Ultra High Power Primary Li Metal Oxide Cell

Electrical characteristics (Typical Data)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open circuit voltage</td>
<td>3.95 to 4.07 V</td>
</tr>
<tr>
<td>Closed circuit voltage</td>
<td>3.88 V min.</td>
</tr>
<tr>
<td>Discharge capacity under 20 mA (at RT to 2.8 V)</td>
<td>400 mAh</td>
</tr>
<tr>
<td>Discharge capacity under 5 A (at RT to 2.8 V)</td>
<td>310 mAh</td>
</tr>
</tbody>
</table>

(For batteries stored at RT for 1 year or less)

**Mechanical characteristics**

- Length: 51.0 ±0/-1 mm
- Diameter: 14.8 ± 0.3 mm
- Weight: 20.0 g max.

**Operating conditions**

- Maximum discharge current: Continuous to 2.5 V 15 A
  Pulse, 1 sec, to 3.0 V 20 A
- Operating temperature range: -40 °C ÷ +85 °C
- Storage temperature range: -55 °C ÷ +85 °C
- Cell impedance at RT: < 50 mΩ at 1 kHz

**Environmental Compliance with military specification**

- Vibration: UN
- Shock: UN
- Temperature Shock: TBD
- Salt fog: TBD
- Altitude: UN
- Acceleration: TBD
- Spinning: TBD

**Safety**

- Short circuit at RT and at +55 °C: UN, IEC
- Oven at +150 °C: UL, IEC
- Over-charge (200 % at currents up to 0.5 A): UL, UN, IEC
- Over-discharge (200 % at currents up to 2 A): UL, UN, IEC
- Impact: UL, IEC

**Technology**

- Anode: Carbon based
- Cathode: Multi metal oxides
- Electrolyte: Organic
- Shut down separator

**Key Features**

- High power 4 V cell
- Hermetically sealed (glass-to-metal)
- Wide operating temperature range
- Low self discharge
- Long storage life
- High homogeneity
- End of Life indication capability
- High reliability
- Lightweight
- Safe design
- Assembled in custom packs (per request)

**Main Applications**

- Ordnance fuzing power source
- Navigation systems
- Missile systems
- Telemetry
- Emergency systems
- Electronic warfare systems

**Ordering Part No.**

- TLM-1550UHP/T  72155422150
- TLM-1550UHP/TP  72155432000
- TLM-1550UHP/PT2  72155435000

**WARNING:**


www.tadiranbatteries.com

---

THE INFORMATION PROVIDED HERE IS NECESSARILY OF A GENERAL NATURE. SINCE SPECIFIC PERFORMANCE DEPENDS ON ACTUAL OPERATING AND STORAGE CONDITIONS, OUR ENGINEERS WILL PROVIDE PARTICULAR APPLICATION INSTRUCTIONS UPON REQUEST. DATA SUBJECT TO REVISION WITHOUT NOTICE. ANY REPRESENTATION IN THIS BROCHURE CONCERNING PERFORMANCE ARE FOR INFORMATION PURPOSES ONLY AND NOT WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF FUTURE PERFORMANCE. TADIRAN'S STANDARD LIMITED WARRANTY, STATED IN ITS SALES CONTRACT OR ORDER CONFIRMATION FORM IS THE ONLY WARRANTY OFFERED BY TADIRAN.
Performance data

Discharge capability at RT

Pulse capability (2 A) at several temperatures

Discharge capability (2 A) at several temperatures

Capacity vs. OCV

Pulse capability at RT