

Lithium Ion Battery Test Summary

LITHIUM CELLS OR BATTERIES TEST SUMMARY IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

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Lithium Ion cells and Rothenberger Lithium-Ion-batteries Li-Power and LiHD have been successfully tested and comply with UN Model Regulation, Manual of Test and Criteria, Part III subsection 38.3

PERFORMED TESTS			RESULTS	
			Cells	Batteries
38.3.4.1	T1	Altitude Simulation	Pass	Pass
38.3.4.2	T2	Thermal Test	Pass	Pass
38.3.4.3	T3	Vibration	Pass	Pass
38.3.4.4	T4	Shock	Pass	Pass
38.3.4.5	T5	External Short Circuit	Pass	Pass
38.3.4.6	T6	Impact / Crush	Pass	Not applicable
38.3.4.7	T7	Overcharge	Not applicable	Pass
38.3.4.8	T8	Forced Discharge	Pass	Not applicable

The UN38.3 tests were performed at least by one of the following test houses and were tested to UN Manual Test and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

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Product Test Information - Cells

Model	Physical	Weight	Rating	Test report	
number	Description	[kg]	[Wh]	number	date
Samsung INR21700-40T	Li-ion cylindrical cell	0,067	14,4	SDI-UN-170306-01	2017-03-06
Samsung INR18650-20R	Li-ion cylindrical cell	0,045	7,2	SDI-UN-150630-03	2015-06-30
Tenpower 2000 ICR-18650	Li-Ion cylindrical cell	0,041	7,4	NO.4789079122-5	2019-07-24

Product Test Information - Batteries

Model	Physical Description	Weight	Rating	Test report		
number		[kg]	[Wh]	number	date	regulation
Rothenberger Nr. 1000001652 CAS 637596000 Base 321001670	Li-Ion, 18 V – 2,0 Ah, 5S1P, Li-Power	0,383	36,0	HU213J99 004	2021-05-21	UN3480 UN3481
Rothenberger Nr. 1000001653 CAS 637591000 Base 321001680	Li-Ion, 18 V – 4,0 Ah 5S2P, Li-Power	0,685	72,0	HU2177MB 001 HU219AFS 001 HU210YG9 001 HU21A74Q 001	2021-05-25 2021-05-21 2021-08-06 2021-09-09	UN3480 UN3481
Rothenberger Nr. 1000002548 CAS 637305000 Base 321001190	Li-Ion, 18V - 4,0 Ah 5S1P, LiHD	0,584	72,0	28242835 003	2020-12-18	UN3480 UN3481
Rothenberger Nr. 1000002549 CAS 637303000 Base 321001170	Li-Ion, 18V – 8,0 Ah 5S2P, LiHD	0,977	144,0	28246520 001	2018-09-17	UN3480 UN3481

Signature of responsible person of the Company

Herstellerunterschrift

Manufacturer/ authorized representative signature



Thomas Bamberger
Managing Director



Berndhard Schupp
Product & Market Compliance