

# 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.)*

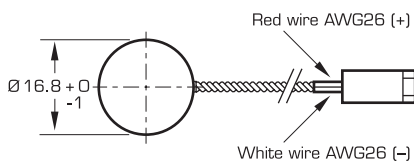
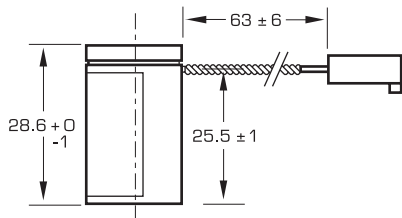
Nominal capacity		1.10 Ah
<i>(at 1 mA + 20°C 2.0 V cut off. The capacity restored by the battery varies according to current drain, temperature and cut off)</i>		
Open circuit voltage	(at +20°C)	3.67 V
Nominal voltage	(at 0.1 mA + 20°C)	3.6 V
Pulse capability: Typically up to 100 mA <i>(100 mA/0.1 second pulses, drained every 2 mn at +20°C from undischarged battery with 10 µA 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.)</i>		
Continuous current permitting 50% of the nominal capacity to be achieved at +20°C with 2.0 V cut off.		40 mA
<i>(Higher currents are possible, consult Saft)</i>		
Storage	<i>(recommended)</i> <i>(for more severe conditions, consult Saft)</i>	+30°C (+86°F) max
Operating temperature range		-60°C/+85°C <i>(-76°F/+185°F)</i>
<i>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)</i>		

### Physical characteristics

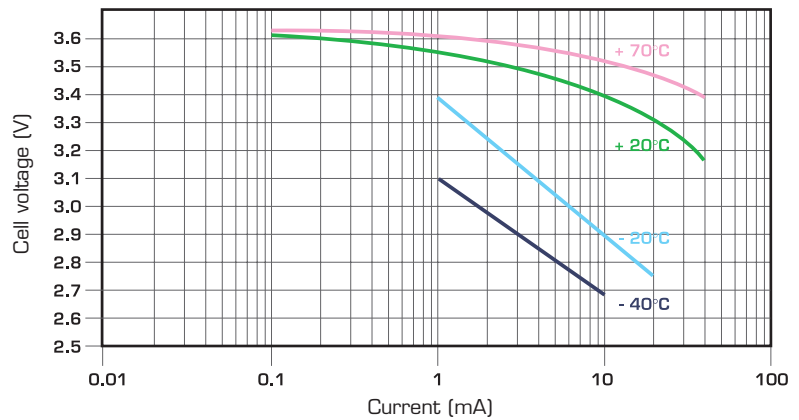
Diameter (max)		16.8 mm (0.66 in)
Height (max)		28.6 mm (1.12 in)
Typical weight		15 g (0.5 oz)
Li metal content		approx. 0.3 g



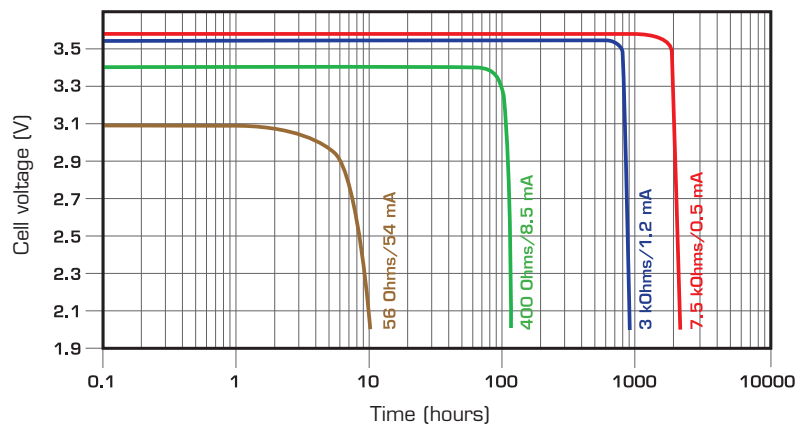
# LS 14250 MLB battery



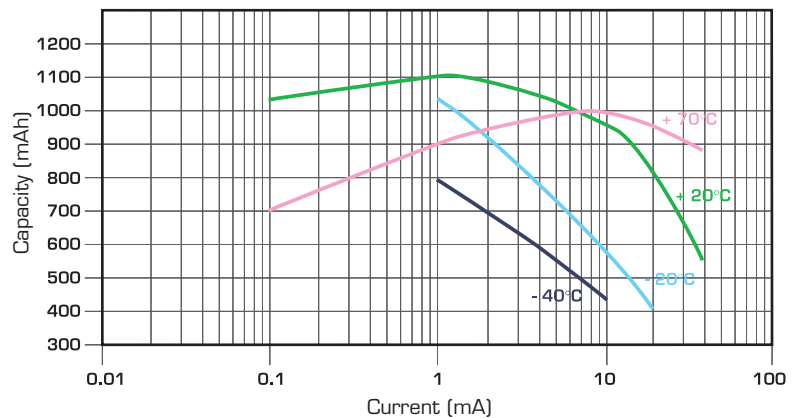
Dimensions in mm.



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)

## 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

12, rue Sadi Carnot  
93170 Bagnolet - France  
Tel +33 (0)1 49 93 19 18  
Fax +33 (0)1 49 93 19 69

313, Crescent Street  
Valdese NC 28690 - USA  
Tel +1 (828) 874 4111  
Fax +1 (828) 874 3981

[www.saftbatteries.com](http://www.saftbatteries.com)

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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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