



# TEST REPORT

**Applicant** : SPECTOR & CO  
**Address** : 5700 KIERAN ROAD, ST. LAURENT, QUEBEC, Canada H4S 2B5  
**Report No** : 140923035SZN-001 **Issue Date** : Nov. 28, 2014

### Sample Description

*Type of Product* : Power bank  
*Brand* : /  
*Model No. of Product* : T120  
*Date of Received* : Sep. 24, 2014  
*Date of test Conducted* : Oct 27, 2014 – Oct 30, 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*

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David Huang  
Engineer

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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
<b>5.3</b>	<b>Abnormal operating and fault conditions</b>		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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<b>4.3.8</b>	<b>TABLE: Batteries</b>								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	/	/	/	0.821A	4.4A	1.21A	4.4A	/	/
Max. current during fault condition	/	/	/	0.821A	4.4A	1.37A	4.4A	/	/
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: /									

<b>4.3.8</b>	<b>TABLE: Batteries</b>								
Battery category ..... : Lithium Ion									
Manufacturer ..... : Shenzhen huayou macro industry new energy technology CO., Ltd									
Type / model..... : 2P18650									
Voltage ..... : 3.6V									
Capacity..... : 4400mAh									
Tested and Certified by (incl. Ref. No.). : /									
Circuit protection diagram: Not provided									

Clause	Requirement + Test	Result - Remark	Verdict			
<b>5.3</b>	<b>TABLE: Fault condition tests</b>		<b>P</b>			
	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	Short-circuited	Fully battery	2H	/	/	No hazards
USB output	Overload	Fully battery	4H	/	/	No hazards
Supplementary information:/						

Clause	Requirement + Test	Result - Remark	Verdict
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Photo:

