

Primary lithium battery

LM 22150

3 V Primary lithium manganese dioxide (Li-MnO₂) battery

High power
1/3 Sub C-size spirial cell

For applications requiring excellent voltage response and operating life in -40°C/+70°C environment

Benefits

- High voltage response, stable during most of the life of the application
- Minimal voltage delay after long dormant periods
- Competitive capacity at high current and low temperature
- Easy integration into compact systems
- Low self-discharge rate (less than 2% after 1 year of storage at +20°C)

Key Features

- Hermetic seal construction
- Integrated safety vent
- Non-corrosive electrolyte
- Non-restricted to Class 9

Typical applications

- Measurement equipment
- Industrial applications
- Professional electronics

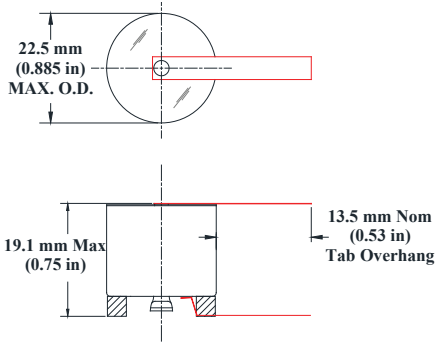


| | | |
|---|----------------|----------|
| Cell size reference | 1/3 sub-C | |
| Electrical characteristics | | |
| <i>(Typical values relative to cells stored up to one year at +30°C max)</i> | | |
| Nominal capacity at 40 mA to 2 V cut-off At 21°C | 830 mAh | |
| Open circuit voltage (at 20°C) | approx 3.2 V | |
| Nominal voltage (under 1mA at +20°C) | 3.0 V | |
| Pulse capability | 750 mA | |
| Maximum continuous current <i>(To maintain cell heating within safe limits)</i> | 300 mA | |
| Storage temperature (recommended) <i>(For higher temperature contact Saft)</i> | 30°C | |
| Operating temperature <i>(Operation at colder temperature will result in lower capacity and lower voltage)</i> | -40°C to +71°C | |
| Physical characteristics | Metric | Imperial |
| Diameter (max) | 22.5 mm | 0.885 in |
| Height (max) | 19.1 mm | 0.75 in |
| Maximum weight | 15 g | 0.53 oz |
| Weight of Li metal content | 0.4 g | — |
| Available termination suffix | | |
| CN, CNR | radial tabs | |
| FL | flying leads | |
| <i>(Other cell finishes possible by request)</i> | | |



SAFT

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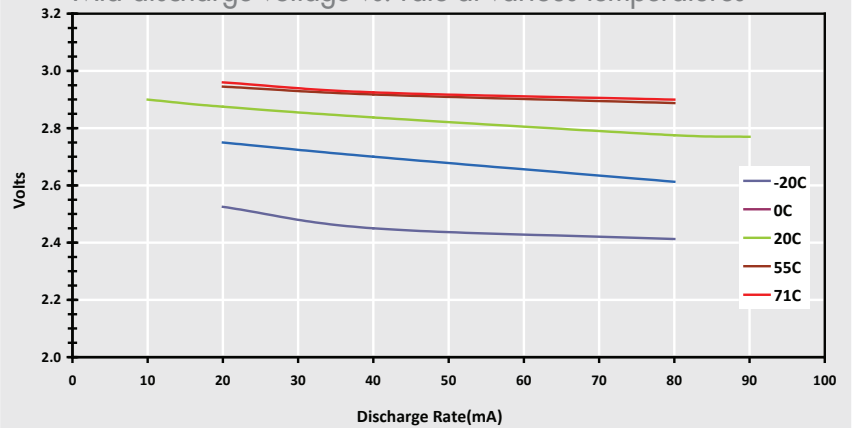
Storage

- Keep storage area clean, cool, dry and ventilated

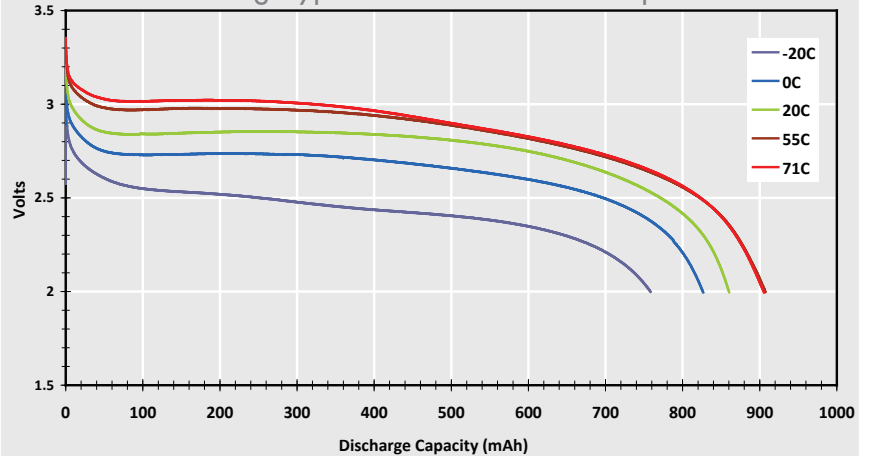
Warning

- Fire, explosion, and burn hazard
- Do not recharge, short circuit, crush, disassemble, heat above 71°C, or incinerate
- Do not solder directly to the cell (use tabbed cell versions instead)

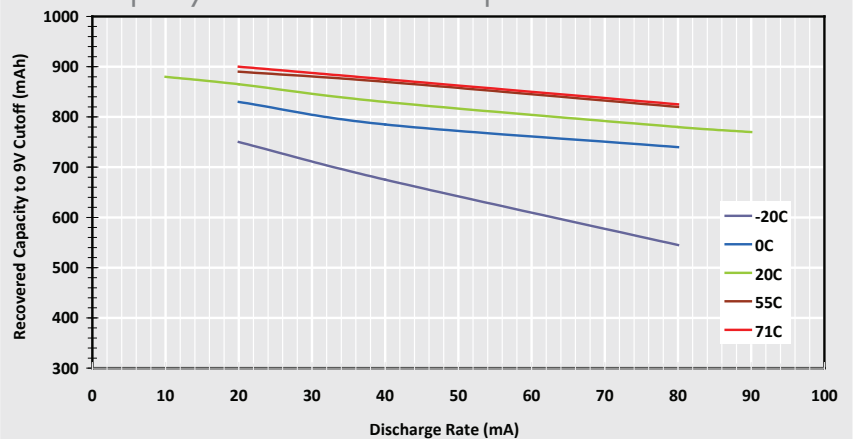
Mid-discharge voltage vs. rate at various temperatures



40 mA discharge typical curves at various temperatures



Capacity vs. rate at various temperatures



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