

Hawk-Woods

CERTIFICATION

UN Test 38.3 for Lithium-Ion Battery

Concerning the transport according to the Dangerous Goods Regulations of the different transport modes as in force since January, 1st 2003 and changes effective from 2009*

Batteries Tested	
VL-70 70Wh 14.4v Lithium-Ion	VL-90H 90Wh 14.4v Lithium-Ion
VL-100 100Wh 14.4v Lithium-Ion	VL-100H 100Wh 14.4v Lithium-Ion
VL-140 140Wh 14.4v Lithium-Ion	VL-150H 150Wh 14.4v Lithium-Ion
VL-175 175Wh 14.4v Lithium-Ion	VL-175H 175Wh 14.4v Lithium-Ion
VL-190 140Wh 14.4v Lithium-Ion	

Performed Tests	Results
38.3.4.1 Altitude Simulation	PASS ✓
38.3.4.2 Thermal	PASS ✓
38.3.4.3 Vibration	PASS ✓
38.3.4.4 Shock	PASS ✓
38.3.4.5 External Short Circuit	PASS ✓
38.3.4.6 Impact	PASS ✓
38.3.4.7 Overcharge	PASS ✓
38.3.4.8 Forced Discharge	PASS ✓

We certify 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

08 / 09 / 2014

Dated



Brian Woodford
Director