

TLM-1550S

AA Size High Power Primary Lithium Battery



Physical Characteristics

Length	53 mm. Max
Diameter	15.1 mm. Max
Weight	21 gr. Max

Characteristics

Open Circuit Voltage	3.90 to 4.07 V
Closed Circuit Voltage @ 0.1 sec.	0.5 A load, 3.88 V minimum

Discharge

Capacity @ 50 mA & RT to 2.5 V	1000 mAh
Capacity @ 1 A & RT to 2.5 V	850 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
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
Storage Time [Y]			
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

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

Main Applications

- Emergency Systems
- Telemetry
- Navigation systems
- Non lethal weapons
- Electronic warfare systems
- Ordnance fuzing power source
- Medical Devices
- Automotive
- Internet of things (IOT)

Ordering P/N:

TLM-1550S/S	72-1559-22000
TLM-1550S/T	72-1559-22150

* Z2 - Indicates that the cell is equipped with PTC- SRP 200

Safety Considerations

The cells successfully passed the following tests:

Shock & Vibration	UL
Short Circuit at RT, & +55 °C	UN
Heating at 130 °C	
Forced Discharge	UN
Crush & Impact	UN
Temperature Cycling	UN

UN Manual of Tests & Criteria



WARNING:

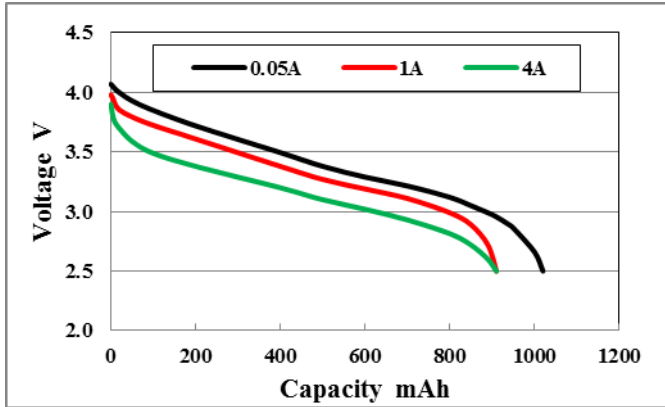
Fire, Explosion, And Severe Burn Hazard.
Do Not Recharge, Crush, Disassemble,
Heat Above 100 °C, Incinerate Or Short
Circuit.

www.tadiranbatteries.com

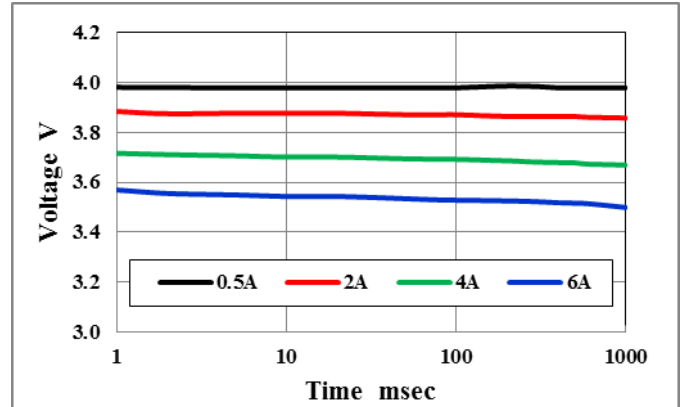
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Performance Data

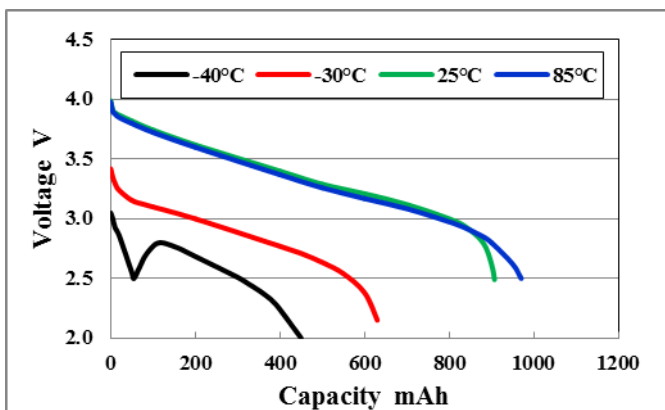
Discharge curves at Room Temperature



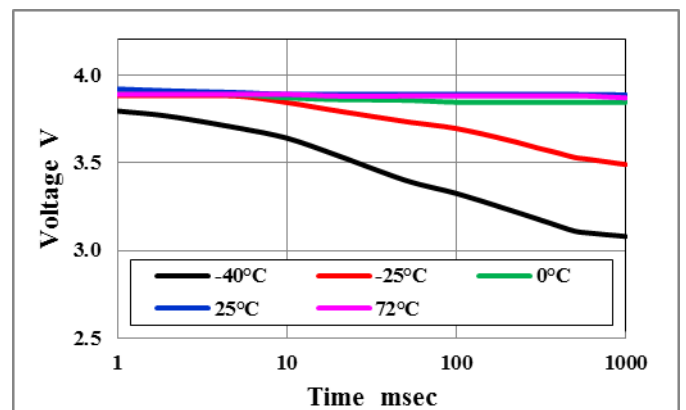
Pulse capability at Room Temperature



Discharge capability at several Temp., @ 1 A

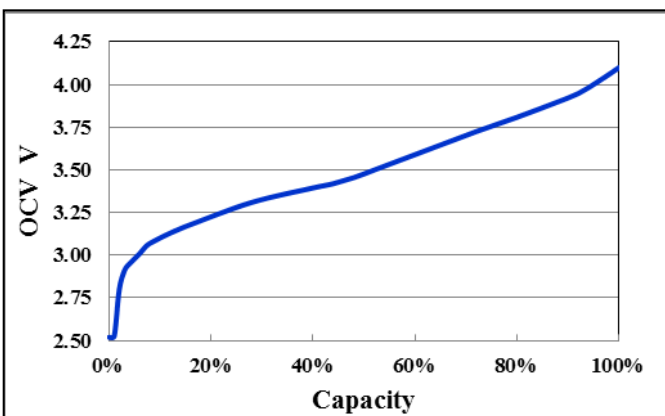


Pulse capability at several Temp., @ 2 A



Capacity vs. OCV

OCV measurements can provide a good estimation for the remaining capacity of the cell as shown below.



* When tested at RT at 5 mA to 2.5 V

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