



Report Number:	ATR-00105	Revision:	001
----------------	-----------	-----------	-----

Date:	24-Sep-19
-------	-----------

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		

Test Laboratory Information

Name:	MET Laboratories, Inc.				
Address:	914 West Patapsco Ave.				
City:	Baltimore	State:	Maryland	Postal Code:	21230
Country:	United States				
Telephone:	410-354-3300	E-mail:	www.metlabs.com		

Battery Description

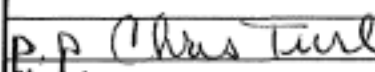
Battery:	11.1V, 7.8Ah	Physical Description (dimensions, appearance):
Type:	Lithium Ion Secondary	Cell Configuration: 3S3P
Watt-Hour Rating:	87	Dimensions: 1.90 x 2.29 x 9.25 inches (48.3 x 58.22 x 234.5 mm)
Pack Weight:	635 grams / 1.4 lbs.	Dark grey enclosure

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)

	Chris Turl	Engineering Director	Dec 9, 2019
Signature	Printed Name	Title	Date