

The TLM-1550HP is ideal for Military and Aerospace applications.

So Much Power, So Little Battery

High Power Lithium Model TLM-1550HP

Tadiran's new high voltage/high rate AA-sized lithium battery, the TLM-1550HP, packs a punch with 2Wh of energy, an open circuit voltage of 4.0 volt, and the ability to handle pulses of up to 15A, with 5A maximum continuous load at above 3.0V.

The TLM-1550HP is specifically designed for applications requiring high power, long life and extended storage. Typical applications include:

- Military & Aerospace systems
- Automatic External Defibrillators
- Portable Medical Devices
- Communications systems
- Telematics

Tadiran's TLM series of cells are also extremely safe, as its solvents are non-toxic and non-pressurized and its anode material is less reactive than that found in other lithium cells. The batteries have performed well in a variety of safety tests, including nail penetration, crush tests, high



temperature chambers, short circuit and charge tests. Two families , High Power and Medium Power are currently available in 3 different sizes.

High Power Series

					Temperature	Maximum Diameter		Dimen	Available Terminations (drawings)	
Data Sheet	No.	Voltage (V)	Capacity (mAh)	Pulse Current	Range (°C)			Height		
Silect		(*)	(IIIAII)	(A)		(mm)	(in)	(mm)	(in)	(arawings)
<u>TLM-</u> 1550HP	72- 1556- Ууууу	4	550	15	-40° to +85°	15.1	0.595	51	2.008	T TP PT2
<u>TLM-</u> 1530HP	72- 1536- ууууу	4	240	6.5	-40° to +85°	15.1	0.595	27.4	1.079	S T TP PT2
TLM- 1520HP	72- 1526- Ууууу	4	135	3.5	-40° to +85°	15.1	0.595	20	0.787	S T TP PT2

Medium Power Series

		Nominal Voltage (V)	Discharge Capacity (mAh)	Pulse Ran	Temperature Range (°C)	Maximum Dimensions				Available
Data Sheet	No.					Diameter		Height		Terminations (drawings)
Silect		(*)	(IIIAII)		(0)	(mm)	(in)	(mm)	(in)	(drawings)
<u>TLM-</u> 1550MF	72- 1557- Ууууу	4	800	15	-40° to +85°	15.1	0.595	51	2.008	S T TP PT2
TLM- 1530MP	72- 1537- yyyyy	4	340	5	-40° to +85°	15.1	0.595	27.4	1.079	<u>S T TP PT2</u>
TLM- 1520MP	72- 1527- yyyyy	4	200	2.5	-40° to +85°	15.1	0.595	20	0.787	<u>S T TP PT2</u>

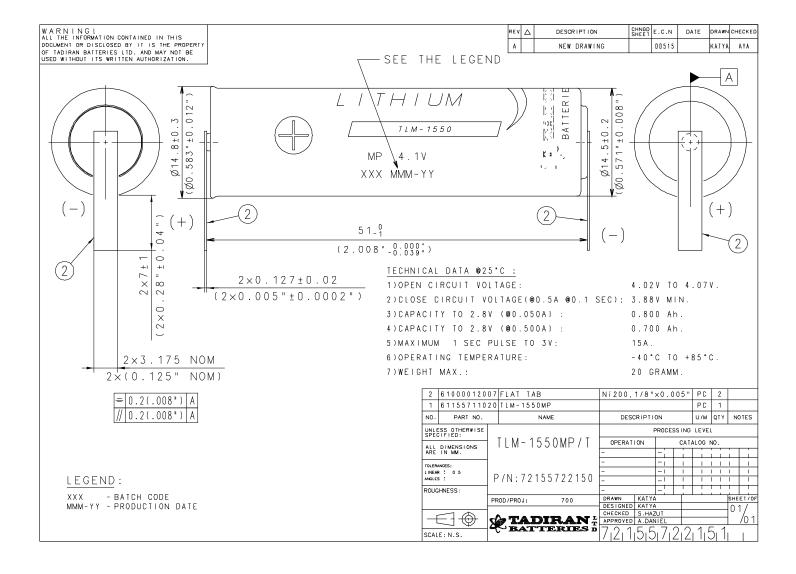
TERMINATION SUFFIX	/S	/T	/P	/TP	/PT	/PT2
ууууу	22000	22150	N/A	32000	N/A	35000

NOTES:

The standard termination codes are listed in the table above. Customized terminations are available upone request.









Tadiran High Power Lithium Organic Cell Model TLM-1550MP

1. Scope

This data sheet describes the mechanical design and performance of Tadiran high power lithium organic cell model TLM-1550MP.

2. Characteristics

2.1. Physical

2.1.1. Length: 51 -1 mm.

2.1.2. Diameter: $14.8 \pm 0.3 \text{ mm}$.

2.1.3. Weight: 20 gr. max.

2.2. Electrical

2.2.1. Open Circuit Voltage

(for batteries stored at RT for 1 year or less) 4.02 to 4.07 V

2.2.2. Closed Circuit Voltage (at 0.1 sec) at 0.5 A load 3.88 V minimum

2.2.3. Discharge

Discharge capacity at 50 mA @ RT to 2.8 V 800 mAh

Discharge capacity at 500 mA @ RT to 2.8 V 700 mAh

Maximum discharge current

Continuous to 2.8 V: 4 A

1 second pulse to 3 V: 15 A

2.3. Operating Temperature range: -40 °C to 85 °C

2.4. Accumulated Capacity Loss*:

1 -				
Storage Temperature	22 °C	55 °C	72 °C	85 °C
Storage Time [Y]				
1	2 %	4 %	7 %	TBD
5	5 %	15 %	28 %	N/A
10	7.5 %	22 %	N/A	N/A
15	10 %	29 %	N/A	N/A
20	12.5 %	N/A	N/A	N/A

• When tested at RT under 100 mA to 2.8 V

2.5. Cell impedance: Less than 100 mOhm @ 1 kHz at room temperature.

(ECN 6100539)