TLM-1520HE



High Power Primary Li Metal Oxide Cell

Electrical characteristics

Open circuit voltage Closed circuit voltage (at 0.1 sec on 0.125 A load) Discharge capacity under 5 mA (at RT to 2.8 V) Discharge capacity under 125 mA (at RT to 2.8 V)		4.02 to 4.07 V 3.95 V min. 250 mAh	3.95 V min.	
		200 mAh		
(For batteries stored at RT for 1 year or less)				
Mechanical characteristic	S			
Length (without PTC) Diameter Weight Operating conditions		20.0 +0/-1 mm 14.8 ± 0.3 mm 9 g max.	 Technology Anode: Carbon based ⊠ Cathode: Multi metal oxides ⊠ Electrolyte: Organic 	
Maximum discharge curren	t.		Shut down separator	
Continuous to 2.5 V Pulse, 1 sec, to 2.6 V Operating temperature range Storage temperature range Cell impedance at RT		1.5 A 3.5 A -40 °C ÷ +85 °C -55 °C ÷ +85 °C < 300 mΩ at 1 kHz	 Key Features ⊠ High power 4 V cell ⊠ Hermetically sealed (glass-to-metal) ⊠ Wide operating temperature range ☑ Low self discharge 	
Accumulated capacity loss (when tested at RT @ 5 mA to 2.8 V)	Storage Time (years) 1 5 10 15 20	Storage Temperature 22 °C 55 °C 72 °C 85 °C 5 % 7 % 15 % N/A 7 % 25 % 40 % N/A 10 % 35 % N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	 Long storage life High homogeneity End of Life indication capability High reliability Lightweight Safe design Assembled in custom packs (per request 	
Environmental	Cor	npliance with specification	Main Applications	
Vibration Shock Temperature Cycles Altitude Acceleration Spinning		UN, UL UN, UL UN, UL UN, UL TBD TBD	 Ordnance fuzing power source Navigation systems Missile systems Telemetry Emergency systems Electronic warfare systems 	
Safety		Tested according to:	Ordering Part No. ☑ TLM-1520HE/T 72152822150	
Short circuit at RT and at +55 °C Oven at +130 °C Over-charge (200 % at currents up to 0.125 A)		UL, UN, IEC UL, IEC UL, UN, IEC	▼ TLM-1520HE/TP 72152832000 ▼ TLM-1520HE/PT2 72152835000	
Over-discharge (200 % at currents up to 0.5 A) Impact UN Manual of Tests and Criteria, UL 1642, IEC 60086		UL, UN, IEC UL, IEC	Tadiran Batteries Ltd. 34 Yitzhak Rabin Boulevard Kiryat Ekron 76950, Israel Tel: +972 (8) 944-4555 Fax: +972 (8) 941-3079	
WARNING:	nd Sovere Pure He	Tord	unum tadiranhattorios com	

www.tadiranbatteries.com

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Rev A, Dec. 2013

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CERTIFIED

Fire, Explosion, And Severe Burn Hazard.

Above 100°C, Incinerate Or Short Circuit.

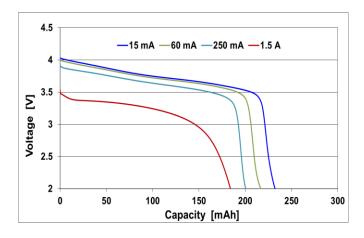
Do Not Recharge, Crush, Disassemble, Heat

TLM-1520HE

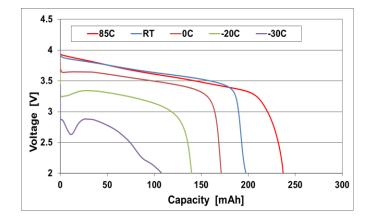


Performance data

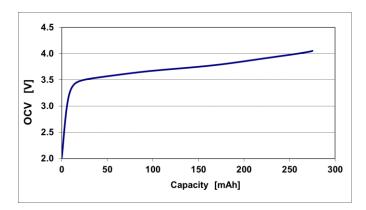
Discharge capability at RT



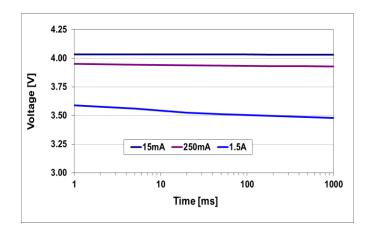
Discharge capability of 0.25 A at several temperatures



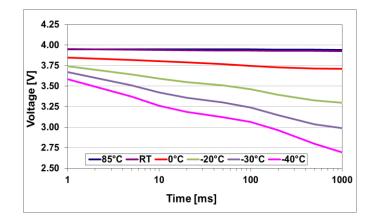
Capacity vs. OCV



Pulse capability at RT



Pulse capability of 250 mA at several temperatures



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