

# LM26500-M

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

3 V lithium manganese dioxide C-size spiral cell

The LM26500-M cell is approved for use in the MIDS-LVT. All three cells must be replaced at the same time. Do not mix SAFT LM26500-M cells with other manufacturer's cells.



### 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
- Equipped with 4.5A resettable PTC
- Safety Shutdown Separator
- Sleeve – Mylar for durability
- Non-corrosive electrolyte
- Non-pressurized at room temperature
- Restricted for transport (Class 9)
- RoHS and REACH compliant
- Made in USA

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

- Safety: UL 1642 and IEC 60086-4
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001, Saft World Class Continuous program

### Applications

- Military, MIDS-LVT<sup>5</sup>

### NSN

- NSN: 6135-01-545-6582

### Electrical characteristics

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

Nominal Capacity (at 150mA +20°C 2.0V cut-off) <sup>1</sup>	7.4 Ah
Open circuit voltage (at +20°C)	3.2 V
Nominal voltage (under 1mA at +20°C)	3.0 V
Nominal energy (at 150mA +20°C 2.0 V cut-off)	20.9 Wh
Pulse capability <sup>2</sup>	Up to 4.0 A
Recommended maximum continuous current	2.0 A

### Operating conditions

Operating Temperature Range <sup>3</sup>	-40°C to +85°C
Storage temperatures	
Recommended	+30°C (86°F) max
Allowable <sup>4</sup>	-55°C to +90°C

### Physical Characteristics

Diameter (max)	26.0 mm
Height (max)	53.5 mm
Typical weight	61 g
Li metal content	approx. 2.8 g

### Terminations

Flat Ni - Plated

<sup>1</sup> Dependent upon current drain, temperature and cut-off

<sup>2</sup> Dependent upon pulse characteristics, temperature, cell history and application. Higher rates are available under certain circumstances.

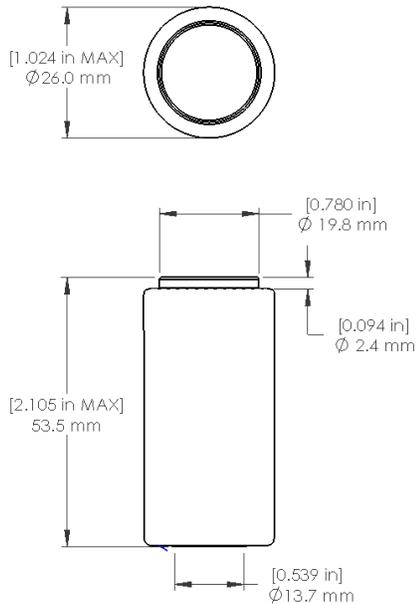
<sup>3</sup> To maintain cell heating within safe limits, Battery packs may imply lower level of maximum current and may require specific thermal protection. Consult Saft.

<sup>4</sup> Long time storage at high temperature may affect performances. Consult Saft.

<sup>5</sup> Export License: ECCN 3A611.x export license required to export from the United States.

# LM26500-M

## LM26500-M 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
- Do not mix Saft LM26500-M cells with other manufacturer's cells.
- All three cells must be replaced at the same time.

## Saft

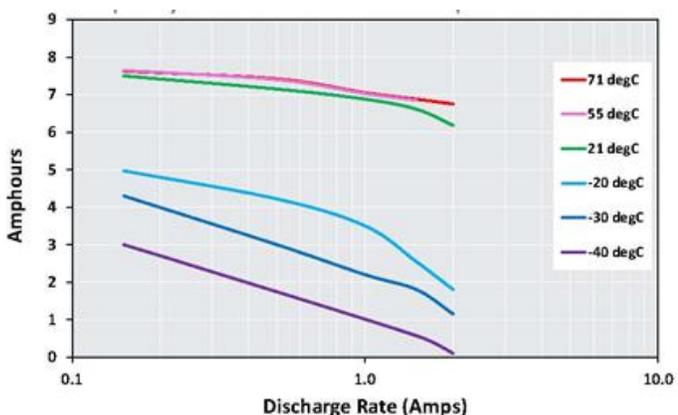
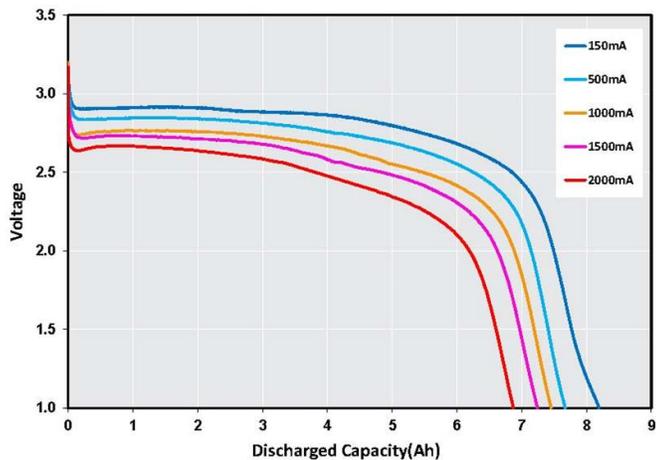
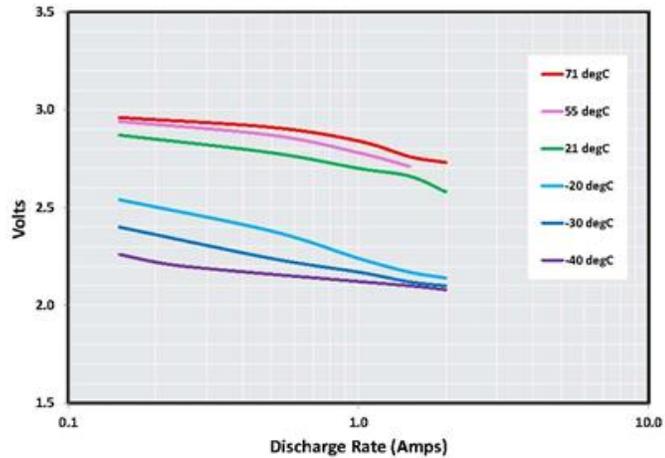
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Voltage plateau vs. rate at various temperatures at mid-discharge



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