

UN/DOT 38.3

LITHIUM BATTERY TEST SUMMARY to SUBSECTION 38.3 of the UN/DOT MANUAL of TESTS and CRITERIA

Battery Tested: Xantrex Lithium Ion (LiFePO₄) Battery - **50Ah-24Vdc, P/N: 886-0050-24**

Test Report Number: ATSU220104761

Date of Test: 2022-02-25

Xantrex's product lithium ion batteries have successfully been tested and comply with UN/DOT Model Regulations, Manual of Test and Criteria, Part III, Subsection 38.3 to the following:

SUMMARY OF PERFORMED TESTS				RESULTS
38.3.4.1	T1	Altitude Simulation	Battery	Pass
38.3.4.2	T2	Thermal Test	Battery	Pass
38.3.4.3	T3	Vibration	Battery	Pass
38.3.4.4	T4	Shock	Battery	Pass
38.3.4.5	T5	External Short Circuit	Battery	Pass
38.3.4.6	T6	Crush / Impact	Cell	Pass
38.3.4.7	T7	Overcharge	Battery	Pass
38.3.4.8	T8	Forced Discharge	Cell	Pass

The UN/DOT 38.3 tests were performed by the following test laboratory and were tested to UN/DOT Manual of Test and Criteria, Revision 7, Amendment 1 revisions and amendments:

Test Laboratory: ATS Electronic Technology Co., Ltd.
3/F, Building A, No. 1, Hedong 3rd Road, Jinxia Community, Changan,
Dongguan, Guangdong, China.

Battery Test Information:

Model Number	Physical Description	Battery weight (kg) - Mass	Capacity Rating (V,Ah,Wh)	Net Equivalent Lithium Content (g)
886-0050-24	Lithium-ion Iron Phosphate (LiFePO ₄) battery with internal BMS	12.5 kg (27.5 lbs)	25.6 Vdc, 50 Ah, 1300 Wh	122 g (0.27 lbs)

Signed on: 2024-10-11



David Miller
Director, Engineering

Xantrex Business, Mission Critical Electronics