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**Lithium Batteries - Component**

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**TADIRAN BATTERIES LTD**

MH12193

34 RABIN BLVD

76950 KIRYAT EKRON, ISRAEL

Model No.	Primary Type <sup>[a]</sup>	Max Abnormal Charging Current mA	Max Abnormal Charging Voltage, V dc	Replacement <sup>[b],[c]</sup>
LL-902	Lithium thionyl chloride	15	12	Technician
TL-2100	Lithium thionyl chloride	50	12	Technician
TL-2100 XTRA	Lithium thionyl chloride	50	12	Technician
TL-2134 (#)	Lithium thionyl chloride (Coin)	20	12	Technician
TL-2135 (#)	Lithium thionyl chloride (Coin)	25	12	Technician
TL-2137	Lithium thionyl chloride	100	12	Technician
TL-2150	Lithium thionyl chloride	15	12	Technician
TL-2150 XTRA	Lithium thionyl chloride	15	12	Technician
TL-2155	Lithium thionyl chloride	20	12	Technician
TL-2174 (#)	Lithium thionyl chloride (Coin)	20	12	Technician
TL-2175 (#)	Lithium thionyl chloride (Coin)	25	12	Technician
TL-2176 (#)	Lithium thionyl chloride (Coin)	15	12	Technician
TL-2186 (#)	Lithium thionyl chloride (Coin)	15	12	Technician
TL-2200	Lithium thionyl chloride	100	12	Technician
TL-2200 XTRA	Lithium thionyl chloride	100	12	Technician
TL-2300	Lithium thionyl chloride	150	12	Technician
TL-2300XTRA	Lithium thionyl chloride	150	12	Technician
TL-2450 (#)	Lithium thionyl chloride (Coin)	10	12	Technician
TL-2902	Lithium thionyl chloride	15	12	Technician
TL-2903	Lithium thionyl chloride	15	12	Technician
TL-2920	Lithium thionyl chloride	15	12	Technician
TL-2930	Lithium thionyl chloride	15	12	Technician
TL-2940	Lithium thionyl chloride	150	12	Technician
TL-2955	Lithium thionyl chloride	20	12	Technician
TL-4902	Lithium thionyl chloride	15	12	Technician
TL-4903	Lithium thionyl chloride	15	12	Technician
TL-4920	Lithium thionyl chloride	25	12	Technician
TL-4930	Lithium thionyl chloride	50	12	Technician

<b>TL-4934 (#)</b>	Lithium thionyl chloride (Coin)	20	12	Technician
<b>TL-4935 (#)</b>	Lithium thionyl chloride (Coin)	25	12	Technician
<b>TL-4937</b>	Lithium thionyl chloride	100	12	Technician
<b>TL-4940</b>	Lithium thionyl chloride	150	12	Technician
<b>TL-4955</b>	Lithium thionyl chloride	20	12	Technician
<b>TL-4986 (#)</b>	Lithium thionyl chloride (Coin)	15	12	Technician
<b>TL-5009</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5019</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5042</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5101</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5104</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5105</b>	Lithium thionyl chloride	100	12	Technician
<b>TL-5106</b>	Lithium thionyl chloride	150	12	Technician
<b>TL-5134 (#)</b>	Lithium thionyl chloride (Coin)	20	12	Technician
<b>TL-5135 (#)</b>	Lithium thionyl chloride (Coin)	25	12	Technician
<b>TL-5137 XTRA</b>	Lithium thionyl chloride	100	12	Technician
<b>TL-5151</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5155</b>	Lithium thionyl chloride	20	12	Technician
<b>TL-5186 (#)</b>	Lithium thionyl chloride (Coin)	15	12	Technician
<b>TL-5207</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5209</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5241</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5242</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5252 (g)</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5274</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5276</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5277</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5281 (h)</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5282 (h)</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5292</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5315</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5347 (g)</b>	Lithium thionyl chloride	150	12	Technician
<b>TL-5407</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5610 (i)</b>	Lithium thionyl chloride	20	12	Technician
<b>TL-5901</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5902</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5903</b>	Lithium thionyl chloride	15	12	Technician
<b>TL-5920</b>	Lithium thionyl chloride	25	12	Technician
<b>TL-5930</b>	Lithium thionyl chloride	50	12	Technician
<b>TL-5937</b>	Lithium thionyl chloride	100	12	Technician
<b>TL-5940</b>	Lithium thionyl chloride	150	12	Technician

<b>TL-5955</b>	Lithium thionyl chloride	20	12	Technician
<b>TL-6902</b>	Lithium-sulfuryl chloride	25	12	Technician
<b>TL-6903</b>	Lithium-sulfuryl chloride	50	12	Technician
<b>TL-6920</b>	Lithium-sulfuryl chloride	15	12	Technician
<b>TL-6930</b>	Lithium-sulfuryl chloride	50	12	Technician
<b>TL-6937</b>	Lithium-sulfuryl chloride	50	12	Technician
<b>TL-6955</b>	Lithium-sulfuryl chloride	15	12	Technician
<b>TL-7902</b>	Lithium thionyl chloride (Cylindrical)	15	12	Technician
<b>TL-7903</b>	Lithium thionyl chloride (Cylindrical)	15	12	Technician
<b>TL-7920</b>	Lithium thionyl chloride (Cylindrical)	25	12	Technician
<b>TL-7930</b>	Lithium thionyl chloride (Cylindrical)	50	12	Technician
<b>TL-7937</b>	Lithium thionyl chloride (Cylindrical)	100	12	Technician
<b>TL-7955</b>	Lithium thionyl chloride (Cylindrical)	15	12	Technician
<b>TL-8902</b>	Lithium thionyl chloride (Cylindrical)	15	12	Technician
<b>TL-8903</b>	Lithium thionyl chloride (Cylindrical)	15	12	Technician
<b>TL-8920</b>	Lithium thionyl chloride (Cylindrical)	25	12	Technician
<b>TL-8930</b>	Lithium thionyl chloride (Cylindrical)	50	12	Technician
<b>TL-8937</b>	Lithium thionyl chloride (Cylindrical)	100	12	Technician
<b>TL-8955</b>	Lithium thionyl chloride (Cylindrical)	15	12	Technician
<b>TLH-2450 (#)</b>	Lithium thionyl chloride (Coin)	10	12	Technician
<b>TLH-4934 (#)</b>	Lithium thionyl chloride (Coin)	10	12	Technician
<b>TLH-4935 (#)</b>	Lithium thionyl chloride (Coin)	10	12	Technician
<b>TLH-4986 (#)</b>	Lithium thionyl chloride (Coin)	5	12	Technician
<b>TLH-5902</b>	Lithium thionyl chloride	15	12	Technician
<b>TLH-5903</b>	Lithium thionyl chloride	25	12	Technician
<b>TLH-5920</b>	Lithium thionyl chloride	25	12	Technician
<b>TLH-5930</b>	Lithium thionyl chloride	50	12	Technician
<b>TLH-5934</b>	Lithium thionyl chloride (Cylindrical)	10	12	Technician
<b>TLH-5935</b>	Lithium thionyl chloride (Cylindrical)	10	12	Technician
<b>TLH-5937</b>	Lithium thionyl chloride	100	12	Technician
<b>TLH-5955</b>	Lithium thionyl chloride	20	12	Technician
<b>TLL-2450 (#)</b>	Lithium thionyl chloride (Coin)	10	12	Technician
<b>TLL-4934 (#), TL-5934</b>	Lithium thionyl chloride (Coin)	10	12	Technician
<b>TLL-4935 (#), TL-</b>	Lithium thionyl chloride (Coin)	10	12	Technician

<b>5935</b>				
<b>TLL-4986 (#), TL-5986</b>	Lithium thionyl chloride (Coin)	5	12	Technician
<b>TLL-5902</b>	Lithium thionyl chloride	15	12	Technician
<b>TLL-5903</b>	Lithium thionyl chloride	50	12	Technician
<b>TLL-5920</b>	Lithium thionyl chloride	25	12	Technician
<b>TLL-5930</b>	Lithium thionyl chloride	50	12	Technician
<b>TLL-5937</b>	Lithium thionyl chloride	100	12	Technician
<b>TLL-5955</b>	Lithium thionyl chloride	25	12	Technician
<b>TLM-1520/HE</b>	Lithium thionyl chloride (Cylindrical)	25	12	Technician
<b>TLM-1520/HP</b>	Lithium/cobalt nickel oxide (Cylindrical)	100	12	Technician
<b>TLM-1530/HE</b>	Lithium thionyl chloride (Cylindrical)	50	12	Technician
<b>TLM-1530/HP</b>	Lithium/cobalt nickel oxide (Cylindrical)	100	12	Technician
<b>TLM-1550/HE</b>	Lithium thionyl chloride (Cylindrical)	100	12	Technician
<b>TLM-1550/HP</b>	Lithium/cobalt nickel oxide (Cylindrical)	100	12	Technician

<b>Model No.</b>	<b>Secondary Type<sup>[d]</sup></b>	<b>Max Charging Current (I<sub>c</sub>), mA</b>	<b>Max Charging Voltage, V dc<sup>[e]</sup></b>	<b>Test Compliance<sup>[f]</sup></b>
<b>HLC-1020</b>	Lithium ion (Cylindrical)	8	3.95	1
<b>HLC-1520</b>	Lithium ion (Cylindrical)	25	3.95	1
<b>HLC-1530</b>	Lithium ion (Cylindrical)	5050	3.95	3
<b>HLC-1550</b>	Lithium ion (Cylindrical)	100	3.95	1
<b>TLI-1020 (x)</b>	Lithium ion (Cylindrical)	8	4.1	1
<b>TLI-1520 (x)</b>	Lithium ion (Cylindrical)	25	4.1	1
<b>TLI-1530 (x)</b>	Lithium ion (Cylindrical)	50	4.1	1
<b>TLI-1550</b>	Lithium ion (Cylindrical)	100	4.10	1
<b>TLI-1550i</b>	Lithium ion (Cylindrical)	100	4.10	1

[a] These cells and batteries are not rechargeable. The circuit containing these cells or batteries is to contain a protective component that prevents charging. The circuitry is to include a current-limiting component intended to protect the cell or battery, in the event the protective component malfunctions, from a charging current in excess of the maximum abnormal charging current indicated.

[b] User - These primary cells and batteries are intended for use in applications subject to replacement by a user.

[c] Technician - These primary cells and batteries are intended for use in applications subject to replacement only by a trained service technician.

[d] These cells and batteries are rechargeable. The circuitry containing these cells or batteries is to contain protective components intended to protect the cells or batteries from currents in excess of the maximum charging current and voltage indicated.

[e] The Max Charging Voltage noted in the column is the maximum voltage employed during the abnormal charging test of the secondary lithium ion cell. However, the maximum recommended charging voltage for lithium ion cells is 4.2 V, unless indicated otherwise.

[f] Test Compliance - The cells comply with the tests in UL 1642 as noted:

- 1 - Complies with all single-cell tests
- 2 - Complies with all single-cell tests except the impact test
- 3 - Complies with all single-cell tests except the projectile test
- 4 - Complies with all single-cell tests except the crush test

- (#) - Optional suffix may be added to model number consisting of "/" followed by one or more letters.
  - (g) - Battery pack contains a diode and resistor. No additional protective components are required in the external circuit.
  - (h) - Battery pack contains a resistor. Only one charge preventing component, such as a diode is required in the external circuit.
  - (i) - This battery pack contains a diode. Only one current limiting component is required in the external circuit.
  - (x) - optional suffixes consisting of '/' followed by one or more letters and digits which represents different finishing types.
- XTRA - Model suffix XTRA denotes a slightly modified electrolyte formulation.

Marking: Company name or tradename "MH12193" , Recognized Component Mark,  on the cell or smallest shipping package containing the cell.

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