## Meter lithium battery LS 14250 MLB

3.6 V high energy primary Li-SOCl<sub>2</sub> battery for utility meters in demanding environments



### **Benefits**

- Easy integration into utility meters
- High voltage, stable during most of the application's lifetime
- Wide operating temperature range
- Low self-discharge rate (less than 1% per year of storage at +20°C)

### **Key features**

- 1/2 AA lithium-thionyl chloride LS 14250 component cell
- Battery with ABS plastic enclosure
- Component cell with:
  - Stainless steel container
  - Hermetic glass-to-metal sealing
  - Non-flammable electrolyte
  - Underwriters Laboratories (UL)
    Component Recognition
- Battery non-restricted for transport

### Main applications

- Utility metering
- Automatic meter reading
- · Alarms and security devices
- Memory back-up
- Professional electronics

#### Electrical characteristics

(typical values relative to batteries stored for one year or less at +30°C max.)

Nominal capacity 1.10 Ah

(at 1 mA +  $20^{\circ}$ C 2.0 V cut off. The capacity restored by the battery varies according to current drain, temperature and cut off)

Open circuit voltage	(at + 20°C)	3.67 V
Nominal voltage	(at 0.1 mA + 20°C)	3.6 V

Pulse capability: Typically up to 100 mA

Continuous current permitting 50% of the nominal capacity

(100 mA/0.1 second pulses, drained every 2 mn at + 20°C from undischarged battery with 10  $\mu$ A base current, yield voltage readings above 3.0 V. The readings may vary according to the pulse characteristics, the temperature, and the battery previous history.)

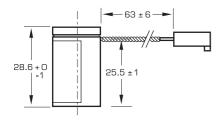
to be achieved at + 20°C with 2.0 V cut off. (Higher currents are possible, consult Saft)		40 mA
Storage	(recommended)	+30°C (+86°F) max
	(for more severe conditions, consult Saft)	
Operating temperature range		-60°C/+85°C
(Operation above ambient T may lead to reduced capacity and		(-76°F/+185°F)

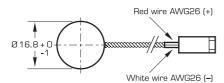
#### Physical characteristics

Diameter (max)	16.8 mm (0.66 in)
Height <i>(max)</i>	28.6 mm (1.12 in)
Typical weight	15 g (0.5 oz)
Li metal content	approx. 0.3 g



# LS 14250 MLB battery





Dimensions in mm.

### **Storage**

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

### Warning

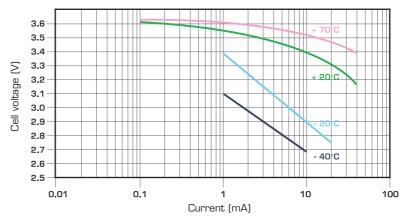
- · Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.

### Saft Specialty Battery Group

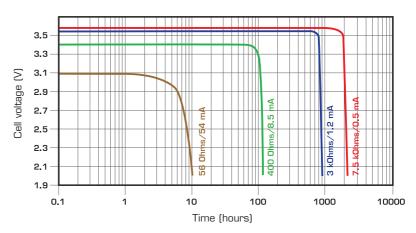
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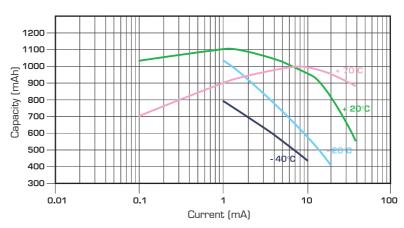
### www.saftbatteries.com



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



Typical discharge profiles at + 20°C



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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