

# UN 38.3 Test Summary Report

Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, subsection 38.3.5

[a]  Cell  Battery  Product  
 **Tested Type Part #:** TLP-93121/B  
 **Same Type Part #:**

[b] **Manufacturer**  
Tadiran Batteries GmbH  
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[d] Unique report ID: 15Q-673

[e] Report date: 2004.11.01

[c] **Test Laboratory**  
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**Same Type Part Numbers # (all):** covers all the TLP-93121/B/xxxx part numbers with harness/cables. The Type can either be TLP- or SLP-.

[f] (i)  Li-ion  Li-metal.


(iv) **Description:** Primary (non-rechargeable) 7.4 V Lithium Thionyl Chloride (Li-SOCl<sub>2</sub>) hybrid battery, assembled from a group of 2 (two) "D" size cell and 1 (one) HLC-1550 cell in parallel connection and 2 groups of this in serial connection. Dangerous reverse current between the parallel D cells and HLC-1550 does not occur because of presence of parallel diode in each group. The TLP-93121/B battery may come with optional suffixes consisting of a "/" followed by one or more letters and a digit. These suffixes indicate different types of finishing to the battery, e.g. harness.. The battery may also start with the letters SLP-.  
Tadiran manufactures all cells/batteries under a quality management system as required under this regulation.

(ii) Mass: 460 g  
(iii)  Watt hour rating or  Lithium content: 1.72 Wh and 20 g.  
(v)  Cell  Battery  Product. Model number/Part number: TLP-96811/B


[g] List of Tests Conducted	Result (Pass / Fail / N.A.)	Test record reference
38.3.4.1 T.1: Altitude simulation	Pass	Summery page 2
38.3.4.2 T.2: Thermal test	Pass	Summery page 2
38.3.4.3 T.3: Vibration	Pass	Summery page 2
38.3.4.4 T.4: Shock	Pass	Summery page 2
38.3.4.5 T.5: External short circuit	Pass	Summery page 2
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	Summery page 2
38.3.4.7 T.7: Overcharge (N.A for Li-metal only)	N.A.	N.A.
38.3.4.8 T.8: Forced discharge (cell only test)	Pass	Summery page 2

[h] Battery assembly:  Not Applicable.  UN38.3.3 (f)  UN38.3.3 (g)

[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3. *sixth revised edition*

[j] Signatory A. Date: 2021.11.11  
Name: Marc Henn  
Title: Application Engineering Manager  
Signature.  




[j] Signatory B. Date: 2021.11.11  
Name: Olaf G. Lichtlein  
Title: General Manager  
Signature.  


**Important!** The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Tadiran and, should Tadiran consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.