Report No. 388594-1TRFENV

TEST REPORT
ENERGY STAR® Program Requirements Product Specification for Audio/Video Eligibility Criteria Version 3.0 (Rev. Dec-2014)

Report Reference No.:	388594-1TRFENV	
Tested by:	Khanh Do	Date: 16 December 2019
Reviewed by :		Date: 18 December 2019
	S.C. Beck, Director of Certification	
Total number of pages .....:	8	
Testing Laboratory Name ..... :	Nemko Canada, Inc	Phone: (613) 737-9680
Address..... :	303 River Rd., Ottawa, ON K1V 1H2 Canada	
Testing location/ procedure ..... :	EEV lab	
Brand Owner:	Crestron Electronics Inc.	
Manufacturer:	Sonavox Canada Inc.	
Address:	261 Milani Blvd., Woodbridge, ON L4H 4E3 Canada	
Model/Type reference:	M201926002	
SKU:	AMP-X50MP	
Test specification:		
Specification:	ENERGY STAR® Program Requirements Product Specification for Audio/Video Eligibility Criteria Version 3.0 (Rev. Dec-2014) ENERGY STAR® Program Requirements Product Specification for Audio/Video Test Method Rev. Jul-2010	
Non-standard test method:	N/A	

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Test item description:	Audio Amplifier
Trade Mark:	*CRESTRON*
Manufacturer:	Sonavox Canada Inc.
Model/Type reference:	M201926002
SKU:	AMP-X50MP
Serial Nos.:	SN 1946SVC00008
Ratings:	Input: 24 Vdc, 2.5 A
Power supply Information	
Power Supply (PSU) Type:	Switch mode external power supply
PSU Manufacturer:	Dongguan NB Power Electronic Limited
Brand Name:	NetBit
PSU Model Number:	NBS65A240250M2
PSU Ratings:	Input: 100-240Vac, 50/60Hz, 1.5A Output: 24.0Vdc, 2.5A
International Efficiency Marking Protocol (IEMP):	Marked IEMP Level VI
Possible test case verdicts:	
- test case does not apply to the test object .....:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement .....:	F (Fail)
Overall Verdict:	P - The items tested were observed to comply with the requirements of the test specification.
Test items	
Dates of receipt of test item.....:	12 December 2019
Date (s) of performance of tests .....:	13 & 16 December 2019
Test Item No.:	388594, Items #3 and # 4

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Tests and Calculated Results			
Test voltages/Frequencies :	115V/60Hz		
Ambient Conditions	22.9°C, 22.2% RH		
Uncertainty of measurement			
Measurement uncertainty calculations assume a coverage factor of K=2 with 95% certainty. Input power ..... 0.27 %			
	Limit	**Result**	**Verdict**
3.3 Auto Power Down			
3.3.3 ADP Timing (Minutes)	30	30	P
3.4 Sleep Mode			
Sleep Mode Requirements:			
Base Allowance (W) ($P_{SLEEP\ BASE}$)	1.0	0.213	P
In Use Networking / Control Protocol with Wake Capability (P_{WAKE_I})	1.0	N/A	N/A
In-use Wi-Fi or Gigabit Ethernet Protocols with Wake Capability (Applied to Either Wi-Fi or Gigabit Ethernet, but Not Both Simultaneously (P_{WAKE_I})	2.0	N/A	N/A
3.5 Optical Disc Player On Mode Requirements	N/A	N/A	N/A
3.6 Idle State Requirements			
If Automatic Power Down (ADP) ≤ 30 Min. and cannot be disabled or increased to greater than 30 Minutes, this is excluded from the requirements		APD is fixed at 30 minutes	N/A
Base Allowance (All Products) (W) (P_{IDLE_I})	5.0		
In Use Networking / Control Protocol	N/A		
In-use Wi-Fi or Gigabit Ethernet Protocols with Wake Capability (Applied to Either Wi-Fi or Gigabit Ethernet, but Not Both Simultaneously(P_{IDLE_I})	N/a		
Audio Amplification P_{OUT} ≤ 50 watts P_{OUT} > 50 watts *Where:* *P_{OUT} is the output power at 1/8 MUP with 1 kHz sinusoidal input*	5.0 *0.1 x P_{OUT}*		
Total Allowance:	10.0	5.26	P
3.7 Amplifier Efficiency Requirements			N/A
Input Power (W)	N/A	60.0	
Amplifier Input Power at 1/8 MUP with 1 kHz Sinusoidal input, P_{IN} (W)		7.95	
P_{IN} < 20		N/A	
20 ≤P_{IN} < 100	0.44	N/A	
P_{IN} > 100	0.55	N/A	
Output Power (W)			
Low Output Z: (1.01W per channel x 2 = 2.02 W)		2.02	
Hi Output Z (Measured at 100V connector + Com. pin)		2.20	

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Photographs

Model M201926002 - Namplate

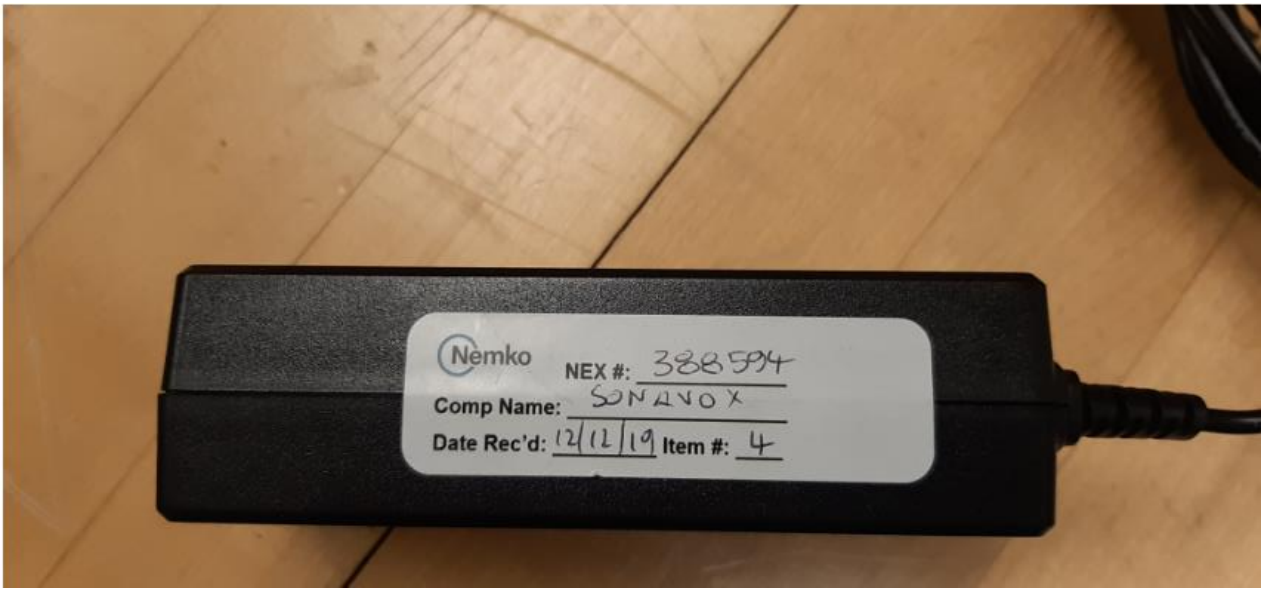
Model M201926002 – Front View

Model M201926002 – Rear View

Model M201926002 – Top View, Test Item ID

EPS, NetBit Model NBS65A240250M2 – Nameplate

EPS, NetBit Model NBS65A240250M2 – Top View



EPS, NetBit Model NBS65A240250M2 – Test Item ID

Nemko

List of test equipment used:

Description	Manufacturer	Model No.	ID No.	Cal Date	Cal. Due
AC Power Source		6415	FA002412	N/A	N/A
Power Analyzer	Xitron	2801	FA002235	2019-09-11	2020-09-11
Power Analyzer	Xitron	2801	FA002375	2020-09-11	2020-09-11
Interconnection Arrangement	Nemko	N/A	N/A	N/A	N/A
Interconnection Arrangement	Nemko	N/A	N/A	N/A	N/A
Synthesized Signal Generator	Standard Research Systems	DS345	FA001746	Used with calibrated analyzer & oscilloscope	Used with calibrated analyzer & oscilloscope
Vector Signal Analyzer	Hewlett Packard	89410A	FA001571	2019-08-05	2020-08-05
Digital Oscilloscope	Tektronix	3012C	FA002839	2019-01-09	2020-01-09
Differential Probe	Tektronix	P5200	FA002048	2019-09-10	2020-09-10
Resistive Load	ISKRA	PR533	PS32	N/A	N/A
Resistive Load	ISKRA	PR533	PS32	N/A	N/A
Resistive Load	ISKRA	PR533	PS32	N/A	N/A
Digital Multi-Meter	Fluke	87III	FA001835	2019-01-08	2020-0-08