



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

Product Manufacturer: CEMO GmbH
In den Backenländern 5
D-71384 Weinstadt
Germany

Telephone: +49 (0) 7151 9636 0
Email: kontakt@cemo.de
Web: www.cemo.com

Lithium Ion cells and Cemo Lithium-Ion-batteries Li-Power, LiHD, and CAS Li-Ion 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.

TÜV Rheinland InterCert Kft. Termék üzletág Villamos laboratórium Beke u. 41-43 H-1135 Budapest, Hungary Telephone: +36-1-461-1100 E-Mail: tuv@hu.tuv.com Web: www.tuv.hu	Samsung SDI Safety Center 467, Beonyeong-ro Seobuk-gu, Cheonan-si Chungcheongnam-do, Korea Telephone: +82-41-560-3114 E-Mail: sdimaster@samsung.com Web: www.samsungsdi.com
---	--

Product Test Information - Cells

Model	Physical Description	Weight	Rating	Test report	
		[kg]	[Wh]	number	date
INR-21700	Li-ion cylindrical cell	0,072	18,0	SDI-UN-192426-03	2019-04-19
INR-21700	Li-ion cylindrical cell	0,067	14,4	SDI-UN-170306-01	2017-03-06

Product Test Information – Batteries 18V

Batteries are exchangeable and can be used in all 18 V products

Model number	Physical Description	Weight	Rating	SoC	Test report		
		[kg]	[Wh]	[%]	number	date	regulation
CEMO 11388 637168000 321000980	Li-Ion 18 V - 8,0 Ah 5S2P	0,977	144,0	> 20 < 30	28246520 001	2018-09-17	UN 3480 UN 3481
CEMO 11387 637154000 321000480	Li-Ion 18 V – 4,0 Ah 5S2P	0,648	72,0	> 20 < 30	28248081 001 S 82/2017/1	2018-11-09 2017-12-17	UN 3480 UN 3481
CEMO 11386 637152000 321000550	Li-Ion 18 V – 2,0 Ah 5S1P	0,383	36,0	> 20 < 30	28251003 001 N° S 80/2017/1	2019-09-27 2017-12-20	UN 3480 UN 3481

Signature of responsible person of the Company

ppa. Bernhard Schmid
Head of Product Management and Development