

## UN38.3 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 Manual of Tests and Criteria, Part III, subsection 38.3.5

[a] ☐ Cell ☒ Battery ☐ Produkt  
☒ **Tested Type Part #:**  
 PA-L2454.R001  
☐ **Same Type Part #:** as listed below

[d] Unique report ID:  
 UN.PB.PA-L2454.A, UN38.3, Rev.6.1  
 [e] Date of test report:  
 2020-04-03

[b] **Manufacturer**  
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 21217 Seevetal  
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 T. +49 40 703 8888-0  
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[c] **Test Laboratory**  
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☐ Same Type Part Numbers # (all):

[f] (i) ☒ Lithium-ion ☐ Lithium-metal ☐ Cell ☒ Battery  
 [f] (ii) Mass: approx. 315 g  
 [f] (iii) ☒ Watt-hour rating: 30.4 Wh or ☐ Lithium content: g  
 Note: The watt-hours of the same part numbers may vary by +/- 20 percent from the above value according to UN38.3.2.2 (b).  
 [f] (v) Model number(s): PA-L2454.R001  
 [f] (iv) Physical description: Secondary (rechargeable) Hardcase-Pack with four cells in a serial configuration and protective device.  
 Nominal voltage: 14.4V, Nominal capacity: 2.25Ah typical  
 Used and UN38.3-tested cell type: Panasonic, UR-18650AY

Customer Part No.: U06-0197 Customer Spare Part No.: R06-0108

Our batteries/products are manufactured according to a Quality-Management-System.  
 For further information visit our website.

### [g] List of Tests Conducted

### Result (Pass / Fail / N.A.)

### Remark

38.3.4.1 Test T.1: Altitude simulation	Pass	
38.3.4.2 Test T.2: Thermal test	Pass	
38.3.4.3 Test T.3: Vibration	Pass	
38.3.4.4 Test T.4: Shock	Pass	
38.3.4.5 Test T.5: External short circuit	Pass	
38.3.4.6 Test T.6: Impact/Crush	N.A.	for cell testing only
38.3.4.7 Test T.7: Overcharge	Pass	
38.3.4.8 Test T.8: Forced discharge	N.A.	for cell testing only

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

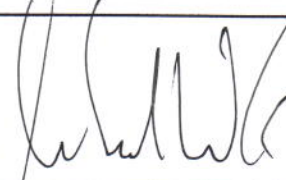
[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3, ST/SG/AC.10/11/Rev.6/Amend. 1

Important! The stated signatory affirms, 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 Fey Elektronik and, should Fey Elektronik consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.



[j] Signatory Date: 2020-04-03  
 Name: Michael Witte  
 Title: General Manager

Signature:



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