TLM-1530UHP



Ultra High Power Primary Li Metal Oxide Cell

Electrical characteristics (Typical Data)

Open circuit voltage 3.95 to 4.07 V Closed circuit voltage 3.88 V min.

(at 0.1 sec on 0.25 A load)

Discharge capacity under 10 mA 180 mAh

(at RT to 2.8 V)

Discharge capacity under 2.5 A 150 mAh

(at RT to 2.8 V)

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

Mechanical characteristics

Operating conditions

Maximum discharge current:

Continuous to 2.5 V 7.5 A Pulse, 1 sec, to 3.0 V 10 A Operating temperature range $-40 \,^{\circ}\text{C} \div +85 \,^{\circ}\text{C}$ Storage temperature range $-55 \,^{\circ}\text{C} \div +85 \,^{\circ}\text{C}$

Cell impedance at RT Accumulated capacity loss (when tested at RT

@ 10 mA to 2.8 V)

	Storage Temperature			
Storage Time (years)	22 °C	55 °C	72 °C	85 °C
1	6 %	10 %	18 %	TBD
5	8 %	20 %	N/A	N/A
10	10 %	N/A	N/A	N/A
15	15 %	N/A	N/A	N/A
20	20 %	N/A	N/A	N/A

 $< 100 \text{ m}\Omega$ at 1 kHz

Environmental

Compliance with UN Manual of Test & Criteria

Safety Tested according to:

Short circuit at RT and at +55 °C

Oven at +150 °C

Over-charge (100 % at currents up to 0.25 A)

Over-discharge (100 % at currents up to 7.5 A)

UL, UN, IEC

WARNING:

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

Technology

- Anode: Carbon based
- Cathode: Multi metal oxides

Key Features

- Wide operating temperature range

- High homogeneity
- End of Life indication capability
- High reliability
- Lightweight
- Safe design
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- Assembled in custom packs (per request)

Main Applications

- Ordnance fuzing power source
- Navigation systems
- Telemetry

Ordering Part No.

▼ TLM-1530UHP/T 72153422150
 ▼ TLM-1530UHP/TP 72153432000
 ▼ TLM-1530UHP/PT2 72153435000

Tadiran Batteries Ltd.

34 Yitzhak Rabin Boulevard Kiryat Ekron 76950, Israel Tel: +972 (8) 944-4555 Fax: +972 (8) 941-3079

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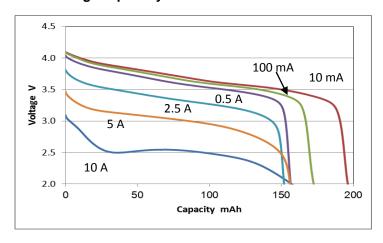
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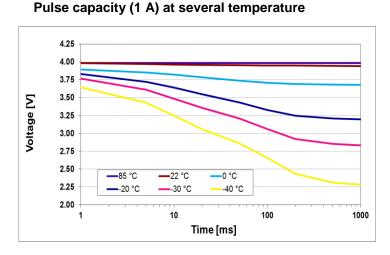
TLM-1530UHP



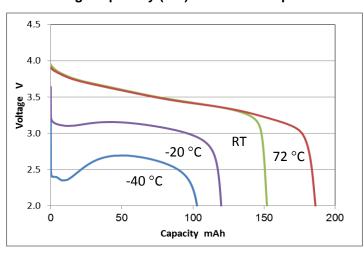
Performance data

Discharge capability at RT

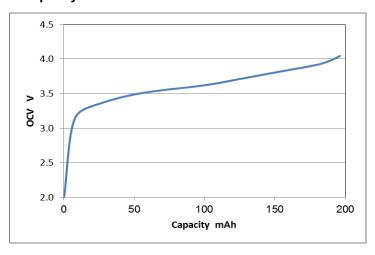




Discharge capability (1 A) at several temperatures



Capacity vs. OCV



Pulse capability at RT

