BATTERY UNIVERSITY
Testlab Experts

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-20132-01-00

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.8, Part III, Sub-Section 38.3.

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

(a), (b) Manufacturer:	C. & E. Fein GmbH Hans-Fein-Str. 81 73529 Schwäbisch Gmünd-Bargau Germany	Phone: +49 (0)7173 – 183-0 Fax: +49 (0)7173 – 183-800 E-Mail: info@fein.de Webpage: www.fein.com
Customer:	C. & E. Fein GmbH Hans-Fein-Str. 81 73529 Schwäbisch Gmünd-Bargau Germany	Phone: +49 (0)7173 – 183-0 Fax: +49 (0)7173 – 183-800 E-Mail: info@fein.de Webpage: www.fein.com
(c) Test laboratory:	Batteryuniversity GmbH Am Sportplatz 30 63791 Karlstein am Main Germany	Phone: +49 (0)6188 – 99410-0 E-Mail: mail@bu-lab.eu Webpage: www.bu-lab-eu

(d) Report reference no.,	BU-201800079-1-B1	BU-201800079-0-B1
(e) Date of test report: and	August 22, 2018	August 22, 2018
(f) Description of devices under test:		
(i) Type:	Lithium-ion batteries	Lithium-ion batteries
(ii) Mass:	730 g	470 g
(iii) Watt-hour rating:	108 Wh	54 Wh
(iv) Physical description:	5S2P INR18650 30Q	5S1P INR18650 30Q
(v) Model numbers:	B18A.175.02	B18A.182.02

(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.8 Manual of Tests and Criteria, Part III, section 38.3, Lithium metal, lithium ion and sodium ion batteries

(j) Signature: August 5, 2025

A. Roth

Alexander Roth, Laboratory Manager

Note: This confirmation is valid only in connection with the report reference