

# LM 17500

## Primary Li-MnO<sub>2</sub> cell

3 V lithium manganese dioxide A-size spiral cell

Saft's LM 17500 cell is ideally suited for applications requiring high energy and long operating life, with stable voltage under high discharge rates in -40°C / +85°C environment.

### **Benefits**

- High drain/ high pulse capability
- · High voltage response, stable during most of the lifetime of the application even after long dormant periods
- · High capacity at high current and low temperature
- · Low self-discharge compatible with long operating life (less than 1% after 1 year of storage at +20°C)
- · Superior resistance to corrosion
- · Low magnetic signature

### **Key features**

- Spiral construction
- · Hermetic construction with glass to metal seal
- · Stainless steel container
- Integrated safety vent
- · Non corrosive electrolyte
- · Non pressurized at room temperature
- · RoHS and REACH compliant
- · Made in USA

## Designed to meet all major quality, safety and environment standards

- Safety: UL 1642 and IEC 60086-4
- ATEX: Compliant with IEC 60079-11 (T4 rating at +70° C). Consult Saft.
- Transport: UN 3090 and UN 3091
- · Quality: ISO 9001, Saft World Class Continuous program

## **Typical applications**

- · Utility metering
- · Alarms and security
- Tracking systems
- · GSM/GPRS communication
- · Radio communications systems
- Medical devices
- IoT devices



Electrical characteristics <sup>1</sup>		
Nominal capacity (at 1 mA (3 kΩ), +20°C, 1.5V cut-off) <sup>2</sup>		3.3 Ah
Open circuit voltage (at +20°C)		3.2 V
Nominal voltage (under 1mA at +20°C)		3.0 V
Nominal energy (at 5 mA (640 Ω), +20°C, 2.0V cut-off)		8.7 Wh
Pulse capability <sup>3</sup>		Up to 2.0 A
Maximum recommended continuous current		1.5 A
Operating conditions		
Operating temperature range <sup>4</sup>		-40°C to +85°C
Storage temperatures		
F	Recommended	+30°C max
	Allowable <sup>5</sup>	-55° C to +85° C
Physical characteristics		
Diameter (max)		17.5 mm
Height (max)		51.5 mm
Typical weight		approx. 28 g
Li metal content		1.0 g max
Termination suffix		
CN, CNR		Radial tabs
2 PF, 3 PF, 3 PF RP, 4 PF		Radial pins
FL		Flying leads
Other configurations upon request		

- <sup>1</sup> Typical values relative to cells stored up to one year at + 30°C max.
- Dependent upon current drain, temperature and cut-off.
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  Dependent upon pulse characteristics, temperature, cell history and application. Higher rates are available under certain
- circumstances

  4 To maintain cell heating within safe limits. Battery packs may imply lower level of maximum current and may require specific thermal protection. Consult Saft.

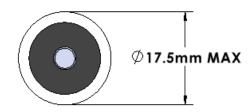
  5 Long time storage at high temperature may affect performances. Consult Saft.

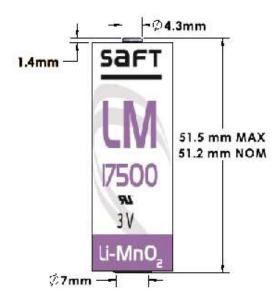




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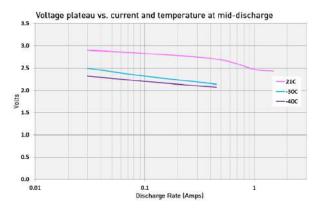


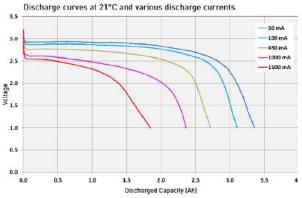
## Storage

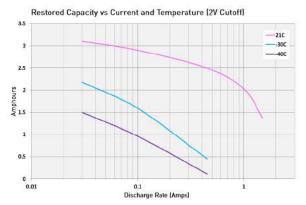
 The storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated.

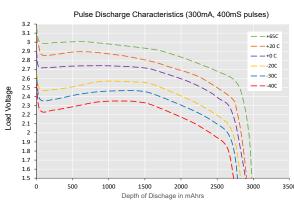
## Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 85°C, incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).











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