# Primary lithium battery

# LS 14500

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



#### **Benefits**

- Enhanced capacity
- 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 % after 1 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 T3 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

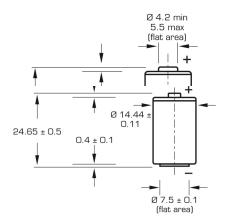
### Main applications

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

Cell size refe	rences		R6 - AA
Electrical chara	cteristics		
(typical values relat	ive to cells stored for one year or	less at +30°C max.	J
•	.O V cut-off. The capacity restored at train, temperature and cut-off)	d by the cell varies	2.6 Ah
Open circuit voltage	e (at +20°C)		3.67 V
Nominal voltage	(at 0.2 mA +20°C)		3.6 V
Nominal energy			9.36 Wh
(250 mA/0.1 sector undischarged cells 3.0 V. The reading temperature, and t	oically up to 250 mA and pulses, drained every 2 mn at with 10 µA base current, yield vol s may vary according to the pulse he cell's previous history. Fitting th ded in severe conditions. Consult t	tage readings above characteristics, the ne cell with a capacit	?
	ended continuous current ossible, consult Saft)		50 mA
Storage	(recommended) (for more severe conditions,	consult 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 charac	teristics		
Diameter (max)			14.55 mm (0.57 in)
Height (max)			50.3 mm (1.98 in)
Typical weight			16.7 g (~ 0.6 oz)
Li metal content			approx. 0.7 g
Available terminatio	n suffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL	radial tabs radial pins axial leads flying leads <i>etc</i> .	

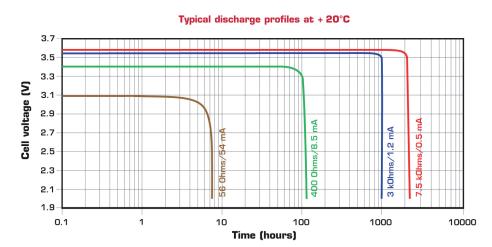


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Dimensions in mm.

#### Voltage plateau versus Current and Temperature (at mid-discharge) 3.8 3.6 3.4 Cell voltage (V) 3.2 3.0 2.8 2.6 20°0 2.4 -40°C 2.2 0.1 100 10 100 Current (MA)



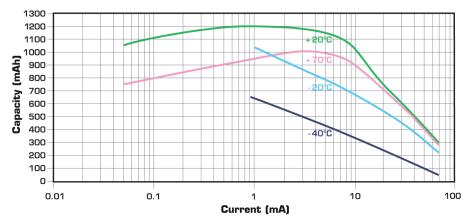
#### **Storage**

• 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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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 Nº 31048-2. Published by the Communications Department.

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