

## 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 PBA 18V
3	Voltage rating	18V
4	Ah rating	1.5Ah / 2.0Ah / 2.5Ah 3.0Ah / 4.0Ah / 5.0Ah / 6.0Ah
5	Wh rating	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 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: 16.03.2026 Revision Number: 23

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Andreas Schneider  
 Senior Vice President Engineering (PT-GT/NE)  
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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 see below in Column "Test standard Revision".

Tüv Rheinland InterCert Kft. Vaci ut 48/A-B 1132 Budapest Hungary +36 1461 1100 tuv@hu.tuv.com www.tuv.hu	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
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	Dekra CertificationB.V. Meander 1051 6825 MJ Arnhem The Netherlands +31 88 968 3000 product.certification@dekra.com 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	Test Standard Revision	Applicable UN Number s acc. to UN Model Regulations	Delivered at max. 30% State of Charge
PBA 18V 1.5 Ah	Detachable slide in lithium-ion accumulator	0.365	27.0	28252538 001	07.04.2020	Rev7	UN3480/ UN3481	yes
PBA 18V 2.0 Ah	Detachable slide in lithium-ion accumulator	0.353 0.353 0.380 0.353 0.353 0.365 0.363 0.364 0.355 0.352	36.0	HU21FOSK 001 HU21FOSK 002 HU21FOSK 003 HU21FOSK 004 HU245SJM 001 CPSFTY/00051/23 HU245SJM 002 CPSFTY/00034/24 HU25ZT42 001 CPSFTY/00085/25	07.02.2022 07.02.2022 10.04.2022 09.03.2023 12.01.2024 20.02.2024 16.04.2024 06.06.2024 23.01.2025 15.01.2026	Rev7 Rev7 Rev7 Am1 Rev7 Am1 Rev7 Am1 Rev7 Am1 Rev7 Am1 Rev7 Am1 Rev7 Am1 Rev7 Am1	UN3480/ UN3481	yes

PBA 18V 2.5 Ah	Detachable slide in lithium-ion accumulator	0.362	45.0	28226658006	10.12.2020	Rev7	UN3480/ UN3481	yes
		0.362		HU215B2B 001	07.12.2021	Rev7		
		0.362		HU22A9U7 002	17.01.2023	Rev7		
		0.400		HU23X6CD 001	22.11.2023	Rev7 Am1		
		0.362		HU23X6CD 002	30.01.2024	Rev7 Am1		
		0.365		TR HU23X6CD 003	04.03.2024	Rev7 Am1		
		0.366		HU24IGTA 001	06.08.2024	Rev7 Am1		
		0.380		2296575.60	24.04.2025	Rev8		
PBA 18V 3.0 Ah	Detachable slide in lithium-ion accumulator	0.360	54.0	28252539001	07.04.2020	Rev7	UN3480/ UN3481	yes
		0.362		HU21TU56 001	10.08.2021	Rev7		
		0.362		HU21TU56 002	07.02.2022	Rev7		
		0.362		HU21TU56 002	07.07.2022	Rev7		
		0.575		HU22VSCV 002	09.11.2022	Rev7		
		0.384		HU24CDVX 001	09.10.2024	Rev7 Am1		
		0.380		2294662.61	26.02.2025	Rev8		
		0.370		2294662.60	26.02.2025	Rev8		
PBA 18V 4.0 Ah	Detachable slide in lithium-ion accumulator	0.575	72.0	28252403001	19.03.2020	Rev7	UN3480/ UN3481	yes
		0.630		HU21ZXY3 001	24.08.2021	Rev7		
		0.575		HU21KAZX 001	24.11.2021	Rev7		
		0.575		HU21KAZX 002	09.12.2021	Rev7		
		0.670		HU22SXUN 001	10.06.2022	Rev7		
		0.575		HU22SXUN 002	19.09.2022	Rev7		
		0.575		HU21KAZX 003	17.04.2023	Rev7 Am1		
		0.500		HU23RVRJ 001	07.12.2023	Rev7 Am1		
		0.648		HU24ETYL 001	16.04.2024	Rev7 Am1		
		0.650		HU249GAB 001	25.07.2024	Rev7 Am1		
		0.650		2296568.60	13.05.2025	Rev8		
		0.540		HU25OE52 001	10.04.2025	Rev7 Am1		
PBA 18V 5.0 Ah	Detachable slide in lithium-ion accumulator	0.668	90.0	HU22PXJ7 001	25.01.2022	Rev7	UN3480/ UN3481	yes
		0.650		HU225L1H 001	10.06.2022	Rev7		
		0.668		HU225L1H 002	26.09.2022	Rev7		
		0.654		HU24GBC5 001	19.04.2024	Rev7 Am1		
		0.658		HU24WECV 001	16.07.2024	Rev7 Am1		
		0.700		2301188.60	28.07.2025	Rev8		
PBA 18V 6.0 Ah	Detachable slide in lithium-ion accumulator	0.664	108.0	HU21WWIU 001	10.08.2021	Rev7	UN3480/ UN3481	yes
		0.680		HU2213WX 001	10.06.2022	Rev7		
		0.684		HU24NTIK 001	16.07.2024	Rev7 Am1		
		0.690		2302295.60	22.09.2025	Rev8		

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.