

Battery Test Summary Subsection 38.3 Tests and Criteria - Milwaukee -



1. Cell, Battery or Product manufacture

Techtronic Industries GmbH
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Germany

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2. Battery Transportation Information

Model Type	Item description	Battery mass (kg)	Wh rating	Test report #	Test report date
M28BX	Lithium-Ion battery	0,999	84	RZUN2016-3430	23.04.2017
M28B5	Lithium-Ion battery	1,037	140	RZUN2017-1458	18.07.2017
C18B, M18B	Lithium-Ion battery	0,492, 0,411	27	RZUN2018-1346	07.05.2018
M18B2	Lithium-Ion battery	0,428	36	RZUN2017-2129	13.12.2017
C18B, M18BX, MV18BX	Lithium-Ion battery	0,492, 0,717, 0,813	54	RZUN2018-1345	22.05.2018
M18HB3	Lithium-Ion battery	0,609	54	RZUN2019-0515	29.01.2019
M18B4	Lithium-Ion battery	0,715	72	RZUN2019-2403	03.07.2019
M18B5	Lithium-Ion battery	0,726	90	RZUN2019-4817	07.01.2020
M18HB5.5	Lithium-Ion battery	1,100	99	RZUN2018-3408	20.12.2018
M18B6	Lithium-Ion battery	0,752	108	RZUN2018-1420	18.06.2018
M18HB8	Lithium-Ion battery	1,086	144	RZUN2018-3407	06.01.2019
M18B9	Lithium-Ion battery	1,088	162	RZUN2018-1422	18.06.2018
M18HB12	Lithium-Ion battery	1,531	216	RZUN2017-2358	04.02.2018
C14B, M14B	Lithium-Ion battery	0,347, 0,345	22	RZUN2016-3423	06.04.2017
C14BX, M14BX	Lithium-Ion battery	0,621, 0,578	44	RZUN2016-3415	26.03.2017
C12B, M12B	Lithium-Ion battery	0,200, 0,179	18	RZUN2018-1402	12.07.2018
M12B2	Lithium-Ion battery	0,187	24	RZUN2018-1729	12.07.2018
M12B3	Lithium-Ion battery	0,190	36	RZUN2018-1419	18.06.2018
C12BX, M12BX	Lithium-Ion battery	0,405	36	RZUN2016-3422	28.03.2017
M12B4	Lithium-Ion battery	0,416	48	RZUN2017-2132	21.12.2017
M12B6	Lithium-Ion battery	0,423	72	RZUN2018-1418	18.06.2018
M4B2	Lithium-Ion battery	0,070	8	RZUN2017-2130	13.12.2017
L4B2	Lithium-Ion battery	0,070	10	RZUN2019-4815	01.07.2020
MXFCP203	Lithium-Ion battery	2,662	216	RZUN2018-1388	14.05.2018
MXFC406	Lithium-Ion battery	4,780	432	RZUN2018-1423	04.06.2018
M14B4	Lithium-Ion battery	0,580	56	RZUN2018-0120	18.01.2018
L4B3	Lithium-Ion battery	0,057	12	RZUN2019-3943	03.03.2020
M18B5-CR	Lithium-Ion battery	0,730	90	RZUN2021-1881	17.05.2021

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Model Type	Item description	Battery mass (kg)	Wh rating	Test report #	Test report date
M12HB2.5	Lithium-Ion battery	0,194	30	RZUN2021-4077	19.11.2021
M12HB5	Lithium-Ion battery	0,423	60	RZUN2021-4076	19.11.2021
MXFXC608	Lithium-Ion battery	4,414	576	RZUN2023-1675	11.04.2023
MXFHD812	Lithium-Ion battery	6,012	864	RZUN2022-4358	21.11.2022
M18FB6	Lithium-Ion battery	0,936	108	RZUN2022-4440-M1	22.05.2022
M18FB8	Lithium-Ion battery	1,052	144	RZUN2024-3995	18.07.2024
M18FB12	Lithium-Ion battery	1,453	216	RZUN2024-3996	18.07.2024
<u>Description of cell or battery:</u> Secondary Li-Ion battery pack with plastic housing used in power tools and/or garden machinery.					
Reference to assembled battery testing, if applicable: not applicable		Reference to the revised edition of the Manual of Tests and Criteria used and to amendments, if any: Revision 6 and 7, Amendment 1		<u>For air transport only</u> Does the cell or battery comply with the 30% state of charge? Yes	

3. Test summary

Contact information test laboratory	Performed Tests		
Vkan Certification & Testing Co. Ltd Address: No.3, Tiantaiyi Road,Kaitai Avenue,Science City,Guangzhou P. R. China. Tel.: 020 32293888 Fax: 020 32293889 E-Mail: office@cvc.org.cn Web: http://www.cvc.org.cn	38.3.4.1 --- T1	Altitude Simulation	Pass
	38.3.4.2 --- T2	Thermal Test	Pass
	38.3.4.3 --- T3	Vibration	Pass
	38.3.4.4 --- T4	Shock	Pass
	38.3.4.5 --- T5	External Short Circuit	Pass
	38.3.4.6 --- T6	Impact / Crush	Pass
	38.3.4.7 --- T7	Overcharge	Pass
	38.3.4.8 --- T8	Forced Discharge	Pass

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4. Product Classification for Transport (UN)

UN CLASSIFICATION

UN 3480

PROPER SHIPPING NAME

Lithium-Ion batteries

Document creation date

06.10.2023

This document remains valid as no changes, modification, or additions are made to the model(s) described in this document, after transported from a Manufacture Techtronic Industries GmbH facility.

The model(s) has (have) been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of the certification. The model(s) must packaged, labeled and documented according to country and international regulations for transportation.

5. Responsible person

A handwritten signature in blue ink, appearing to read 'M. Wieler', is written over a large, light blue, stylized 'TTI' watermark.

i.A. Maximilian Wieler

Manager Approvals, Associations and Standards
Techtronic Industries GmbH

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