

## 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
2	Model	Bosch Battery Pack PBA 18V
3	Voltage rating	18V
4	Ah rating	1.3 Ah / 1.5Ah / 2.0Ah / 2.5Ah 3.0Ah / 4.0Ah / 5.0Ah / 6.0Ah
5	Wh rating	23.4Wh / 27.0 Wh / 36.0 Wh / 45.0 Wh 54.0 Wh 72.0 Wh / 90.0 Wh / 108.0Wh

This model of Lithium ion batteries have been succesfully 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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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 Number s acc. to UN Model Regulations	Delivered at max. 30% State of Charge
PBA 18V 1.3 Ah	Detachable slide in lithium-ion accumulator	0,334 0,330	23.4	MT0019716 UN_T1-T5 and T7_Skil_Pioneer_18V_1Ah3_G1_SD13P_Axeon	05.02.2010 01.12.2010	UN3480/ UN3481	yes
PBA 18V 1.5 Ah	Detachable slide in lithium-ion accumulator	0,343 0,330 0,350 0,350 0,342 0,360 0,360 0,365 0,342	27.0	MT0019770 18VWOLVES_G2_CW16_2010_UN_T1-T5 und T7 Wolves_18V_G2_Sanyo_W2_McP_UN_Rev5 MT0038731 7191200827 - EEC18 28224222002 28224222002 28252538 001 7191232329-EEC20	19.01.2010 07.05.2010 02.08.2012 03.03.2011 14.01.2019 29.03.2017 29.03.2017 07.04.2020 15.04.2020	UN3480/ UN3481	yes
PBA 18V 2.0 Ah	Detachable slide in lithium-ion accumulator	0,360 0,350 0,353 0,353	36.0	UN_T1-T5 T7_Wolves 18V PP5 SampleB.pdf TR 28229046 004 Wolves 18V with bosc overcharge FINAL signed.pdf HU21FOSK 001 HU21FOSK 002	26.07.2013 29.11.2016 07.02.2022 07.02.2022	UN3480/ UN3481	yes

		0,380		HU21FOSK 003	10.04.2022		
PBA 18V 2.5 Ah	Detachable slide in lithium-ion accumulator	0,360	45.0	28226658001	27.03.2015	UN3480/ UN3481	yes
		0,362		28226658005	02.08.2016		
		0,362		28226658006	10.12.2020		
		0,362		HU215B2B 001	07.12.2021		
PBA 18V 3.0 Ah	Detachable slide in lithium-ion accumulator	0,363	54.0	28239766001	10.07.2017	UN3480/ UN3481	yes
		0,360		28252539001	07.04.2020		
		0,362		HU21TU56 001	10.08.2021		
		0,362		HU21TU56 002	07.02.2022		
		0,362		HU21TU56 002	07.07.2022		
PBA 18V 4.0 Ah	Detachable slide in lithium-ion accumulator	0,640	72.0	28237202001	29.03.2017	UN3480/ UN3481	yes
		0,575		28252403001	19.03.2020		
		0,630		HU21ZXY3 001	24.08.2021		
		0,575		HU21KAZX 001	24.11.2021		
		0,575		HU21KAZX 002	09.12.2021		
		0,670		HU22SXUN 001	10.06.2022		
0,575	HU22SXUN 002	19.09.2022					
PBA 18V 5.0 Ah	Detachable slide in lithium-ion accumulator	0,669	90.0	28248162002	26.03.2019	UN3480/ UN3481	yes
		0,668		HU22PXJ7 001	25.01.2022		
		0,650		HU225L1H 001	10.06.2022		
		0,668		HU225L1H 002	26.09.2022		
PBA 18V 6.0 Ah	Detachable slide in lithium-ion accumulator	0,668	108.0	28238953001	06.06.2017	UN3480/ UN3481	yes
		0,664		HU21WWIU 001	10.08.2021		
		0,680		HU2213WX 001	10.06.2022		

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.