

## 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

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>[a] <input type="checkbox"/> Cell    <input checked="" type="checkbox"/> Battery    <input type="checkbox"/> Produkt</p> <p><input checked="" type="checkbox"/> <b>Tested Type Part #:</b><br/>PA-L1022.R021</p> <p><input type="checkbox"/> <b>Same Type Part #:</b> as listed below</p>                           | <p>[d] Unique report ID:<br/>UN.PB.PA-L1022.R021, UN38.3, Rev.7.1</p> <p>[e] Date of test report:<br/>2024-05-28</p>                                                                                                                                                                                                      |
| <p>[b] <b>Manufacturer</b><br/>Fey Elektronik GmbH<br/>Storchenweg 3<br/>21217 Seevetal<br/>Germany                                    <a href="mailto:info@feyelektronik.de">info@feyelektronik.de</a><br/>T. +49 40 703 8888-0                    <a href="http://www.feyelektronik.de">www.feyelektronik.de</a></p> | <p>[c] <b>Test Laboratory</b><br/>Fey Elektronik GmbH<br/>Storchenweg 3<br/>21217 Seevetal<br/>Germany                                    <a href="mailto:info@feyelektronik.de">info@feyelektronik.de</a><br/>T. +49 40 703 8888-0                    <a href="http://www.feyelektronik.de">www.feyelektronik.de</a></p> |

Same Type Part Numbers # (all):

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[f] (i)     Lithium-ion     Lithium-metal     Cell     Battery

[f] (ii)    Mass: approx.    1250 g

[f] (iii)     Watt-hour rating:    205.8 Wh    or     Lithium content:    g

[f] (v)    Model number(s):    PA-L1022.R021

[f] (iv)    Physical description:    Secondary (rechargeable) Hardcase-Pack with twenty-one cells in a seven serial, three parallel configuration and protective device.  
Nominal voltage: 25.2V, Nominal capacity: 8.7Ah typical  
Used and UN38.3-tested cell type: Panasonic, NCR18650TD

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.7/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: 2024-05-28 |
| Name:         | Michael Witte    |
| Title:        | General Manager  |
|               |                  |
| Signature:    |                  |

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