

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-36Vdc, P/N: 886-0050-36**

Test Report Number: PNS220118247 01001

Date of Test: 2022-03-01

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: GUANGDONG UTL CO., LTD.
Lianding Testing Building, No.18 Center Road of Yayuan Industrial Zone,
Nancheng District, Dongguan, Guangdong, China.

Battery Test Information:

| Model Number | Physical Description | Battery weight (kg) - Mass | Capacity Rating (V,Ah,Wh) | Net Equivalent Lithium Content (g) |
|--------------|---|----------------------------|---------------------------|------------------------------------|
| 886-0050-36 | Lithium-ion Iron Phosphate (LiFePO ₄) battery with internal BMS | 15.5 kg (34.1 lbs) | 38.4 Vdc, 50 Ah, 1920 Wh | 180 g (0.4 lbs) |

Signed on: 2024-10-11



David Miller
Director, Engineering

Xantrex Business, Mission Critical Electronics