



Report Number: ATR-00105 Revision: 002

Date: 28-Apr-20

UN 38.3 Lithium Battery Test Summary

Battery Product Number

Part Number: TR-632
Part Name: Rechargeable Li-Ion Battery Pack

Manufacturer Information

Name: Alexander Technologies Europe Ltd.
Address: S.W. Industrial Estate, 4 Doxford Dr.
City: Peterlee State: County Durham Postal Code: SR8 2RL
Country: GB
Telephone: +44 191 587 2787 E-mail: cservice@alexenergy.co.uk Website: <https://www.alexandertechnologies.com>

Test Laboratory Information

Name: MET Laboratories, Inc.
Address: 914 West Palapasco Ave.
City: Baltimore State: Maryland Postal Code: 21230
Country: United States
Telephone: 410-354-3300 E-mail: info@metlabs.com Website: <https://www.metlabs.com>

Battery Description

Battery:	11.1V, 7.8Ah	Physical Description (dimensions, appearance):
Type:	Lithium Ion Secondary	Cell Configuration: 3S3P
Watt-Hour Rating:	87Wh	Dimensions: 1.90 x 2.29 x 9.25 inches (48.3 x 58.22 x 234.5 mm)
Pack Weight:	635 grams / 1.4 lbs.	Dark grey enclosure

Test Report Summary

Test Standard Used: UN Manual of Tests and Criteria Part III, Subsection 38.3 Lithium Metal and Lithium Ion Batteries, UN ST/SG/AC.10/11/Rev.6

Test Report No.: ESL41098-GEN Date: 6/5/2014

List of Tests Completed:

YES	NO	Test Number	PASS	FAIL	Additional Comments (or indicate compliance with other standards):
X		T.1: Altitude Simulation	X		Tested in accordance with Sec. 38.3.4.1, Test T.1
X		T.2: Thermal test	X		Tested in accordance with Sec. 38.3.4.2, Test T.2
X		T.3: Vibration	X		Tested in accordance with Sec. 38.3.4.3, Test T.3
X		T.4: Shock	X		Tested in accordance with Sec. 38.3.4.4, Test T.4
X		T.5: External Short Circuit	X		Tested in accordance with Sec. 38.3.4.5, Test T.5
		T.6: Impact/Crush			N/A (cell only)
X		T.7: Overcharge	X		Tested in accordance with Sec. 38.3.4.7, Test T.7
		T.8: Forced Discharge			N/A (cell only)

Signature: *PP Sze (Chris Turl)* Printed Name: Chris Turl Title: Engineering Director Date: May 11, 2020