Primary lithium battery
LM 33600

3 V Primary lithium-manganese dioxide
High power
D-size spiral cell

For applications requesting excellent voltage response and operating life in -40°C/+70°C environments.

Benefits

- High voltage response, stable during most of the lifetime of the application
- High drain/pulse capability
- Minimum voltage delay after long dormant periods
- Competitive capacity at high current and low temperature
- Easy integration into compact system
- Low self-discharge rate *(less than 3% after 1 year of storage at +20°C)*

Key features

- Stainless steel container
- Hermetic glass-to-metal sealing
- Built-in safety vent
- Non-corrosive electrolyte
- Restricted for transport *(Class 9)*

Main applications

- Radiocommunication
- Buoys
- Measuring equipment
- Industrial applications
- Professional electronics
- Marine equipment
- ELTS, EPIRBS, etc...

Cell size references	UM1 – R20 – D

Electrical characteristics

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

Nominal capacity *(at 250 mA +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)*		10.5 Ah
Open Circuit Voltage	(at + 20°C)	approx. 3.2 V
Nominal voltage	(under 1 mA at + 20°C)	3.0 V
Pulse capability		4 A
Maximum recommended continuous current *(to maintain cell heating within safe limits)*		2.5 A
Storage	*(recommended)* *(for more severe conditions, consult Saft)*	+ 30°C (+ 86°F) max
Operating temperature range *(Operation below ambient T may lead to reduced capacity and lower voltage readings)*		- 40°C/+70°C (- 40°F/+158°F)

Physical characteristics

Diameter *(max)*		34 mm (1.338 in)
Height *(max)*		61.1 mm (2.405 in)
Typical weight		116 g (4.09 oz)
Li metal content		approx. 3.6 g
Available termination suffix		
	CN, CNR	radial tabs
	CNA (AX)	axial leads
	FL	flying leads... etc.

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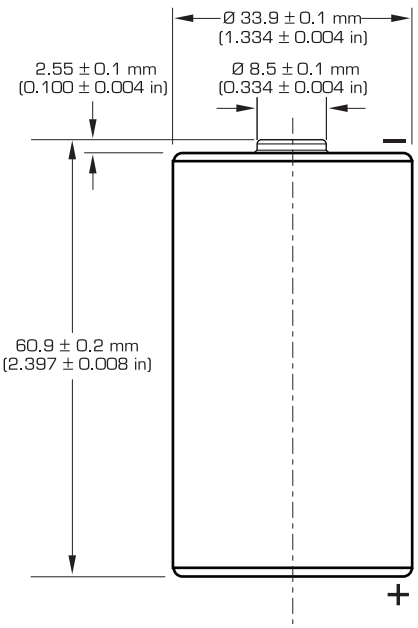
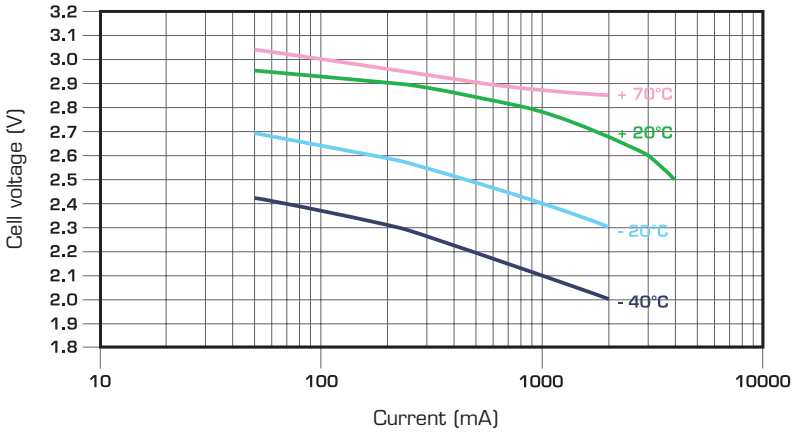
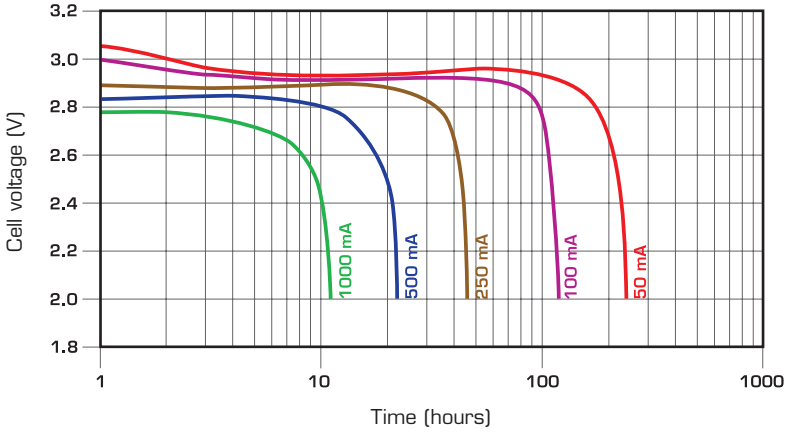
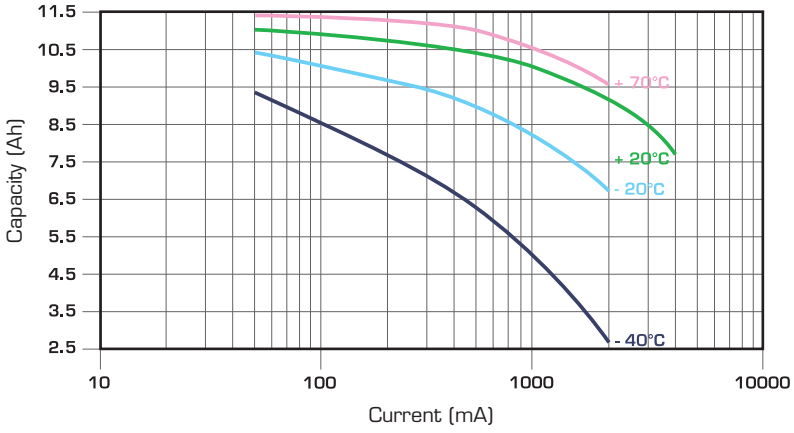




Voltage plateau versus Current and Temperature (at mid-discharge)



Typical discharge profiles at +20°C



Restored Capacity versus Current and Temperature (2.0 V cut off)

Storage

- The storage area should be clean, cool, dry and ventilated.

Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 70°C (158°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).

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Doc. N° 31078-2-1006

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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