0.1 10 100 Current (mA)



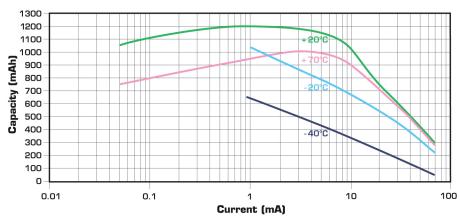
#### **Storage**

 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).

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



#### Kontakt:

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