TLM-1550USM

AA Size High Power Primary Lithium Battery

Notice: The application load profile has to be approved by Tadiran.



Length Diameter Weight

53 mm. Max 15.1 mm. Max 21 gr. Max

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

Open Circuit Voltage Closed Circuit Voltage @ 0.1 sec.	3.90 to 4.07 V 0.5 A load, 3.88 V minimum
Discharge	700 1
Capacity @ 50 mA & RT to 2.5 V	700 mAh
Capacity @ 1 A & RT to 2.5 V	650 mAh
Maximum Discharge Current	
Continuous to 2.5 V	4 A
1 second pulse to 2.6 V	9 A
Discharge Temp. Range	-40 to +85 °C
o. – –	

Storage Temp. Range Cell impedance

-55 to +85 °C

Less than 100 mΩ at 1 kHz

Accumulated Capacity Loss *

Storage temperature	22 °C	55 °C	72 °C
Storage time, years			
1	3 %	6 %	10 %
5	7 %	22 %	40 %
10	11 %	32 %	N/A
15	15 %	42 %	N/A
20	18 %	N/A	N/A

* When tested at RT at 5 mA to 2.5 V

Safety Considerations

The cells successfully passed the following tests: Altitude simulation Shock & Vibration Short Circuit at RT & +57 °C Heating at 130 °C Forced Discharge Crush **Temperature Cycling**

Key Features

LITHIU

- High Power 4 V
- 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 A (per request)

Main Applications

đ	Emergency Systems		
ſ	Telemetry		
đ	Navigation systems		
đ	Non lethal weapons		
đ	Electronic warfare systems		
đ	Ordnance fuzing power source		
đ	Medical Devices		
đ	Automotive		
đ	Internet of things (IoT	-)	
Ordering P/N:			
TLM-1550USM/S		72-1569-22000	
TLM-1550USM/T		72-1569-22150	
TLI	M-1550USM/Z2/TP	72-1569-32200	

WARNING:

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

www.tadiranbatteries.com

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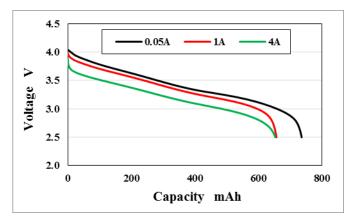
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TLM-1550USM

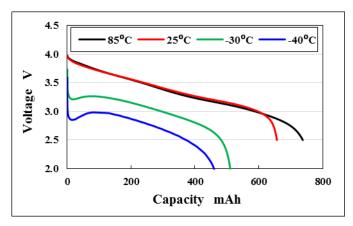


Performance Data

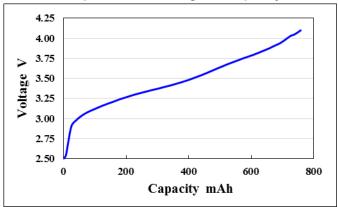
Discharge curves at Room Temperature

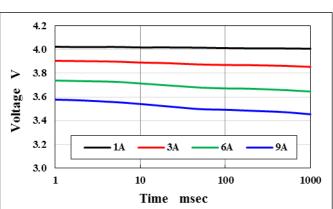


Discharge curves at 1 A



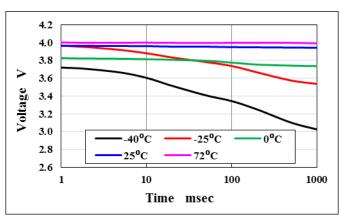
Open Circuit Voltage vs Capacity





Pulse capability at Room Temperature

Pulse capability at 2 A



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