

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.)

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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.

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|--|--|
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| SGS Germany GmbH Hofmannstr. 50 81379 München Germany +49 (0) 89 1250 406 4513 sgs.germany@sgs.com www.sgsgroup.de | SLG Prüf und Zertifizierungs GmbH Burgstädter Str. 20 09232 Hartmannsdorf Germany +49 (0) 3722 73230 service@slg.de.com www.slg.de.com |
| Dekra Certification B.V. Meander 1051 6825 MJ Arnhem The Netherlands +31 88 968 3000 product.certification@dekra.com www.dekra-product-safety.com | Dynamis Batterien GmbH Brühlstr. 15 78465 Dettingen / Konstanz Germany +049 (0) 7533 936690 info@dynamis-batterien.de www.dynamis-batterien.de |
| Tüv Rheinland InterCert Kft. Vaci ut 48/A-B 1132 Budapest Hungary +36 1461 1100 tuv@hu.tuv.com www.tuv.hu | 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 |

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 0.174 | 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 0.179 0.180 0.176 | 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 CPSFTY/00029/21 TR HU2238A8 001 CPSFTY/00010/22 | 05.07.2016 28.09.2015 08.04.2015 02.08.2012 04.06.2013 05.03.2018 10.10.2018 20.10.2021 12.05.2022 08.04.2022 | 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 0.191 | 32,4 Wh | 7191145990 - EEC16 7191179538 - EEC18 CPSFTY/00011/21 CPSFTY/00022/21 CPSFTY/00023/22 | 28.09.2016 27.04.2018 22.04.2021 20.10.2021 13.06.2022 | 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.