

## 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:     Birchmeier Sprühtechnik AG  
   Im Stetterfeld 1  
   CH-5608 Stetten  
   Switzerland

Telephone:                         +41 (0)56 485 81 81  
 Email:                                 [info@birchmeier.com](mailto:info@birchmeier.com)  
 Web:                                    <https://www.birchmeier.com>

Lithium Ion cells and Birchmeier 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.

TÜV Rheinland InterCert Kft. Termék üzletág Villamos laboratórium Beke u. 41-43 H-1135 Budapest, Hungary  Telephone: +36-1-461-1100 E-Mail: <a href="mailto:tuv@hu.tuv.com">tuv@hu.tuv.com</a> Web: <a href="http://www.tuv.hu">www.tuv.hu</a>	Samsung SDI Safety Center 467, Beonyeong-ro Seobuk-gu, Cheonan-si Chungcheongnam-do, Korea  Telephone: +82-41-560-3114 E-Mail: <a href="mailto:sdimaster@samsung.com">sdimaster@samsung.com</a> Web: <a href="http://www.samsungsdi.com">www.samsungsdi.com</a>
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#### Product Test Information - Cells

Model number	Physical Description	Weight	Rating	Test report	
		[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
Samsung INR18650-25R	Li-ion cylindrical cell	0,045	9,0	SDI-UN-170331-02	2017-03-31

**Product Test Information - Batteries**

<b>Model</b>	<b>Physical Description</b>	<b>Weight</b>	<b>Rating</b>	<b>Test report</b>	
number		[kg]	[Wh]	number	date
Birchmeier Art.-Nr. 12071401 CAS 6370270000 321001210	Li-Ion, 18 V – 4,0 Ah 5S2P, Li-Power	0,648	72,0	28248081 001	2018-11-09
Birchmeier Art.-Nr. 12070301 637026000 Base 321001200	Li-Ion, 18 V – 2,0 Ah 5S1P, Li-Power	0,393	36,0	282251003 001	2019-09-27
Birchmeier Art.-Nr. 12072501 637339000 Base 321001220	Li-Ion, 18 V – 5,2 Ah 5S2P, Li-Power	0,670	93,6	28247087 001	2019-02-20
Birchmeier Art.-Nr. 12073601 637029000 Base 321001170	Li-Ion, 18V – 8,0 Ah 5S2P, (LiHD)	0,976	144,0	28246520 001	2017-12-05

**Signature of responsible person of the Company**
