



TEST REPORT

Applicant : SPECTOR & CO
Address : 5700 KIERAN ROAD, ST. LAURENT, QUEBEC, Canada H4S 2B5
Report No : 140923033SZN-001 **Issue Date** : Nov. 28, 2014

Sample Description

Type of Product : Power bank
Brand : /
Model No. of Product : T113
Date of Received : Sep. 24, 2014
Date of test Conducted : Oct 23, 2014 – Oct 31, 2014

Test

Test Method : UL/CSA 60950-1 Clause 4.3.8 & Clause 5.3
Sample quantity : 2
Test Observation: : See pages 2-5 for details.
Remark : When determine the test result, measurement uncertainty has been considered.

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Tested By

Approved by:

Signed on file

David Huang
 Engineer

Simon Sun
 Project Engineer

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Clause	Requirement + Test	Result - Remark	Verdict
4.3.8	Batteries	(see appended tables 4.3.8)	P
	- Overcharging of a rechargeable battery		P
	- Unintentional charging of a non-rechargeable battery		P
	- Reverse charging of a rechargeable battery		P
	- Excessive discharging rate for any battery		P
5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P

Clause	Requirement + Test	Result - Remark	Verdict
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4.3.8	TABLE: Batteries								P
The tests of 4.3.8 are applicable only when appropriate battery data is not available		No						--	
Is it possible to install the battery in a reverse polarity position?		No						--	
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	/	/	/	0.870A	2.0A	3.89A	8.0A	/	/
Max. current during fault condition	/	/	/	0.870A	2.0A	5.0A	8.0A	/	/
Test results:									
- Chemical leaks		No						P	
- Explosion of the battery		No						P	
- Emission of flame or expulsion of molten metal		No						P	
- Electric strength tests of equipment after completion of tests		-						N/A	
Supplementary information: /									

4.3.8	TABLE: Batteries								
Battery category : Lithium polymer									
Manufacturer : Dongguan General Exploring Battery Technology CO., LTD.									
Type / model..... : GEB5070100C1									
Voltage : 3.7V									
Capacity..... : 8000mAh									
Tested and Certified by (incl. Ref. No.). : /									
Circuit protection diagram: Not provided									

Clause	Requirement + Test	Result - Remark	Verdict			
5.3	TABLE: Fault condition tests		P			
	Ambient temperature (°C)	25	—			
	Power source for EUT: Manufacturer, model/type, output rating	/	—			
Com- ponent No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
USB output	Overcharging	5	7H	/	/	No hazards
USB output	Excessive discharging	Fully battery	7H	/	/	No hazards
USB output	Overload	Fully battery	2H	/	/	No hazards
USB output	Short-circuited	Fully battery	45mis	/	/	No hazards
Supplementary information:/						

Clause	Requirement + Test	Result - Remark	Verdict
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Photo:

