

# Primary lithium battery

## LM 17130

3 V Primary lithium-manganese dioxide (Li-MnO<sub>2</sub>)

High power

1/3 A-size spiral cell

For applications requesting excellent voltage response and operating life in -40°C/+70°C environments.



### Benefits

- High voltage response, stable during most of the lifetime of the application
- Minimum voltage delay after long dormant periods
- Competitive capacity at high current and low temperature
- Easy integration into compact systems
- Low self-discharge rate  
(less than 2% after 1 year of storage at +20°C)

### Key features

- Stainless steel container
- Hermetic seal construction
- Integrated safety vent
- Non-corrosive electrolyte
- Non-restricted for transport

### Main applications

- Measuring equipment
- Industrial applications
- Professional electronics

### Cell size references

1/3 A

### Electrical characteristics

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

Nominal capacity		500 mAh
<i>(at 4.5 mA + 20°C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)</i>		
Open Circuit Voltage	(at +20°C)	approx. 3.2 V
Nominal voltage	(under 1 mA at +20°C)	3.0 V
Pulse capability		400 mA
Maximum recommended continuous current		300 mA
<i>(to maintain cell heating within safe limits)</i>		
Storage	(recommended) (for more severe conditions, consult Saft)	+30°C (+86°F) max
Operating temperature range		-40°C/+70°C (-40°F/+158°F)
<i>(Operation below ambient T may lead to reduced capacity and lower voltage readings)</i>		

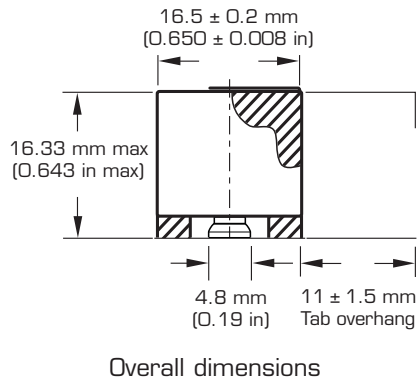
### Physical characteristics

Diameter (max)		16.7 mm (0.658 in)
Height (max)		16.33 mm (0.643 in)
Typical weight		8 g (0.28 oz)
Li metal content		approx. 0.2 g
Available termination suffix	CN, CNR FL	radial tabs flying leads... etc.
<i>(Other cell finishes available, consult Saft)</i>		



**saft**

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## Storage

- Keep storage area clean, cool, dry and ventilated.

## Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 70°C (158°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).

## Saft

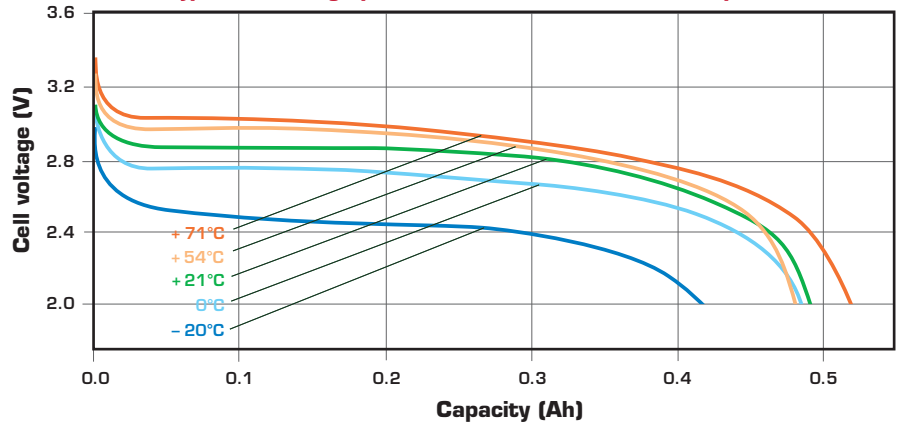
### Specialty Battery Group

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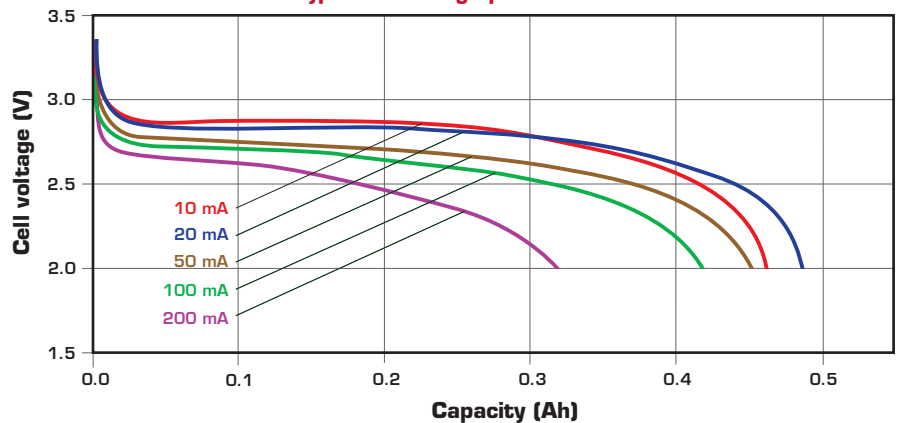
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[www.saftbatteries.com](http://www.saftbatteries.com)

Typical discharge profiles under 20 mA versus temperature



Typical discharge profiles at +20°C



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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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