

CERTIFICATION FOR LITHIUM BATTERY TRANSPORTATION CERTIFICATE

Concerning the transport according to the Dangerous Goods Regulations in air/road/sea transport modes.

We hereby declare that each battery pack is of the type proved to meet the requirements of each applicable test in the recommendations on the transport of dangerous goods, un manual of tests and criteria, part iii, sub-section 38.3, rev. 5, amend. 1

Certificate no.:	MT-3/2017/1500/UN
Based on Test Report no.:	TR/MT/1500/06/05/2017 dated 15.05.2017
UN no. / Shipping name:	UN 3480 / Lithium Ion Battery
Certified product:	Lithium Ion Battery (rechargeable)
Model designation:	SEACRAFT 700509172 (32,4V 1500Wh)
Article no.:	700509172

PERFORMED TESTS				
No.	Test method acc. to	Test	Requirements acc. to	Results
Test 1:	UN Section 38.3 clause 38.3.4.1.2	Altitude Simulation	UN Section 38.3 clause 38.3.4.1.3 No mass loss, no leakage, no venting, no disassembly, no rupture, and no fire. OCV is not less than 90% of its voltage before testing.	Passed
Test 2:	UN Section 38.3 clause 38.3.4.2.2	Thermal Test	UN Section 38.3 clause 38.3.4.2.3 No mass loss, no leakage, no venting, no disassembly, no rupture, and no fire. OCV is not less than 90% of its voltage before testing.	Passed
Test 3:	UN Section 38.3 clause 38.3.4.3.2	Vibration	UN Section 38.3 clause 38.3.4.3.3 No mass loss, no leakage, no venting, no disassembly, no rupture, and no fire. OCV is not less than 90% of its voltage before testing.	Passed
Test 4:	UN Section 38.3 clause 38.3.4.4.2	Shock	UN Section 38.3 clause 38.3.4.4.3 No mass loss, no leakage, no venting, no disassembly, no rupture, and no fire. OCV is not less than 90% of its voltage before testing.	Passed
Test 5:	UN Section 38.3 clause 38.3.4.5.2	External Short Circuit	UN Section 38.3 clause 38.3.4.5.3 External temperature should not exceed 170°C. No disassembly, no rupture, and no fire within six hours after this test	Passed
Test 7:	UN Section 38.3 clause 38.3.4.7.2	Overcharge	UN Section 38.3 clause 38.3.4.7.3 No disassembly, and no fire within seven days after this test	Passed

The Lithium Ion Battery Pack has to be declared and shipped as Dangerous Goods "Class 9". Fully regulated for transport as Class 9, see Packing Instruction 965 in section IA of the IATA DGR and packing Instruction P903 of ADR & IMDG. The Dangerous Goods label "Class 9" is required.

Signed for and on behalf of: MARINE TECH Spółka Akcyjna

Poznań, 15.05.2017

.....
(place and date)


 Jarek Macedoński, Chairman

 (name, position)(signature)

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