

For high temperature applications TLM-1550HTM



AA Size Primary Lithium Battery

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

TLM
LITHIUM



Physical Characteristics

Length	53 mm. Max
Diameter	15.1 ± 0.3 mm
Weight	20 gr. Max

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

Open Circuit Voltage	3.95 to 4.07 V
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Discharge

Capacity @ 20 mA & RT to 2.5 V	500 mAh
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Maximum Discharge Current

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

Discharge Temp. Range	-40 to +135 °C
Storage Temp. Range	-55 to +85 °C
Cell impedance	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 2.8 V

Self-discharge at elevated temperatures

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

Safety Considerations

The cells successfully passed the following tests:

Altitude simulation
Shock & Vibration
Short Circuit at RT & +57 °C & +72 °C
Heating at 170 °C
Forced Discharge
Crush
Temperature Cycling

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

WARNING:

Fire, Explosion, And Severe Burn Hazard.
Do Not Recharge, Crush, Disassemble,
Heat Above 150°C, Short Circuit,
Incinerate Or Expose Contents to water.

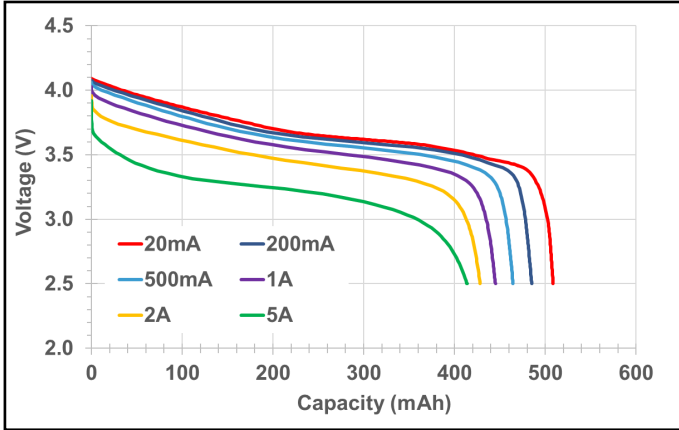
www.tadiranbatteries.com

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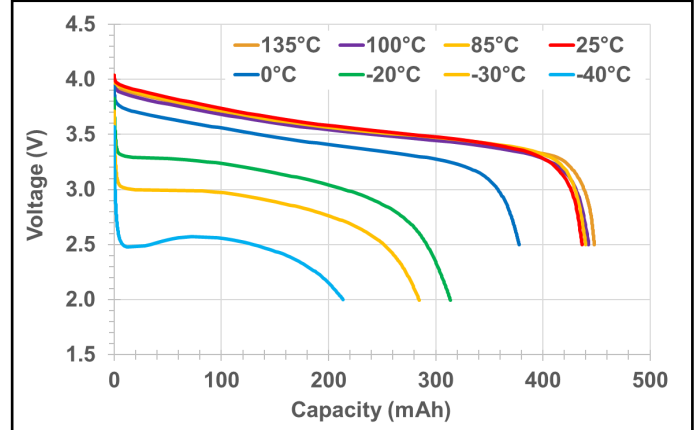


Performance Data

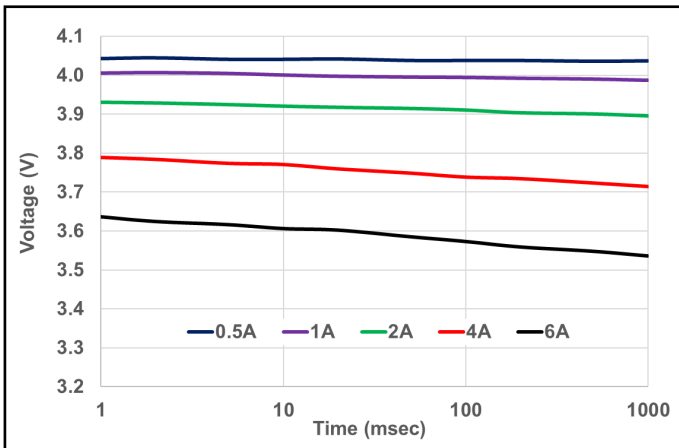
Discharge curves at Room Temperature



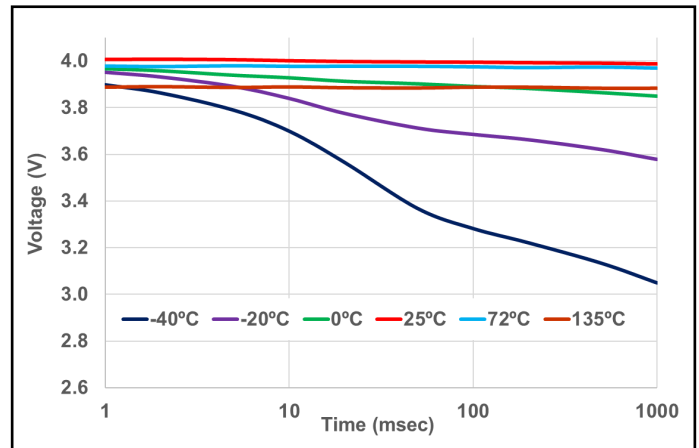
Discharge curves at 1 A



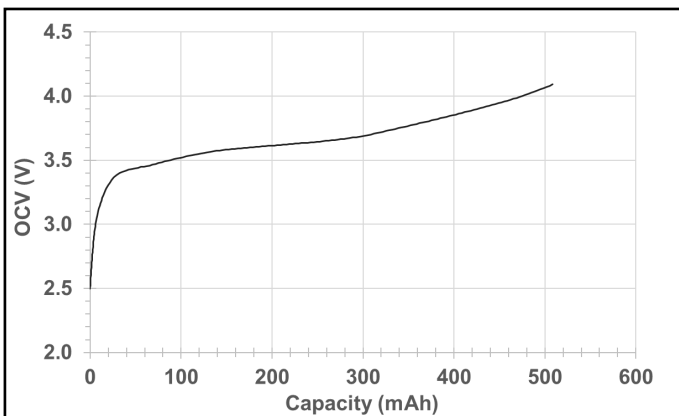
Pulse Capability at Room Temperature



Pulse Capability at 1 A



Open Circuit Voltage vs Capacity



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