

From
Robert
Bosch
GmbH**TEST SUMMARY**LITHIUM CELLS OR BATTERIES
TEST SUMMARY IN ACCORDANCE WITH
SUB-SECTION 38.3 OF UN MANUAL OF TESTS
AND CRITERIAIssue/Amendment
1.1Our Reference
AE-EB/ENCPage
1/6Date
10-Dec-19**1 Product Manufacturer**

Name	Robert Bosch GmbH Bosch eBike Systems
Address	Gerhard-Kindler-Str. 3 72770 Reutlingen Germany
Telephone	+49 180 730 3003
Email	contact@bosch-ebike.de
Website	www.bosch-ebike.com

2 Description

Cell / Battery used in	Display
Cell / Battery type	Lithium ion battery / Lithium ion Polymer battery
UN classification	UN 3481
Proper shipping name	Lithium ion batteries contained in equipment

The products listed below have been successfully tested and comply with UN Model Regulation, Manual of Tests and Criteria, Part III sub-section 38.3.

PERFORMED TESTS		RESULTS
38.3.4.1	T1 Altitude Simulation	Passed
38.3.4.2	T2 Thermal Test	Passed
38.3.4.3	T3 Vibration	Passed
38.3.4.4	T4 Shock	Passed
38.3.4.5	T5 External Short Circuit	Passed
38.3.4.6	T6 Impact / Crush	Passed
38.3.4.7	T7 Overcharge	Passed
8.3.4.8	T8 Forced Discharge	Passed

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(Note that tests T6 and T8 are not applicable to batteries)

Reference to assembled battery testing requirements (38.3.3 (f), 38.3.3 (g)):

N/A

3 Test houses

The UN 38.3 tests were performed by one of the following test houses and were tested to UN Manual of Tests and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

Test house	Address and telephone	Website	Email
Shenzen TCT Testing Technology Co., Ltd	1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China +86-755-27673339	www.tct-lab.com	info@tct-lab.com
Shenzen SEM. Test Technology Co., Ltd	1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian'er Road, Bao'an District, Shenzhen, Guangdong, China +86-755-33663308	www.semtest.com.cn	admin@semtest.com.cn
Vkan Certification & Testing Co., Ltd.	No. 3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou P.R. China +86-20-32293888	www.cvc.org.cn	office@cvc.org.cn
Shenzhen Beihang	Room B201, The Complex Building of Virtual University Park, No.2,	www.hc-stc.cn	cs@hc-stc.net

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Test house	Address and telephone	Website	Email
Testing Co., Ltd	Yuxing 3 rd Road, South Zone of Technology Park, Yuehai Street, Nanshan Distric, Shenzhen, Guangdong China		
Shanghai Research Institute of Chemical Industry testing Co., Ltd	West entrance, No.345 East Yun Ling Road, Shanghai, Postcode : 200062	www.ghs.cn	Mr. Wang 021-52815377-0723 E-mail: wyorama@gmail.com Mr. Xu 021-52815377-1737 E-mail: xutingmsds@gmail.com Mr. Yu 021-52815377-0757 E-mail: binhuyu@gmail.com
Waltek Services (Shenzhen) Co., Ltd	1/F, Fukangtai Building, West Baima Rd, Songgang Street, Baoan District, Shenzhen, Guangdong, China Tel : +86-755-8355 1033 Fax : +86-755-8355 2400	www.waltek.com.cn	E-mail : info@waltek.com.cn

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10-Dec-19**4 Product Test Information**

Model number	Physical description	Battery weight [g]	Wh rating [Wh]	Test report number	Test report date	Edition of UN Manual used
1270020903 1270020906 1270020909	Intuvia	5.0	0.88 0.925	STRD1702043S TCT181225B038	23-02-2017 27-12-2018	Rev. 6 Rev. 6
1270020907 1270020915	Nyon	13.0	2.7	MDW-AVG-1801	01-09-2018	Rev.6
1270016821	Kiox	5.0	0.85	TCT181225B039	27-12-2018	Rev. 6
0275008937	SmartphoneHub	6.0	1.11	RZUN2019-1851	29-04-2019	Rev. 6 A1
1270016761 1270016762	Cobi.Bike Hub	5.1	1.11	RSZBHST160718621	29-07-2016	Rev. 5 A2
1270016743	Cobi.Bike Powerbank 2900mAh	130.0	20.88	RSZBHST160718623	17-08-2016	Rev. 5 A2
1270016744	Cobi.Bike Powerbank 3500mAh	130.0	25.2	WTS17S1299531-1S	03-06-2018	Rev. 6
0275008900 0275008902	Cobi.Bike Rear light	9.0	2.775	RSZBHST160726651	08-10-2016	Rev. 5 A2



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5 Additional supplier information

Every Bosch eBike display is in compliance with the transport regulations (ADR SP 188 / IMDG Code SP 188 / air transport, ICAO TI/IATA DGR 3.9.2.6.1).

Each cell and battery type is manufactured in strict accordance to a quality assurance system. The quality assurance system is regularly audited.

6 Authorized signature

Dr. Martin Holzmann
Dr. Martin Holzmann
Vice President
Battery Systems and Connected Devices
Bosch eBike Systems

Name, Title

Name, Title

DR. TIMO WEIS, DIRECTOR



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Revision History

Issue	Date	Editor	Description of amendment
1.0	10/12/19	Peltola	Document created