For high temperature applications

TLM-1550HTM



AA Size Primary Lithium Battery

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



Physical Characteristics

Length51.5 mm. maxDiameter $14.7 \pm 0.3 \text{ mm}$ Weight20 gr. max

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

Open Circuit Voltage 3.95 to 4.07 V

Discharge

Capacity @ 20 mA & RT to 2.5 V 500 mAh

Maximum Discharge Current

Continuous to 2.5 V 5 A 1 second pulse to 2.5 V 15 A

Discharge Temperature Range -40 to +135 °C Storage Temperature Range -55 to +135 °C

Cell impedance Less than 100 m Ω 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 2.8 V

Self-discharge at elevated temperatures

Temperature	85 °C	100 °C	125 °C
Self-discharge	15 µA	25 μΑ	50 μA

Key Features

- 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 (per request)

Main Applications

- Medical autoclavable devices
- Automotive utilities at high temp
- Oil and gas drilling
- Heavy-duty vehicle engines

Ordering P/N:

TLM-1550HTM/S 72-1563-22000 TLM-1550HTM/T 72-1563-22150 TLM-1550HTM/TP 72-1563-32000

Safety Considerations

The cells successfully passed the following tests:

Altitude simulation

Shock & Vibration

Short Circuit at RT & +57 °C & +72 °C

Heating at 150 °C

Forced Discharge

Crush

Temperature Cycling

WARNING:

Fire, Explosion, And Severe Burn Hazard. Do Not Recharge, Crush, Disassemble, Heat Above 135°C, Short Circuit, Incinerate Or Expose Contents to water.

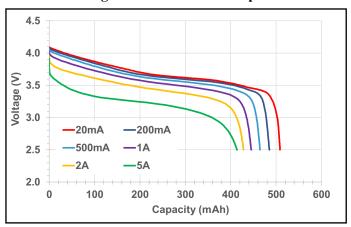
www.tadiranbatteries.com

TLM-1550HTM

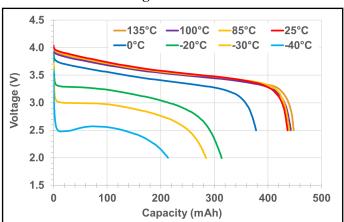


Performance Data

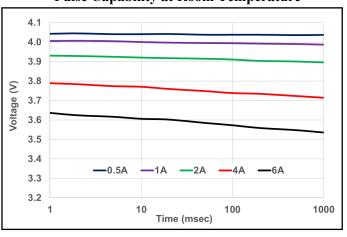
Discharge curves at Room Temperature



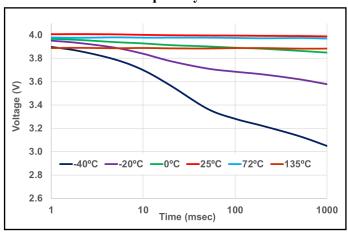
Discharge curves at 1 A



Pulse Capability at Room Temperature



Pulse Capability at 1 A



Open Circuit Voltage vs Capacity

