High Power Primary Li Metal Oxide Cell - Military Grade

Electrical characteristics
(for batteries stored at RT for 1 year or less)

- Open circuit voltage: 3.95 to 4.07 V
- Closed circuit voltage: 3.83 V min.
- Discharge capacity under 20 mA (at RT to 2.8 V): 200 mAh
- Discharge capacity under 225 mA (at RT to 2.8 V): 190 mAh

Mechanical characteristics

- Length: 27.4 +0/-1 mm
- Diameter: 14.8 ± 0.3 mm
- Weight: 11 g max.

Operating conditions

- Maximum discharge current:
  - Continuous to 2.5 V: 2.5 A
  - Pulse, 1 sec, to 2.6 V: 6.5 A
- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -55 °C to +85 °C
- Cell impedance at RT: < 175 mΩ at 1 kHz

Accumulated capacity loss (when tested at RT @ 20 mA to 2.8 V)

<table>
<thead>
<tr>
<th>Storage Time (years)</th>
<th>22 °C</th>
<th>55 °C</th>
<th>72 °C</th>
<th>85 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3%</td>
<td>6%</td>
<td>10%</td>
<td>N/A</td>
</tr>
<tr>
<td>5</td>
<td>7%</td>
<td>22%</td>
<td>40%</td>
<td>N/A</td>
</tr>
<tr>
<td>10</td>
<td>11%</td>
<td>32%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>15</td>
<td>15%</td>
<td>42%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>20</td>
<td>18%</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Environmental Compliance with military specification

- Vibration: MIL-STD 810G Method 514.6
- Shock: MIL-STD 810G Method 516.6
- Temperature Shock: MIL-STD 810G Method 503.5
- Salt fog: MIL-STD 810G Method 509.5
- Altitude: MIL-STD 810G Method 500.5
- Acceleration: 50,000 g
- Spinning: 30,000 rpm

Safety Tested according to:

- Short circuit at RT and at +55 °C: UN, IEC
- Oven at +150 °C: UL, IEC
- Nail penetration: N/A
- Over-charge & over-discharge (200 % at currents up to 1 A): UL, UN, IEC
- Impact: UL, UN, IEC
- Crush: UL, IEC

UN Manual of Tests and Criteria, UL 1642, IEC 60086

WARNING:
Fire, Explosion, And Severe Burn Hazard.
Do Not Recharge, Crush, Disassemble, Heat Above 100°C, Incinerate Or Short Circuit.

www.tadiranbatteries.com

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Performance data

**Discharge capability at RT**

- Voltage [V] vs. Capacity [mAh]
- Discharge capability at 2 A, 1 A, and 0.05 A

**Pulse capability at RT**

- Voltage [V] vs. Time [ms]
- Pulse capability at 0.25 A, 1 A, 2 A, and 3 A

**Discharge capability of 0.5 A at several temperatures**

- Voltage [V] vs. Capacity [mAh]
- Discharge capability at -40°C, -30°C, -20°C, 22°C, and 85°C

**Pulse capability of 0.5 A at several temperatures**

- Voltage [V] vs. Time [ms]
- Pulse capability at -40°C, -25°C, 0°C, 22°C, and 85°C

**Capacity vs. OCV**

- OCV [V] vs. Capacity [mAh]

**Pulse capability of 0.25 A at several temperatures**

- Voltage [V] vs. Time [ms]
- Pulse capability at -40°C, -25°C, 0°C, 22°C, and 85°C
Lead terminations

TLM-1530M /T (Soldering Tabs)
Cat. # 72143622150

TLM-1530M/S (Used in battery packs only)
Cat. # 72143622000

TLM-1530M/TP (PCB Mountable - Polarized)
Cat. # 72143632000

TLM-1530M/PT2 (PCB Mountable)
Cat. # 72143635000

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