

UN 38.3 TEST REPORT SUMMARY

We herewith confirm that each battery of this type is proved to meet the requirements of applicable tests in the UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7, Part III, Sub-Section 38.3.

In the following, lithium battery test summary according to Sub-Section 38.3.5

- (a), (b) Manufacturer: KION Battery Systems GmbH
Zeche Gustav 1
63791 Karlstein am Main
Germany
Phone: +49 6188 – 9929-0
E-Mail: info@kion-batterysystems.com
Webpage: www.kion-batterysystems.com
- Customer: PEM Motion GmbH
Bohr 12
52072 Aachen
Germany
Phone: ++49 241 47 57 981 10
E-Mail: info@pem-motion.com
Webpage: www.pem-motion.com
- (c) Test laboratory: Batteryuniversity GmbH
Am Sportplatz 30
63791 Karlstein am Main
Germany
Phone: +49 6188 – 99410-0
Fax: +49 6188 – 99410-20
E-Mail: mail@bu-lab.eu
Webpage: www.bu-lab.eu
- (d) Report reference no.: BU-202100135-B2
- (e) Date of test report: February 15, 2022
- (f) Description of devices under test:
- | | |
|----------------------------|---|
| (i) Type: | Lithium ion batteries |
| (ii) Mass of battery: | 15.47 kg |
| (iii) Watt-hour rating: | 1.78 kWh |
| (iv) Physical description: | 7S148P INR21700 M50LT; rechargeable battery |
| (v) Model numbers: | Compact D1 (BG20.1) |
- (g) Performed tests:
- | | |
|-----------------------------|---------------|
| T.1 Altitude simulation: | Passed |
| T.2 Thermal test: | Passed |
| T.3 Vibration: | Passed |
| T.4 Shock: | Passed |
| T.5 External short circuit: | Passed |
| T.6 Impact/Crush: | Not performed |
| T.7 Overcharge: | Passed |
| T.8 Forced discharge: | Not performed |
- (h) Reference to assembled battery testing requirements: Not applicable
- (i) Applied standard: UN ST/SG/AC.10/11/Rev.7
Recommendations of the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Part III, section 38.3, Lithium metal and lithium ion batteries

(j) Signature:

February 15, 2022

Klaus Heck, Managing Director