TLM-1550HE



High Power Primary Li Metal Oxide Cell - Preliminary

Electrical characteristics

Open circuit voltage 4.02 to 4.07 V Closed circuit voltage 3.95 V min. (at 0.1 sec on 0.5 A load)
Discharge capacity under 20 mA 1000 mAh (at RT to 2.8 V)
Discharge capacity under 500 mA 820 mAh (at RT to 2.8 V)

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

Mechanical characteristics

Length (without PTC)	51.0 +0/-1 mm
Diameter	$14.8 \pm 0.3 \; \text{mm}$
Weight	22.5 g max.

Operating conditions

Maximum discharge current:

Continuous to 2.5 V 5 A Pulse, 1 sec, to 2.6 V 15 A Operating temperature range -40 °C \div +85 °C Storage temperature range -55 °C \div +85 °C Cell impedance at RT < 80 m Ω at 1 kHz

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

	Storage Temperature			
Storage Time (years)	22 °C	55 °C	72 °C	85 °C
1	5 %	7 %	15 %	N/A
5	7 %	25 %	40 %	N/A
10	10 %	35 %	N/A	N/A
15	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A

Environmental Compliance with military specification

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

Safety Tested according to:

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
·	•

WARNING:

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

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

Technology

- Anode: Carbon based
- Cathode: Multi metal oxides

Key Features

- High homogeneity
- High reliability
- Lightweight
- Safe design
- Assembled in custom packs (per request)

Main Applications

- Ordnance fuzing power source
- Navigation systems
- Missile systems
- **X** Telemetry
- Emergency systems

Ordering Part No.

X	TLM-1550HE/Z2/T*	72155822200
X	TLM-1550HE/Z2/TP*	72155832200
X	TLM-1550HE/Z2/PT2*	72155835200

^{*}Z2 indicates cells with a re-settable fuse (PTC)

Tadiran Batteries Ltd.

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

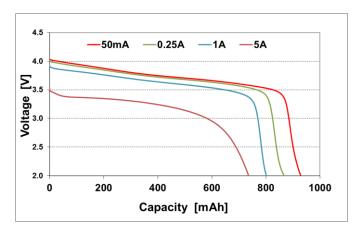
www.tadiranbatteries.com

TLM-1550HE

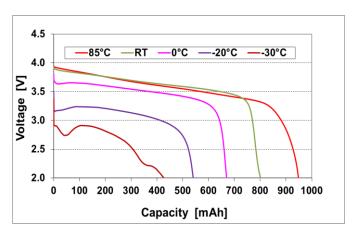


Performance data

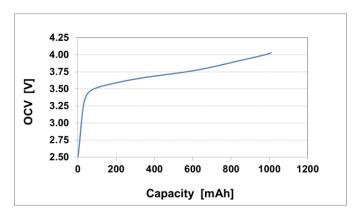
Discharge capability at RT



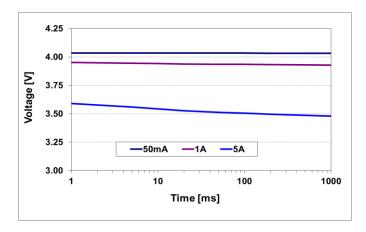
Discharge capability of 1 A at several temperatures



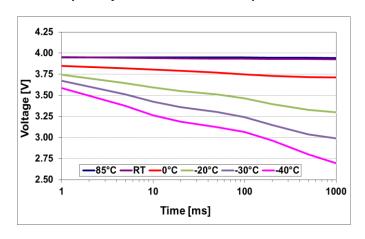
Capacity vs. OCV



Pulse capability at RT



Pulse capability of 1 A at several temperatures



Rev B, Nov 2012 2 of 2 ECN 6102010