



# UN 38.3 TEST REPORT

May 30, 2018

Part#: 1553

20C 2S 3200mAh 7.4V LiPo Hard Case - UNI 2.0-L

Watt Hours per cell: 11.8  
Watt Hours per battery: 23.68



TEST ITEM	TEST METHOD	CRITERION	CELL ID	Before The Test State			After The Test State			Test Results	Conclusion
				I.R(mΩ)	Voltage(V)	mass(g)	I.R(mΩ)	Voltage(V)	mass(g)		
T-1 Altitude Simulation	Stored at pressure 11.6kPa for 6Hr at 20±5°C	No mass loss No leakage No venting No disassembly No rupture No fire After testing : OCV 1 90% Voltage	10K012 - 1#	7.2	8.34	179	7.1	8.34	179	No mass loss No leakage No venting No disassembly No rupture No fire	PASS
			- 2#	7.2	8.34	181	7.2	8.34	181		PASS
			- 3#	7.6	8.35	181	7.5	8.34	181		PASS
			- 4#	7.5	8.33	182	7.5	8.33	182		PASS
T-2 Thermal Test	Test temp 75±20 for 6Hr & -20±20 for 6Hr (Transfer time : 30min), Repeat 10 times		10K012 - 5#	7.5	8.34	180	7.6	8.34	180		PASS
			- 6#	7.5	8.35	180	7.4	8.35	180		PASS
T-3 Vibration	7Hz=>200Hz=>7Hz tranverse in 15min. Repeat 12 for 3 Hr each. Total of 3 directions		10K012 - 1#	7.4	8.34	181	7.4	8.34	181		PASS
			- 2#	7.6	8.34	178	7.5	8.34	178		PASS
T-4 Shock	Half-sine shock of peak acceleration of 150gn,duration of 6ms. 3(pos.)shocks & follow by 3(neg.)shocks for 3 directions. Total 18 shocks		10K012 - 3#	7.1	8.33	179	7.2	8.33	179		PASS
			- 4#	7.3	8.34	181	7.3	8.34	181		PASS
T-5 External Short Circuit	Total external resistance of less than 0.1 ohm. Case temp.:55±20 for 1Hr & observe for further 6 Hrs.		10K012 - 3#	7.5	8.35	—	—	Max Temperature 130°C	No disassembly No rupture No fire		PASS
			- 4#	7.4	8.34	—	—	Max Temperature 132°C			PASS
T-6 Impact	Flat surface. 15.8mm diameter bar. Mass: 9.1kg, Height: 61±2.5cm	10K012 - 7#	7.1	50% Charged	—	—	Max Temperature 109°C	No disassembly No fire	PASS		
		- 8#	7.6	50% Charged	—	—	Max Temperature 111°C		PASS		
T-7 Overcharge	Maximum current(2C) specified by the manufacturer. 9V DC power supply for 24Hr.with PCM	10K012 - 9#	7.2	—	—	—	—	No disassembly No fire within 7days	PASS		
		- 10#	7.4	—	—	—	—		PASS		
T-8 Forced Discharge	Maximum discharge current (2C) specified by the manufacturer. 12V DC power supply for 0.1 Hr	10K012 - 11#	7.5	8.34	—	7.4	0	—	No disassembly No fire within 7days	PASS	
		-12#	7.3	8.34	—	7.4	0	—		PASS	
		-13#	7.3	8.34	—	7.2	0	—		PASS	

Venom Group International hereby certifies that the above products meet all United Nations dangerous material transport tests and criteria as outlined in the fifth revised edition, Amendment 1 of the UN manual under section 38.3.

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