

For high temperature utility

TLM-1550HT



AA Size Primary Lithium Battery



Physical Characteristics

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

Electrical characteristics

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 Temp.	22 °C	55 °C	72 °C	85 °C
Storage Time [Y]				
1	3%	6 %	10 %	TBD
5	7 %	22 %	40%	N/A
10	11 %	32%	N/A	N/A
15	15 %	42%	N/A	N/A
20	18 %	N/A	N/A	N/A

* When tested at RT at 5 mA to 2.8 V

Self -discharge at elevated temperatures

T°C	Self discharge (µA)
85	15
100	25
125	50

Safety Considerations

The cells successfully passed the following tests:

Shock & Vibration	UN
Short Circuit at RT, +55 °C & +72 °C	UN
Heating at 170 °C	
Forced Discharge	UN
Crush & Impact	UN

UN Manual of Tests & Criteria

WARNING:

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

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 devices
- Automotive utilities at high temp
- Oil drilling
- Vehicle engines
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Ordering P/N:

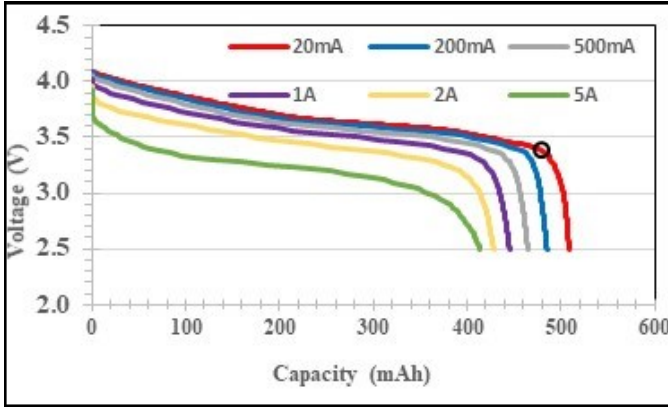
To be released

www.tadiranbatteries.com

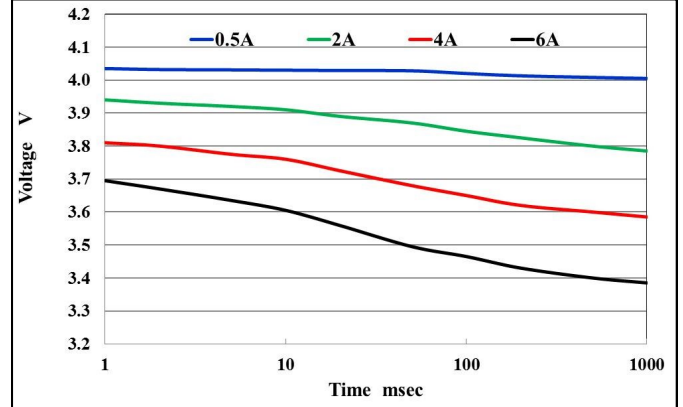
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Performance Data

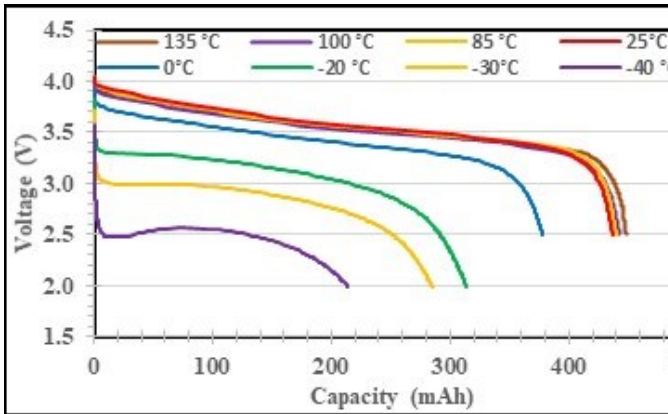
Discharge curves at Room Temperature



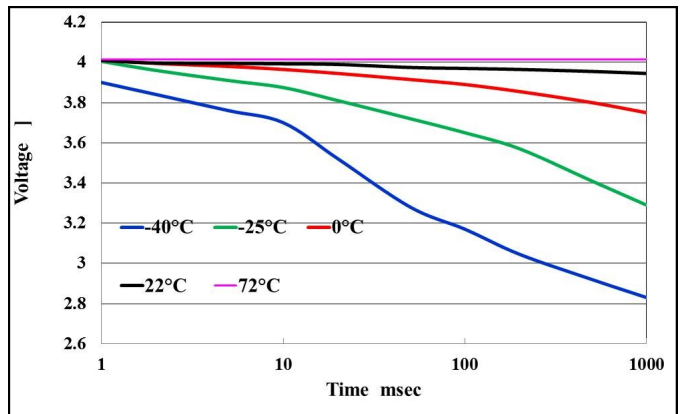
Pulse capability at Room Temperature



Discharge capability at 1A

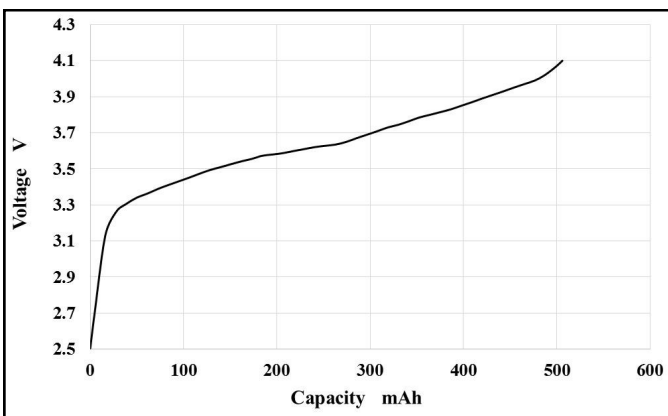


Pulse capability at several Temp. @ 1 A



*Performance at beyond 72°C, up to 135°C is similar to that of 72°C

Capacity vs. OCV



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