

SeaSonic Prime Fanless TX-700

Lab ID#: SS70001872 Receipt Date: Jul 7, 2021 Test Date: Jul 16, 2021

Report: 21PS1872A

Report Date: Jul 20, 2021

DUT INFORMATION				
SeaSonic				
Seasonic				
Prime TX Fanless				
SSR-700TL				
R2007AA150600197				

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	9.5-4.5
Rated Frequency (Hz)	50-60
Rated Power (W)	700
Туре	ATX12V
Cooling	-
Semi-Passive Operation	Х
Cable Design	Fully Modular

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x4 Chroma 63600-2 x2 63640-80-80 x20 63610-80-20 x2
AC Sources	Chroma 6530, Keysight AC6804B
Power Analyzers	N4L PPA1530 x2
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Data Loggers	Picoscope TC-08 x2, Labjack U3-HV x2
Tachometer	UNI-T UT372 x2
Digital Multimeter	Keysight U1273AX, Fluke 289, Keithley 2015 - THD
UPS	CyberPower OLS3000E 3kVA x2
Transformer	3kVA x2

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RESULTS	
Temperature Range (°C/°F)	30-32 / 86-89.6 (+-2°C / +- 3.6°F)
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	✓

115V	
Average Efficiency	91.629%
Efficiency With 10W (≤500W) or 2% (>500W)	71.651
Average Efficiency 5VSB	80.314%
Standby Power Consumption (W)	0.0538436
Average PF	0.989
Avg Noise Output	- dB(A)
Efficiency Rating (ETA)	TITANIUM
Noise Rating (LAMBDA)	A++

230V	
Average Efficiency	93.046%
Average Efficiency 5VSB	78.666%
Standby Power Consumption (W)	0.0835349
Average PF	0.943
Avg Noise Output	- dB(A)
Efficiency Rating (ETA)	TITANIUM
Noise Rating (LAMBDA)	A++

POWER SPECIFICATIONS								
Rail		3.3V	5V	12V	5VSB	-12V		
Max. Power	Amps	20	20	58	2.5	0.3		
	Watts	100		696	12.5	3.6		
Total Max. Power (W)		700						

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CABLES AND CONNECTORS Modular Cables Cable Count Description Connector Count (Total) Gauge In Cable Capacitors 1 1 18-22AWG ATX connector 20+4 pin (600mm) Yes 2 2 4+4 pin EPS12V (660mm) 18AWG No 6+2 pin PCle (760mm) 4 4 18AWG No SATA (410mm+150mm+150mm+150mm) 1 4 18AWG No SATA (450mm+120mm+120mm+120mm) 1 4 18AWG No SATA (300mm+160mm) 1 2 18AWG No 4 pin Molex (450mm+125mm+125mm) 1 3 18AWG No 1 2 18AWG 4 pin Molex (360mm+125mm) No 4 pin Molex to SATA 3.3 Adapter (150mm+150mm) 1 2 18AWG No AC Power Cord (1360mm) - C13 coupler 1 1 18AWG

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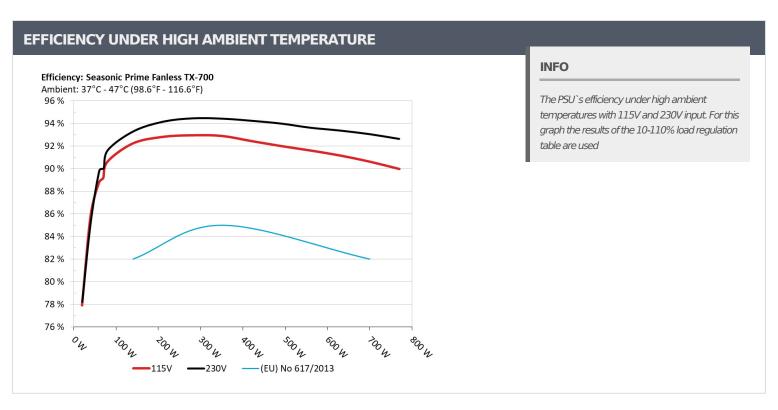
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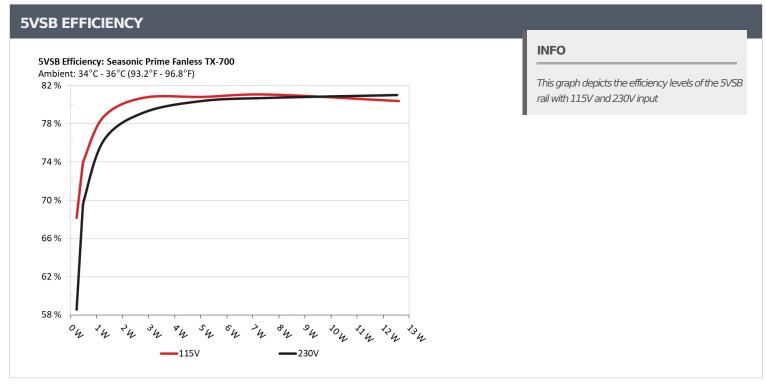
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5VSB EFFICIEN	CY -115V (ERP LOT	3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
	0.045A	0.231W	- 601450/	0.033
1	5.122V	0.339W	68.145%	115.16V
2	0.09A	0.461W	72.640/	0.061
2	5.121V	0.626W	73.64%	115.16V
_	0.55A 2.807W	2.807W	00.7100/	0.262
3	5.103V	3.477W	80.719%	115.17V
	1A	5.087W	00.7000/	0.358
4	5.085V	6.295W	80.799%	115.17V
-	1.5A	7.604W	01.0470/	0.413
5	5.068V	9.382W	81.047%	115.17V
-	2.501A	12.599W	00.270/	0.467
6	5.038V	15.676W	80.37%	115.16V

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
-	0.045A	0.231W	F0 FF20/	0.012
1	5.12V	0.395W	58.552%	230.37V
_	0.09A	0.461W	CO 00 40/	0.02
2	5.119V	0.669W	68.924%	230.36V
2	0.55A	2.805W	70.1450/	0.102
3	5.098V	3.544W	79.146%	230.34V
4	1A	5.079W	00.2540/	0.171
4	5.078V	6.32W	80.364%	230.32V
F	1.5A	7.585W	00.6750/	0.238
5	5.056V	9.402W	80.675%	230.27V
	2.501A	2.501A 12.54W	00.0730/	0.319
6	5.015V	15.486W	80.973%	230.31V

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115V

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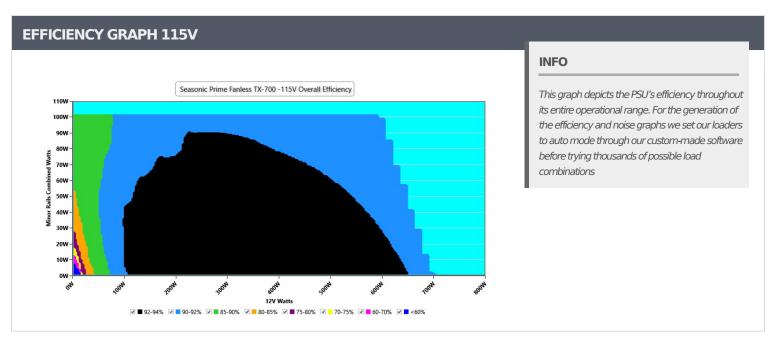
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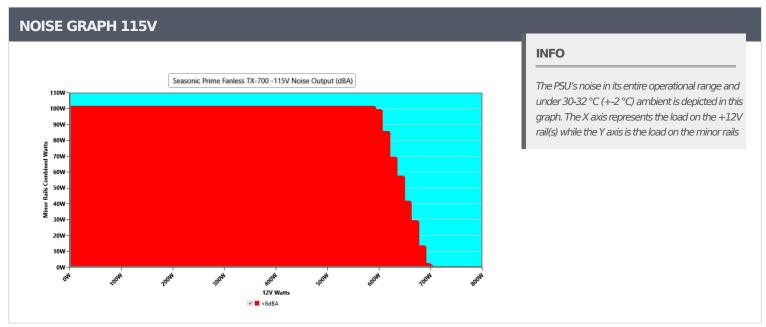
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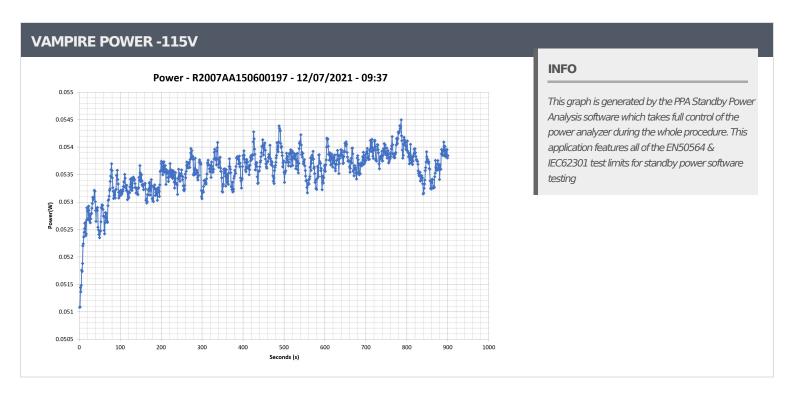
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COMMISSION REGULATION (EU) NO 617/2013 TESTING 115V								
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Temps (In/Out)	PF/AC Volts
100/	3.988A	1.96A	1.973A	1.008A	70.006	89.185%	45.37°C	0.957
10%	12.137V	5.104V	3.346V	4.96V	78.495		40.36°C	115.2V
2007	8.990A	2.948A	2.976A	1.216A	139.962	92.251%	46.16°C	0.984
20%	12.131V	5.09V	3.327V	4.935V	151.718		40.57°C	115.19V
F00/	24.730A	4.95A	5.031A	1.851A	350.02	02.01.00/	49.31°C	0.997
50%	12.111V	5.052V	3.28V	4.862V	376.703	92.916%	42.35°C	115.17V
1000/	50.748A	9.038A	9.312A	2.629A	700.4	90.633%	55.54°C	0.997
100%	12.083V	4.98V	3.19V	4.756V	772.786		45.6°C	115.18V

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230V

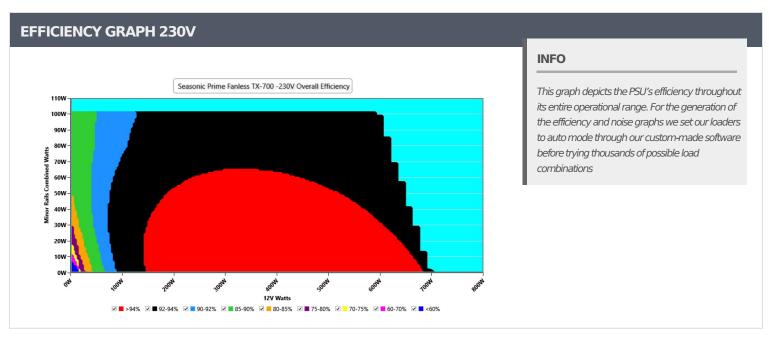
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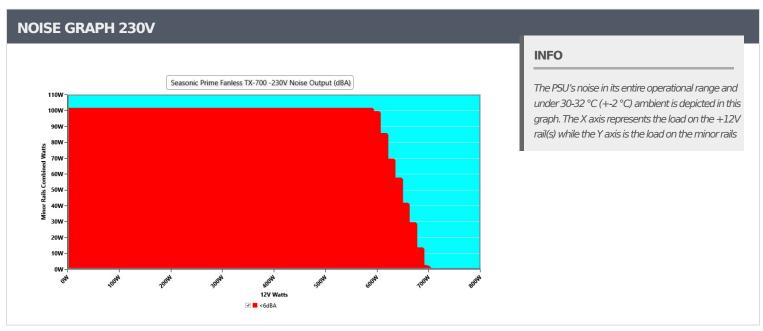
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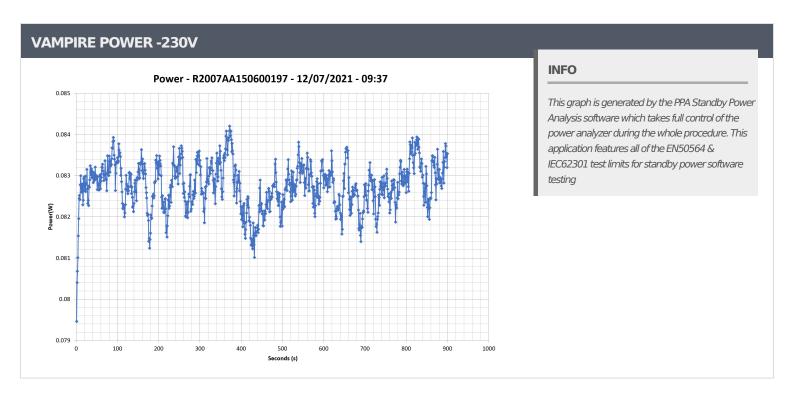
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COMMISSION REGULATION (EU) NO 617/2013 TESTING 230V								
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Temps (In/Out)	PF/AC Volts
100/	4.040A	2A	2A	1A	70.914	90.014%	45.38°C	0.756
10%	12.140V	5.103V	3.346V	4.961V	78.781		40.44°C	230.41V
2007	9.106A	3.001A	3A	1.2A	141.691	93.303%	46.03°C	0.891
20%	12.136V	5.089V	3.328V	4.936V	151.862		40.78°C	230.41V
F00/	24.966A	5.001A	5.001A	1.8A	353.196	04.4120/	49.23°C	0.971
50%	12.126V	5.052V	3.282V	4.866V	374.101	94.412%	42.29°C	230.42V
1000/	50.637A	9.039A	9.315A	2.627A	700.385	93.045%	55.63°C	0.988
100%	12.109V	4.979V	3.188V	4.759V	752.735		45.55°C	230.44V

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CERTIFICATIONS 115V







Aris Mpitsiopoulos

Lab Director

CERTIFICATIONS 230V





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