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
- 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	
(Typical values relative to cells stored up to one year at +30°C max)	_
Nominal capacity (at 5 mA (640 Ω), +20°C, 2.0 V cut-off) ⁽¹⁾	3.0 Ah
Open circuit voltage (at +20°C)	3.2 V
Nominal voltage (under 1 mA, +20°C)	3.0 V
Nominal energy (at 5 mA (640 Ω), +20°C, 2.0 V cut-off)	8.7 Wh
Pulse capability (2)	up to 2.0 A
Maximum recommended continuous current	1.5 A

Operating conditions		
Operating temperature range (3)		-40 °C to + 85 °C
Storage temperatures	Recommended [4]	+ 30 °C MAX

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

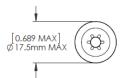
Available termination suffix

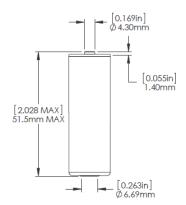
CN, CNR	radial tabs
2 PF, 3 PF, 3 PF RP, 4 PF	radial pins
FL	flying leads
Other configurations upon request	

- [1] Dependent upon current drain, temperature and cut-off.
- ^[2] Dependent upon pulse characteristics, temperature, cell history and application. Higher rates are available under certain circumstances.
- [3] To 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 dimensions



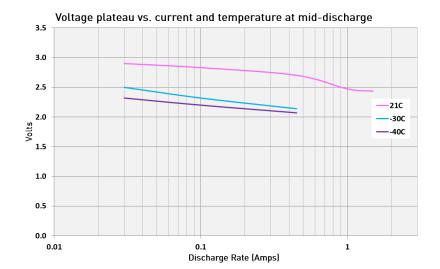


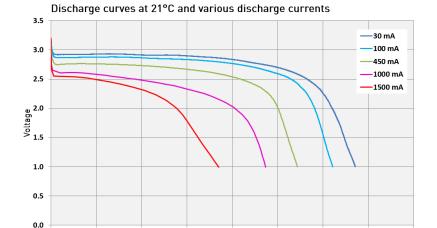
Storage

■ 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





2.0

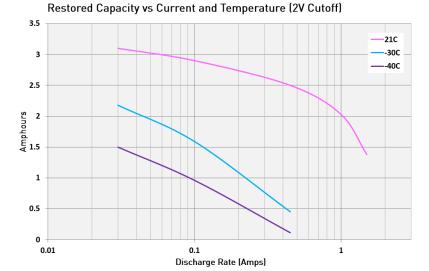
Discharged Capacity (Ah)

2.5

3.0

3.5

4.0







Saft

26, quai Charles Pasqua 92300 Levallois-Perret France

0.0

0.5

1.0

1.5

Tel.: +33 1 49 93 19 18 Fax: +33 1 49 93 19 64 www.saftbatteries.com

Saft America, Inc

313 Crescent Street Valdese, NC 28690 USA

Tel.: +1 (828) 874 41 11 Fax: +1 (828) 879 39 81 www.saftbatteries.com

Doc N° 31125-2-1120

Edition: November 2020 Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft. Published by the Communication Department Photo credit: Saft