LM 33600

Primary Li-MnO₂ cell

3 V lithium manganese dioxide D-size spiral cell

Saft's LM 33600 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
- 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

Typical applications

- Utility Metering
- Alarms and security
- 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 20 mA (160 Ω), +20°C, 2.0 V cut-off) ⁽¹⁾	13.4 Ah
Open circuit voltage (at +20 °C)	3.2 V
Nominal voltage (under 1 mA, + 20°C)	3.0 V
Nominal energy (at 20 mA (160 Ω), +20°C, 2.0 V cut-off)	37 Wh
Pulse capability (2)	up to 8.0 A
Maximum recommended continuous current	4.0 A

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

Physical characteristics	
Diameter (max)	33.7 mm
Height (max)	61.3 mm
Typical weight	113 g
Li metal content	approx. 4.4 g

Termination

Available termination suffix

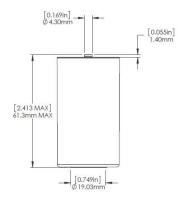
CNR	radial tabs
3 PF, 3 PF RP, 4 PF	radial pins
FL	flying leads
Other configurations upon request	

- [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 33600 dimensions



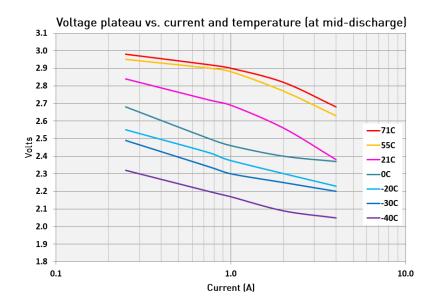


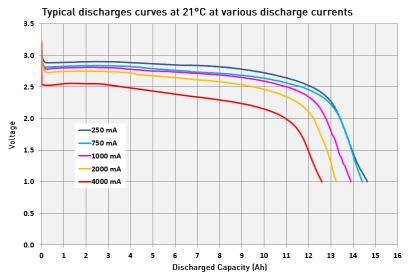
Storage

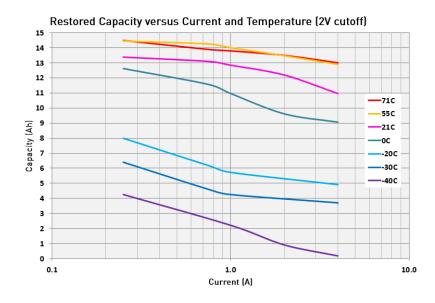
The storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated

Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above +85°C, incinerate, or expose contents to
- Do not solder directly to the cell (use tabbed cell versions instead).
- Do not obstruct venting mechanism.
- Minimum clearance 2 mm (0.08 in) at negative end of cell.









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