

## 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<br>Max-Lang-Straße 40-46<br>70771 Leinfelden-Echterdingen<br>Germany<br>+49-711-400-40990<br>kontakt@bosch.de<br>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<br>3.0Ah / 4.0Ah / 6.0Ah                                                                                                         |
| 5 | Wh rating            | 14.0Wh / 16.2Wh / 21.6Wh / 27.0Wh /<br>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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i.V.

Andreas Schneider  
Senior Vice President Engineering (PT-GT/NE)  
Global Tools

i.V.

Matthias Bartsch  
Director (PT-GT/ENC)  
Engineering 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.

|                                                                                                                                                                            |                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Robert Bosch Power Tools GmbH<br>PT/EST<br>Max-Lang Str. 40-46<br>70771 Leinfelden-Echterdingen<br>Germany<br>+49 (0)711-400-40990<br>kontakt@bosch.de<br>www.bosch-pt.com | Tüv Süd PSB Pte. Ltd<br>No.1 Science Park Drive<br>Singapore 118221<br>Singapore<br>+65 6427 4700<br>info.sg@tuvsud.com<br>www.tuev-sued.de/company/locations/asia                       |
| SGS Germany GmbH<br>Hofmannstr. 50<br>81379 München<br>Germany<br>+49 (0) 89 1250 406 4513<br>sgs.germany@sgs.com<br>www.sgsgroup.de                                       | SLG Prüf und Zertifizierungs GmbH<br>Burgstädter Str. 20<br>09232 Hartmannsdorf<br>Germany<br>+49 (0 ) 3722 73230<br>service@slg.de.com<br>www.slg.de.com                                |
| Dekra Certification B.V.<br>Meander 1051<br>6825 MJ Arnhem<br>The Netherlands<br>+31 88 968 3000<br>product.certification@dekra.com<br>www.dekra-product-safety.com        | Dynamis Batterien GmbH<br>Brühlstr. 15<br>78465 Dettingen / Konstanz<br>Germany<br>+049 (0) 7533 936690<br>info@dynamis-batterien.de<br>www.dynamis-batterien.de                         |
| Tüv Rheinland InterCert Kft.<br>Váci ut 48/A-B<br>1132 Budapest<br>Hungary<br>+36 1461 1100<br>tuv@hu.tuv.com<br>www.tuv.hu                                                | SGS Malaysia Sdn. Bhd.<br>PLO 581, Jalan MIEL 2, Kawasan MIEL Pasir<br>Gudang Fasa 4<br>Pasir Gudang, Johor, 81700<br>Malaysia<br>+6(07) 2511 684<br>sgs.malaysia@sgs.com<br>www.sgs.com |
| Dekra Certification B.V.<br>Meander 1051<br>6825 MJ Arnhem<br>The Netherlands<br>+31 88 968 3000<br>product.certification@dekra.com<br>www.dekra-product-safety.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<br>0.165                                                                                                                                                        | 14.0 Wh   | OXI 10V8 088 MxP UN_Tests.pdf<br>UN_T1-T5 and<br>T7_OXI_10V8_1Ah3_SCM_SDI13L.pdf                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01.04.2011<br>03.08.2011                                                                                                                                                                                                                                   | UN3480/<br>UN3481                                  | yes                                   |
| GBA 10.8V / 12V 1.5 Ah                                                                 | Detachable drop in lithium-ion accumulator | 0.173<br>0.170<br>0.175<br><br>0.174                                                                                                                                  | 16.2 Wh   | 7191186696-EEC18<br>OXI_10V8_SDI096_UN_T1-T5 und T7.pdf<br>OXI 10,8V L G2 Sanyo W2<br>128_PgP_UN_Test_Rev5.pdf<br>7191118954-EEC15                                                                                                                                                                                                                                                                                                                                                                               | 13.07.2018<br>10.03.2010<br>02.08.2012<br><br>12.08.2015                                                                                                                                                                                                   | UN3480/<br>UN3481                                  | Yes                                   |
| GBA 10.8V / 12V 2.0 Ah<br>B808<br>B812-03<br>B12V20-01<br>B815-01<br>B814-01<br>BAT414 | Detachable drop in lithium-ion accumulator | 0.182<br><br>0.175<br><br>0.180<br><br>0.175<br>0.176<br>0.183<br><br>0.178<br>0.179<br>0.180<br>0.176<br>0.180<br>0.183<br>0.180<br>0.183<br>0.182<br>0.182<br>0.177 | 21.6 Wh   | 7191138519 - EEC16 10.8V 2Ah SCM (RX135)_Test Report.pdf<br>7191121395-EEC15 10.8V 2Ah (20RM)_Test Report.pdf<br>7191110841-EEC15-01_OXI 10.8V (Rx135)_ Test Report.pdf<br>OXI 10V8 G3 Sanyo RX 126_PgP UN_Rev5.pdf<br>G0JR0001.pdf<br>7191178520 - EEC18 10.8V 2Ah Test Report_LG HD2.pdf<br>TR 28246751 001 Bosch GBA 12V 2,0Ah.pdf<br>CPSFTY/00029/21<br>TR HU2238A8 001<br>CPSFTY/00010/22<br>HU2238A8 002<br>CPSFTY/00018/23<br>HU2238A8 003<br>CPSFTY/00012/24<br>HU24IVAV 001<br>2296585.60<br>2300463.60 | 05.07.2016<br><br>28.09.2015<br><br>08.04.2015<br><br>02.08.2012<br>04.06.2013<br>05.03.2018<br><br>10.10.2018<br>20.10.2021<br>12.05.2022<br>08.04.2022<br>09.12.2022<br>18.08.2023<br>25.08.2023<br>29.04.2024<br>22.02.2024<br>24.03.2025<br>28.07.2025 | UN3480/<br>UN3481                                  | Yes                                   |
| GBA 10.8V / 12V 2.5 Ah                                                                 | Detachable drop in lithium-ion accumulator | 0.420<br>0.182                                                                                                                                                        | 27.0 Wh   | UN_015_026<br>7191095976-EEC14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 29.07.2015<br>05.09.2014                                                                                                                                                                                                                                   | UN3480/<br>UN3481                                  | Yes                                   |
| GBA 10.8V / 12V 3.0 Ah<br>GBA12V 30<br>B12V30-01<br>B816-01                            | Detachable drop in lithium-ion accumulator | 0.186<br>0.188<br>0.185<br>0.188<br>0.191<br>0.192                                                                                                                    | 32.4 Wh   | 7191145990 - EEC16<br>7191179538 - EEC18<br>CPSFTY/00011/21<br>CPSFTY/00022/21<br>CPSFTY/00023/22<br>CPSFTY/00114/24                                                                                                                                                                                                                                                                                                                                                                                             | 28.09.2016<br>27.04.2018<br>22.04.2021<br>20.10.2021<br>13.06.2022<br>05.02.2025                                                                                                                                                                           | UN3480/<br>UN3481                                  | Yes                                   |



|                                                 |                                                     |                                           |            |                                                                                                |                                                                    |                   |     |
|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------|------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------|-----|
| GBA<br>10.8V /<br>12V 4.0<br>Ah                 | Detachable<br>drop in<br>lithium-ion<br>accumulator | 0.369<br>0.370<br>0.379<br>0.376<br>0.367 | 43.2<br>Wh | 1020-13-MM-13-PP001<br>G0Y40001<br>7191176907 - EEC18<br>7191197214 - EEC18<br>CPSFTY/00064/24 | 26.03.2013<br>12.06.2013<br>15.01.2018<br>28.11.2018<br>11.09.2024 | UN3480/<br>UN3481 | Yes |
| GBA<br>10.8V /<br>12V 6.0<br>Ah<br>GBA12V<br>60 | Detachable<br>drop in<br>lithium-ion<br>accumulator | 0.384<br>0.389<br>0.385<br>0.389          | 64.8<br>Wh | 7191145996 - EEC16<br>CRSSFTY/00003/20<br>CPSFTY/00012/21<br>CPSFTY/00027/21                   | 28.09.2016<br>30.06.2020<br>22.04.2021<br>20.10.2021               | UN3480/<br>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.