

Asus ROG-LOKI-750P-SFX-L-GAMING

Lab ID#: AS75002053
Receipt Date: Jul 2, 2022
Test Date: Aug 26, 2022

Report: 22PS2053A

Report Date: Aug 25, 2022

DUT INFORMATION					
Brand	Asus				
Manufacturer (OEM)	Great Wall				
Series	Rog Loki				
Model Number	ROG-LOKI-750P-SFX-L-GAMING				
Serial Number	2M050000255				
DUT Notes					
Serial Number					

DUT SPECIFICATIONS							
Rated Voltage (Vrms)	100-240						
Rated Current (Arms)	10-5						
Rated Frequency (Hz)	47-63						
Rated Power (W)	750						
Туре	SFX-L						
Cooling	120mm Double Ball Bearing Fan (CF1225H12D)						
Semi-Passive Operation	/						
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	/
ALPM (Alternative Low Power Mode) compatible	/

115V	
Average Efficiency	90.554%
Efficiency With 10W (≤500W) or 2% (>500W)	71.487
Average Efficiency 5VSB	81.303%
Standby Power Consumption (W)	0.0542000
Average PF	0.986
Avg Noise Output	18.87 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A+

230V	
Average Efficiency	92.331%
Average Efficiency 5VSB	79.929%
Standby Power Consumption (W)	0.0986000
Average PF	0.949
Avg Noise Output	19.20 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A+

POWER SPECIFICATIONS								
Rail		3.3V	5V	12V	5VSB	-12V		
Mary Daviss	Amps	20	20	62.5	2.5	8.0		
Max. Power	Watts	110		750	12.5	9.6		
Total Max. Power (W)		750						

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Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (450mm)	1	1	18AWG	No
4+4 pin EPS12V (550mm)	2	2	16AWG	No
12+4 pin PCle (460mm)	1	1	16-24AWG	No
2x 6+2 pin PCle (450mm)	1	2	16AWG	No
6+2 pin PCle (450mm)	1	1	16-18AWG	No
SATA (300mm+190mm+90mm)	2	6	18AWG	No
4 pin Molex (300mm+100mm+100mm+100mm)	1	4	18AWG	No
Addressable Aura RGB cable (80mm)	1	1	22AWG	No
RGB controller cable (85mm)	1	1	24AWG	No

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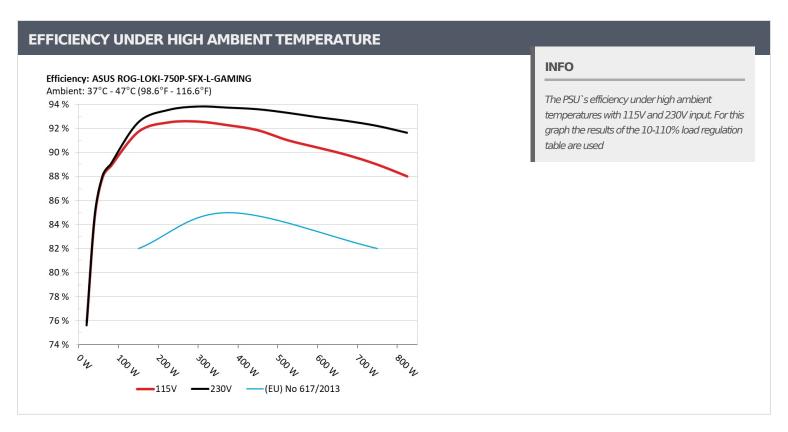
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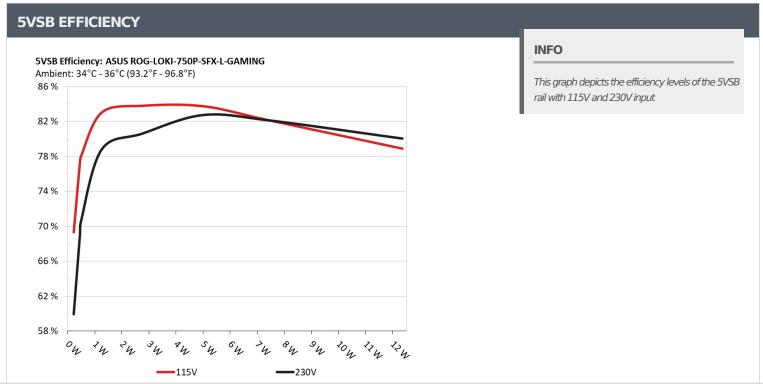
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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)						
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts		
1	0.045A	0.227W	CO 22C0/	0.035		
1	5.043V	0.327W	69.326%	115.17V		
2	0.09A	0.454W	77.0410/	0.062		
	5.041V	0.588W	77.241%	115.17V		
3	0.55A	2.761W	02.0120/	0.267		
	5.022V	3.294W	83.812%	115.17V		
	1A	5.005W	02.7520/	0.365		
1	5.005V	5.975W	83.763%	115.16V		
	1.5A	7.479W	00.10.407	0.417		
5	4.986V	9.106W	82.124%	115.16V		
	2.499A	12.368W	70,0000/	0.472		
6	4.949V	15.674W	78.906%	115.16V		

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)					
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts	
1	0.045A	0.227W	F0 03%	0.011	
1	5.043V	0.36W	59.92%	230.34V	
•	0.09A	0.454W	50.0570/	0.021	
2	5.041V	0.658W	68.967%	230.34V	
3	0.55A	2.759W	00.62004	0.104	
	5.018V	3.423W	80.628%	230.34V	
	1A	5.002W	00 7500/	0.17	
ļ	5.003V	6.044W	82.758%	230.34V	
_	1.5A	7.475W	00.1070/	0.231	
5	4.984V	9.102W	82.127%	230.34V	
	2.499A	12.359W	00.05%	0.311	
6	4.945V	15.437W	80.06%	230.34V	

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115V

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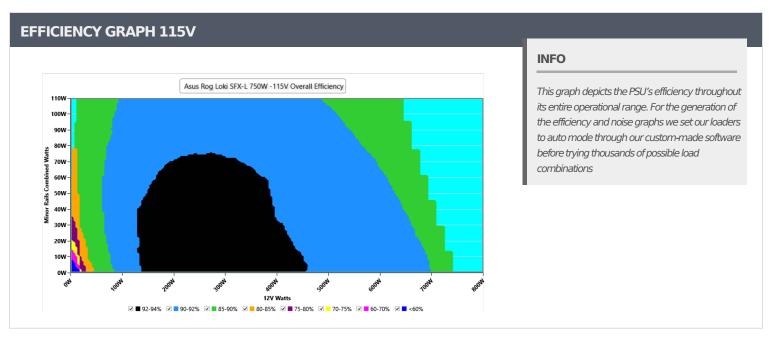
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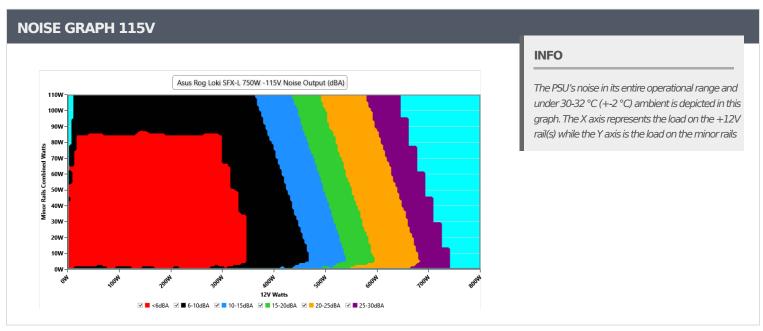
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VAMPIRE POWER -115V

Detailed Results								
	Average	Min	Limit Min	Max	Limit Max	Result		
Mains Voltage RMS:	115.16 V	115.13 V	113.85 V	115.20 V	116.15 V	PASS		
Mains Frequency:	60.00 Hz	59.95 Hz	59.40 Hz	60.02 Hz	60.60 Hz	PASS		
Mains Voltage CF:	1.416	1.415	1.340	1.418	1.490	PASS		
Mains Voltage THD:	0.13 %	0.10 %	N/A	0.17 %	2.00 %	PASS		
Real Power:	0.054 W	0.048 W	N/A	0.062 W	N/A	N/A		
Apparent Power:	9.902 W	9.697 W	N/A	10.121 W	N/A	N/A		
Power Factor:	0.005	N/A	N/A	N/A	N/A	N/A		

INFO

This graph is generated by the PPA Standby Power Analysis software which takes full control of the power analyzer during the whole procedure. This application features all of the EN50564 & IEC62301 test limits for standby power software testing

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Asus ROG-LOKI-750P-SFX-L-GAMING

COMMISSION REGULATION (EU) NO 617/2013 TESTING 115V										
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
100/	4.448A	1.976A	1.985A	1.003A	74.995	88.831% 0	0	<6.0	44.28°C	0.982
10%	12.005V	5.062V	3.325V	4.983V	84.423		0		40.22°C	115.14V
200/	9.914A	2.967A	2.98A	1.207A	149.919		0	<6.0	45.43°C	0.981
20%	12.005V	5.056V	3.322V	4.972V	163.442	91.726%	0		41.07°C	115.12V
500 /	26.970A	4.944A	4.97A	1.827A	374.4	02.2620/		6.0	47.79°C	0.989
50%	12.009V	5.057V	3.32V	4.927V	405.803	92.262%	0	<6.0	42.26°C	115.07V
1000/	55.130A	8.912A	8.96A	2.568A	749.586	00.0060/	1100	26.0	45°C	0.996
100%	12.015V	5.049V	3.314V	4.866V	842.37	88.986%	8.986% 1189	26.8	55.14°C	114.93V

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230V

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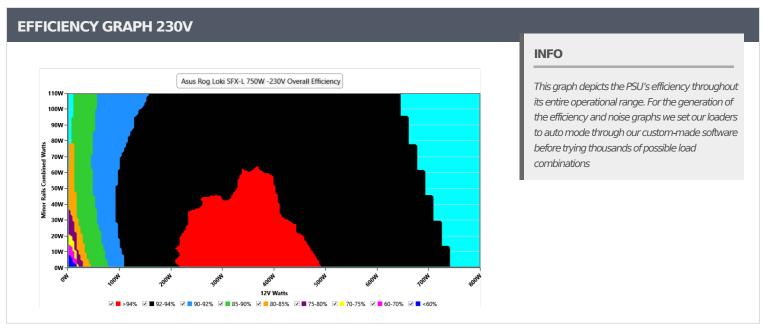
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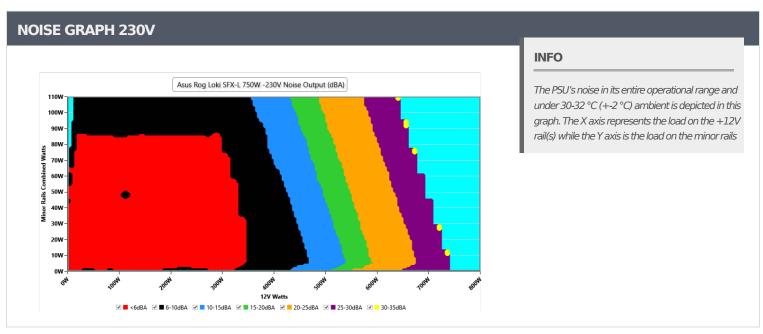
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VAMPIRE POWER -230V

Detailed Results											
	Average	Min	Limit Min	Max	Limit Max	Result					
Mains Voltage RMS:	230.34 V	230.23 V	227.70 V	230.38 V	232.30 V	PASS					
Mains Frequency:	50.00 Hz	49.99 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS					
Mains Voltage CF:	1.416	1.415	1.340	1.417	1.490	PASS					
Mains Voltage THD:	0.12 %	0.10 %	N/A	0.20 %	2.00 %	PASS					
Real Power:	0.099 W	0.085 W	N/A	0.128 W	N/A	N/A					
Apparent Power:	33.071 W	32.638 W	N/A	33.550 W	N/A	N/A					
Power Factor:	0.003	N/A	N/A	N/A	N/A	N/A					

INFO

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Asus ROG-LOKI-750P-SFX-L-GAMING

COMMISSION REGULATION (EU) NO 617/2013 TESTING 230V											
12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts		
4.447A	1.975A	1.985A	1.003A	74.997	88.991%	0	<6.0	44.49°C	0.841		
12.007V	5.063V	3.325V	4.986V	84.277				40.46°C	230.33V		
9.907A	2.964A	2.979A	1.206A	149.92	00 5100/	0	<6.0	44.87°C	0.927		
12.013V	5.061V	3.324V	4.973V	162.056	92.513%			40.55°C	230.32V		
26.973A	4.943A	4.969A	1.825A	374.459	93.732%	0	<6.0	48.13°C	0.968		
12.010V	5.058V	3.321V	4.93V	399.496				42.68°C	230.29V		
55.138A	8.913A	8.96A	2.567A	749.623	00.0110/	1196	27.1	45.27°C	0.982		
12.014V	5.049V	3.314V	4.867V	812.947	92.211%			55.32°C	230.24V		
	12V 4.447A 12.007V 9.907A 12.013V 26.973A 12.010V 55.138A	12V 5V 4.447A 1.975A 12.007V 5.063V 9.907A 2.964A 12.013V 5.061V 26.973A 4.943A 12.010V 5.058V 55.138A 8.913A	12V 5V 3.3V 4.447A 1.975A 1.985A 12.007V 5.063V 3.325V 9.907A 2.964A 2.979A 12.013V 5.061V 3.324V 26.973A 4.943A 4.969A 12.010V 5.058V 3.321V 55.138A 8.913A 8.96A	12V 5V 3.3V 5VSB 4.447A 1.975A 1.985A 1.003A 12.007V 5.063V 3.325V 4.986V 9.907A 2.964A 2.979A 1.206A 12.013V 5.061V 3.324V 4.973V 26.973A 4.943A 4.969A 1.825A 12.010V 5.058V 3.321V 4.93V 55.138A 8.913A 8.96A 2.567A	12V 5V 3.3V 5VSB DC/AC (Watts) 4.447A 1.975A 1.985A 1.003A 74.997 12.007V 5.063V 3.325V 4.986V 84.277 9.907A 2.964A 2.979A 1.206A 149.92 12.013V 5.061V 3.324V 4.973V 162.056 26.973A 4.943A 4.969A 1.825A 374.459 12.010V 5.058V 3.321V 4.93V 399.496 55.138A 8.913A 8.96A 2.567A 749.623	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency 4.447A 1.975A 1.985A 1.003A 74.997 88.991% 12.007V 5.063V 3.325V 4.986V 84.277 88.991% 9.907A 2.964A 2.979A 1.206A 149.92 92.513% 12.013V 5.061V 3.324V 4.973V 162.056 92.513% 26.973A 4.943A 4.969A 1.825A 374.459 93.732% 12.010V 5.058V 3.321V 4.93V 399.496 93.732% 55.138A 8.913A 8.96A 2.567A 749.623 92.211%	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency Fan Speed (RPM) 4.447A 1.975A 1.985A 1.003A 74.997 88.991% 0 12.007V 5.063V 3.325V 4.986V 84.277 88.991% 0 9.907A 2.964A 2.979A 1.206A 149.92 92.513% 0 12.013V 5.061V 3.324V 4.973V 162.056 92.513% 0 26.973A 4.943A 4.969A 1.825A 374.459 93.732% 0 12.010V 5.058V 3.321V 4.93V 399.496 93.732% 0 55.138A 8.913A 8.96A 2.567A 749.623 92.211% 1196	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency Fan Speed (RPM) PSU Noise (dB[A]) 4.447A 1.975A 1.985A 1.003A 74.997 88.991% 0 <6.0	12V 5V 3.3V 5VSB DC/AC (Watts) Efficiency Fan Speed (RPM) PSU Noise (In/Out) Temps (In/Out) 4.447A 1.975A 1.985A 1.003A 74.997 88.991% 0 <6.0		

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CERTIFICATIONS 115V







Aristeidis BitziopoulosLab Director

CERTIFICATIONS 230V





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