

**POWER-SONIC LITHIUM CELLS OR BATTERIES
TEST SUMMARY
IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA**

POWER-SONIC CORPORATION

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**UN 38.3
CERTIFIED**



We confirm that Power Sonic's lithium iron cells and batteries meet the requirements of applicable tests in the UN Manual of Tests and Criteria ST/SG/SC.10/11/Rev.6/Amend.1, Part III, Sub-Section 38.3

UN 38.3 TEST SUMMARY

The UN 38.3 tests were performed by one of the following Test Laboratories. All tests completed strictly followed the UN Manual Test and Criteria, Revision 3 Amendment 1 or subsequent revisions or amendments. Please note each Test Laboratory has been assigned a reference number for traceability matching the laboratory each model was tested.

<p>Test Laboratory (TL1)</p> <p>Shenzhen Anbotek Compliance Laboratory Limited East of 4/F., Bldg. A, Hourui No. 3 Industrial Zone Xixiang Street, Bao'an District Shenzhen, Guangdong, China</p>	<p>Test Laboratory (TL2)</p> <p>Shanghai Research Institute of Chemical Industry Testing Centre West Entrance, No.345 East Yun Lin Road, Shanghai, 200062 China</p>	<p>Test Laboratory (TL3)</p> <p>Guangdong Inspection and Quarantine Technology Center Tower B, No. 66 Huacheng Avenue, Zhujiang Xincheng, Guangzhou, China</p>
<p>Test Laboratory (TL4)</p> <p>Pony Testing International Building 1, No. 66 Jindai Road, Zhongguancun Environmental Protection Park, Haidian District, Beijing, China</p>	<p>Test Laboratory (TL5)</p> <p>CMC Testing International (Shenzhen) Co., Ltd. 101&104, Building B, Kaihuimao industrial Park, Liyuan Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, China</p>	<p>Test Laboratory (TL6)</p> <p>DGuangdong ESTL Technology Co., Ltd. Room 101, 201-208, Unit1, & Room 201, Unit4, Building 1, No.9/Room 101, Unit 2, Building 1, No.11, Zongbu 2nd Road, Songshanhu Park, Dongguan, Guangdong, China</p>

PERFORMED TESTS

RESULTS

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

PRODUCT TEST INFORMATION

Model Number	Physical Description	Battery Weight (kg)	Wh Rating	Test Laboratory	Pass/Fail	Test Report Date
PSL-12450E	Rechargeable Lithium Iron Phosphate Battery	5.8 kg	579Wh	TL4	Pass	8/30/2018
PSL-12500	Rechargeable Lithium Iron Phosphate Battery	5.9 kg	640Wh	TL1	Pass	9/10/2019
PSL-CP-12500	Rechargeable Lithium Iron Phosphate Battery	5.9 kg	640Wh	TL6	Pass	1/5/2024
PSL-SH-1260	Rechargeable Lithium Iron Phosphate Battery	0.8 kg	79.4Wh	TL1	Pass	5/8/2020
PSL-SH-1270	Rechargeable Lithium Iron Phosphate Battery	0.9 kg	92.2Wh	TL1	Pass	5/11/2020
PSL-SH-12110	Rechargeable Lithium Iron Phosphate Battery	5.9 kg	146Wh	TL1	Pass	5/11/2020
PSL-SC-1270	Rechargeable Lithium Iron Phosphate Battery	0.9 kg	92.2Wh	TL1	Pass	5/11/2020
PSL-SC-1290	Rechargeable Lithium Iron Phosphate Battery	1.0 kg	115Wh	TL1	Pass	5/8/2020
PSL-SC-12100	Rechargeable Lithium Iron Phosphate Battery	1.3 kg	128Wh	TL1	Pass	6/26/2019
PSL-SC-12120	Rechargeable Lithium Iron Phosphate Battery	1.6 kg	154Wh	TL1	Pass	6/11/2020
PSL-SC-12200	Rechargeable Lithium Iron Phosphate Battery	2.6 kg	256Wh	TL1	Pass	8/9/2019
PSL-SC-12350	Rechargeable Lithium Iron Phosphate Battery	4.4 kg	448Wh	TL1	Pass	8/9/2019
PSL-SC-12500	Rechargeable Lithium Iron Phosphate Battery	6.3 kg	640Wh	TL1	Pass	8/9/2019
PSL-SC-12750-G24	Rechargeable Lithium Iron Phosphate Battery	9.3 kg	960Wh	TL1	Pass	8/9/2019
PSL-SC-12800-G27	Rechargeable Lithium Iron Phosphate Battery	10.1 kg	1024Wh	TL1	Pass	5/8/2020
PSL-SC-121000-G27	Rechargeable Lithium Iron Phosphate Battery	12.8 kg	1280Wh	TL1	Pass	5/8/2020
PSL-SC-121000-G31	Rechargeable Lithium Iron Phosphate Battery	12.8 kg	1280Wh	TL1	Pass	5/8/2020
PSL-SC-121250-G31	Rechargeable Lithium Iron Phosphate Battery	15.1 kg	1600Wh	TL1	Pass	5/15/2020
PSL-SC-121500-G8D	Rechargeable Lithium Iron Phosphate Battery	22.1 kg	1920Wh	TL1	Pass	4/24/2020

PRODUCT TEST INFORMATION

Model Number	Physical Description	Battery Weight (kg)	Wh Rating	Test Laboratory	Pass/Fail	Test Report Date
PSL-SC-122000-G8D	Rechargeable Lithium Iron Phosphate Battery	24.2 kg	2560Wh	TL1	Pass	8/9/2019
PSL-SC-122600-G8D	Rechargeable Lithium Iron Phosphate Battery	34.2 kg	3328Wh	TL1	Pass	8/9/2019
PSL-SC-123000-G8D	Rechargeable Lithium Iron Phosphate Battery	35.3 kg	3840Wh	TL1	Pass	4/24/2020
PSL-BTC-1290	Rechargeable Lithium Iron Phosphate Battery	1.2 kg	115Wh	TL4	Pass	1/17/2020
PSL-BTC-12120	Rechargeable Lithium Iron Phosphate Battery	1.6 kg	154Wh	TL4	Pass	1/17/2020
PSL-BTC-24100	Rechargeable Lithium Iron Phosphate Battery	2.8 kg	280Wh	TL4	Pass	3/6/2020
PSL-BTP-12200	Rechargeable Lithium Iron Phosphate Battery	3.0 kg	256Wh	TL4	Pass	2/28/2020
PSL-BT-12200	Rechargeable Lithium Iron Phosphate Battery	3.0 kg	256Wh	TL6	Pass	1/9/2024
PSL-BTP-12500	Rechargeable Lithium Iron Phosphate Battery	6.5 kg	640Wh	TL4	Pass	2/28/2020
PSL-BTP-12750	Rechargeable Lithium Iron Phosphate Battery	9.8 kg	960Wh	TL4	Pass	2/28/2020
PSL-BTP-121000	Rechargeable Lithium Iron Phosphate Battery	14.7 kg	1280Wh	TL4	Pass	2/28/2020
PSL-BTP-121250	Rechargeable Lithium Iron Phosphate Battery	15.0 kg	1600Wh	TL4	Pass	3/5/2020
PSL-BTP-121500	Rechargeable Lithium Iron Phosphate Battery	20.2 kg	1920Wh	TL4	Pass	2/28/2020
PSL-BTP-122000	Rechargeable Lithium Iron Phosphate Battery	24.8 kg	2560Wh	TL4	Pass	3/16/2020
PSL-BTP-123000	Rechargeable Lithium Iron Phosphate Battery	37.7 kg	3840Wh	TL4	Pass	2/28/2020
PSL-BTP-24500	Rechargeable Lithium Iron Phosphate Battery	1.3 kg	128Wh	TL4	Pass	2/28/2020
PSL-BT-48320-GC2	Rechargeable Lithium Iron Phosphate Battery	1.3 kg	1638Wh	TL6	Pass	1/24/2024
PSL-FP-IFR18650EC	Lithium Iron Phosphate Cylindrical Cell	0.04 kg	4.80Wh	TL4	Pass	1/23/2014
PSL-FP-IFR18650PC	Lithium Iron Phosphate Cylindrical Cell	0.04 kg	3.52Wh	TL2	Pass	3/9/2013
PSL-FP-IFR26650PC	Lithium Iron Phosphate Cylindrical Cell	0.09 kg	8.32Wh	TL2	Pass	3/9/2013

PRODUCT TEST INFORMATION

Model Number	Physical Description	Battery Weight (kg)	Wh Rating	Test Laboratory	Pass/Fail	Test Report Date
PSL-FP-IFR26650EC	Lithium Iron Phosphate Cylindrical Cell	0.09 kg	10.9Wh	TL4	Pass	9/29/2018
PSL-FP-IFP027070180EC	Lithium Iron Phosphate Prismatic Cell	0.65 kg	80.0Wh	TL4	Pass	3/27/2017
PSL-FP-IFP30135185EC	Lithium Iron Phosphate Prismatic Cell	1.4 kg	160Wh	TL3	Pass	5/30/2019
PSL-FP-IFP36130200EC	Lithium Iron Phosphate Prismatic Cell	1.9 kg	320Wh	TL3	Pass	5/3/2018
PSL-BT-121000-G27	Rechargeable Lithium Iron Phosphate Battery	1.1 kg	48Wh	TL6	Pass	1/2/2024
PSL-12V110	Rechargeable Lithium Iron Phosphate Battery	1.2 kg	145.9Wh	TL1	Pass	9/10/2021
PSL-SC-12110	Rechargeable Lithium Iron Phosphate Battery	1.2 kg	145.9Wh	TL5	Pass	8/8/2024

PRODUCT TEST INFORMATION

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Name and Title of Signatory



Signature _____

Chuck Stack
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