LM 17500 Primary Li-MnO₂ 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
- Non restricted for transport
- 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 (4 rating at +70°C)
- 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



Electrical characteristics	
(Typical values relative to cells stored for one year or less at +30 max)	
Nominal capacity (at 30mA +20°C 2.0V cut-off)	3.0 Ah
Open circuit voltage (at +20°C)	3.2 V
Nominal voltage (under 1mA at +20°C)	3.0 V
Nominal energy (at 30mA +20°C 2.0V cut-off)	8.7 Wh
Pulse capability ²	up to 2.0 A
Recommended maximum continuous current	1.5 A
Operating conditions	
Operating temperature range ³	-40°C to +85°C
Storage temperatures	
Recommended	+30°C
Allowable ⁴	-55°C to $+90$ °C
Physical characteristics	
Diameter (max)	17.5 mm
Height (max)	51.5 mm
Typical weight	approx. 28 g
1/1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	appiox. 20 g
Li metal content	1.0 g max

Available termination suffix

Termination

CN, CNR

3 PF, 3 PF RP, 4 PF, 2 PF

radial tabs

radial tabs

radial tabs

flying leads

Other configurations upon request



Dependent upon current drain, temperature and cut-off.

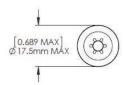
Dependent upon pulse characteristics, temperature, cell history and application. Higher rates are available under certain circumstances

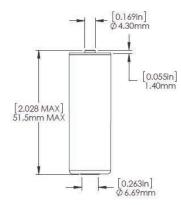
³To maintain cell heating within safe limits. Battery packs may imply lower level of maximum current and may require specific thermal protection. Consult Saft.

⁴ Long time storage at high temperature may affect performances. Consult Saft.

LM 17500

LM 17500 dimensions



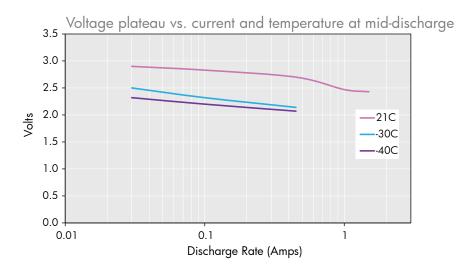


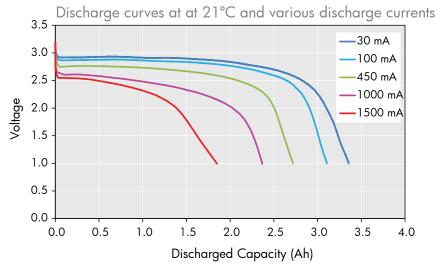
Storage

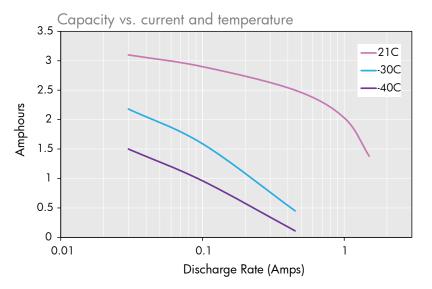
■ The storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated.

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).









Saft

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

www.saftbatteries.com

Saft America, Inc. 313 Crescent St. Valdese, NC 28690 - USA Tel.: +1 (828) 874 4111 Fax: +1 (828) 874 3981

www.saftbatteries.com

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