

LITHIUM BATTERIES TEST SUMMARY

IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	Product Manufacturer	Robert Bosch Power Tools GmbH Max-Lang-Straße 40-46 70771 Leinfelden-Echterdingen Germany +49-711-400-40990 kontakt@bosch.de www.bosch-pt.com
2	Model	Bosch Battery Pack GBA 10.8V / 12V
3	Voltage rating	10.8V / 12V
4	Ah rating	1.3 Ah / 1.5Ah / 2.0Ah / 2.5Ah 3.0Ah / 4.0Ah / 6.0Ah
5	Wh rating	14,0Wh / 16,2Wh / 21,6Wh / 27,0Wh / 32,4Wh / 43,2Wh / 64,8Wh

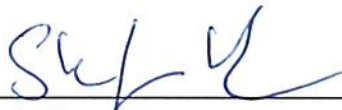
This model of Lithium ion batteries have been successfully tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3

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
38.3.4.7 T7	Overcharge	Passed

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

Revision Date: 12.11.2021

Revision Number: 7.0



Dr. Stefan Ruebenacke
 Director (PT-BI/PXS1)
 Cordless Systems Batteries and Chargers



Dr. Patrick Roeder
 Engineering (PT-BI/PXS1)
 Cordless Systems Batteries and Chargers

The UN 38.3 tests were performed 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.

<p>Robert Bosch Power Tools GmbH PT/EST Max-Lang Str. 40-46 70771 Leinfelden-Echterdingen Germany +49 (0)711-400-40990 kontakt@bosch.de www.bosch-pt.com</p>	<p>Tüv Süd PSB Pte. Ltd No.1 Science Park Drive Singapore 118221 Singapore +65 6427 4700 info.sg@tuvsud.com www.tuev-sued.de/company/locations/asia</p>
<p>SGS Germany GmbH Hofmannstr. 50 81379 München Germany +49 (0) 89 1250 406 4513 sgs.germany@sgs.com www.sgsgroup.de</p>	<p>SLG Prüf und Zertifizierungs GmbH Burgstädter Str. 20 09232 Hartmannsdorf Germany +49 (0) 3722 73230 service@slg.de.com www.slg.de.com</p>
<p>Dekra Certification B.V. Meander 1051 6825 MJ Arnhem The Netherlands +31 88 968 3000 product.certification@dekra.com www.dekra-product-safety.com</p>	<p>Dynamis Batterien GmbH Brühlstr. 15 78465 Dettingen / Konstanz Germany +049 (0) 7533 936690 info@dynamis-batterien.de www.dynamis-batterien.de</p>
<p>Tüv Rheinland InterCert Kft. Vaci ut 48/A-B 1132 Budapest Hungary +36 1461 1100 tuv@hu.tuv.com www.tuv.hu</p>	<p>SGS Malaysia Sdn. Bhd. PLO 581, Jalan MIEL 2, Kawasan MIEL Pasir Gudang Fasa 4 Pasir Gudang, Johor, 81700 Malaysia +6(07) 2511 684 sgs.malaysia@sgs.com www.sgs.com</p>

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

Model numbers	Physical Description	Battery weight (kg)	Wh rating	Test report number	Test report date	Applicable UN Numbers acc. to UN Model Regulations	Delivered at max. 30% State of Charge
GBA 10.8V / 12V 1.3 Ah	Detachable drop in lithium-ion accumulator	0,165 0,165	14,0 Wh	OXI 10V8 088 MxP UN_Tests.pdf UN_T1-T5 and T7_OXI_10V8_1Ah3_SCM_SDI13L.pdf	01.04.2011 03.08.2011	UN3480/ UN3481	yes
GBA 10.8V / 12V 1.5 Ah	Detachable drop in lithium-ion accumulator	0.173 0.170 0.175	16,2 Wh	7191186696-EEC18 OXI_10V8_SDI096_UN_T1-T5 und T7.pdf OXI 10,8V L G2 Sanyo W2 128_PgP_UN_Test_Rev5.pdf 7191118954-EEC15	13.07.2018 10.03.2010 02.08.2012 12.08.2015	UN3480/ UN3481	Yes
GBA 10.8V / 12V 2.0 Ah B808 B812-03 B12V20- 01 B815-01 B814-01 BAT414	Detachable drop in lithium-ion accumulator	0.182 0.175 0.180 0.175 0.176 0.183 0.178	21,6 Wh	7191138519 - EEC16 10.8V 2Ah SCM (RX135)_Test Report.pdf 7191121395-EEC15 10.8V 2Ah (20RM)_Test Report.pdf 7191110841-EEC15-01_OXI 10.8V (Rx135)_Test Report.pdf OXI 10V8 G3 Sanyo RX 126_PgP_UN_Rev5.pdf G0JR0001.pdf 7191178520 - EEC18 10.8V 2Ah Test Report_LG HD2.pdf TR 28246751 001 Bosch GBA 12V 2,0Ah.pdf	05.07.2016 28.09.2015 08.04.2015 02.08.2012 04.06.2013 05.03.2018 10.10.2018	UN3480/ UN3481	Yes
GBA 10.8V / 12V 2.5 Ah	Detachable drop in lithium-ion accumulator	0.420 0.182	27,0 Wh	UN_015_026 7191095976-EEC14	29.07.2015 05.09.2014	UN3480/ UN3481	Yes
GBA 10.8V / 12V 3.0 Ah GBA12V 30 B12V30- 01 B816-01	Detachable drop in lithium-ion accumulator	0.186 0.188 0.185 0.188	32,4 Wh	7191145990 - EEC16 7191179538 - EEC18 CPSFTY/00011/21 CPSFTY/00022/21	28.09.2016 27.04.2018 22.04.2021 20.10.2021	UN3480/ UN3481	Yes
GBA 10.8V / 12V 4.0 Ah	Detachable drop in lithium-ion accumulator	0.369 0.370 0.379 0.376	43,2 Wh	1020-13-MM-13-PP001 G0Y40001 7191176907 - EEC18 7191197214 - EEC18	26.03.2013 12.06.2013 15.01.2018 28.11.2018	UN3480/ UN3481	Yes
GBA 10.8V / 12V 6.0 Ah GBA12V 60	Detachable drop in lithium-ion accumulator	0.384 0.389 0.385 0.389	64,8 Wh	7191145996 - EEC16 CRSSFTY/00003/20 CPSFTY/00012/21 CPSFTY/00027/21	28.09.2016 30.06.2020 22.04.2021 20.10.2021	UN3480/ UN3481	Yes

All lithium batteries and cells shown in before-mentioned table were designed and manufactured in accordance with Section 2.9.4 of the UN Recommendations on the Transport of Dangerous Goods.