

Anex

Asus ROG-LOKI-1200T-SFX-L-GAMING

Lab ID#: AS12002242

Receipt Date: Aug 3, 2023

Test Date: Sep 21, 2023

Report: 23PS2242A

Report Date: Sep 22, 2023

DUT INFORMATION	
Brand	Asus
Manufacturer (OEM)	Great Wall
Series	ROG-Loki
Model Number	
Serial Number	
DUT Notes	

DUT SPECIFICATIONS							
Rated Voltage (Vrms)	100-240						
Rated Current (Arms)	15-7.5						
Rated Frequency (Hz)	47-63						
Rated Power (W)	1200						
Туре	SFX-L						
Cooling	120mm Double Ball Bearing Fan (HA1215H12SB-Z)						
Semi-Passive Operation	/						
Cable Design	Fully Modular						

TEST EQUIPMENT	
Electronic Loads	Chroma 63601-5 x2 Chroma 63600-2 63640-80-80 x10 63610-80-20
AC Sources	Chroma 6530, APM SP300VAC4000W-P
Power Analyzers	RS HMC8015, N4L PPA1530, N4L PPA5530
Oscilloscopes	Picoscope 4444, Rigol DS7014, Siglent SDS2104X PLUS
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Temperature Logger	Picoscope TC-08
Tachometer	UNI-T UT372
Multimeters	Keysight 34465A, Keithley 2015 - THD
UPS	FSP Champ Tower 3kVA, CyberPower OLS3000E 3kVA
Isolation Transformer	4kVA

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RESULTS	
Temperature Range (°C /°F)	30-32 / 86-89.6
ErP Lot 3/6 Ready	/
(EU) No 617/2013 Compliance	✓
ALPM (Alternative Low Power Mode) compatible	✓
ATX v3.0 PSU Power Excursion	/

115V	
Average Efficiency	91.759%
Efficiency With 10W (≤500W) or 2% (>500W)	78.675
Average Efficiency 5VSB	85.762%
Standby Power Consumption (W)	0.0533000
Average PF	0.982
Avg Noise Output	34.14 dB(A)
Efficiency Rating (ETA)	TITANIUM
Noise Rating (LAMBDA)	Standard++

POWER SPECIFICATIONS							
Rail	3.3V	5V	12V	5VSB	-12V		
May Daylor	Amps	20	20	100	3	0.8	
Max. Power	Watts	110		1200	15	9.6	
Total Max. Power (W)		1200					

HOLD-UP TIME & POWER OK SIGNAL (230V)					
Hold-Up Time (ms)	19.7				
AC Loss to PWR_OK Hold Up Time (ms)	18.1				
PWR_OK Inactive to DC Loss Delay (ms)	1.6				

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CABLES AND CONNECTORS								
Modular Cables								
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors				
ATX connector 20+4 pin (450mm)	1	1	16-20AWG	No				
4+4 pin EPS12V (550mm)	2	2	16-18AWG	No				
12+4 pin PCle (450mm) (600W)	2	2	16-24AWG	No				
2x 6+2 pin PCle (450mm)	2	4	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 (800mm)	1	1	24AWG	-				

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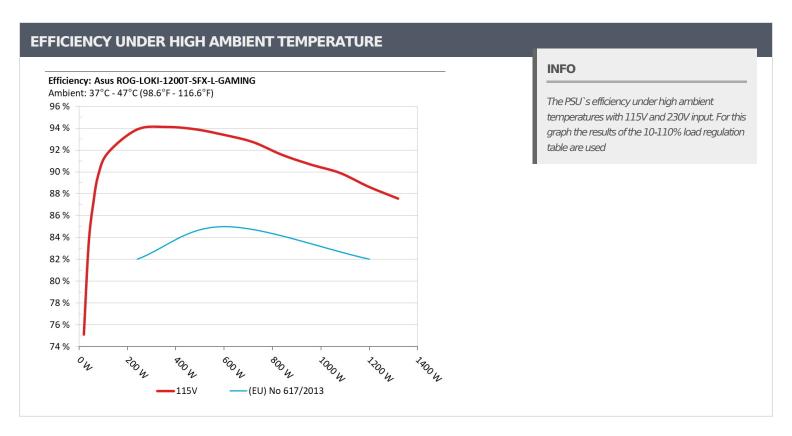
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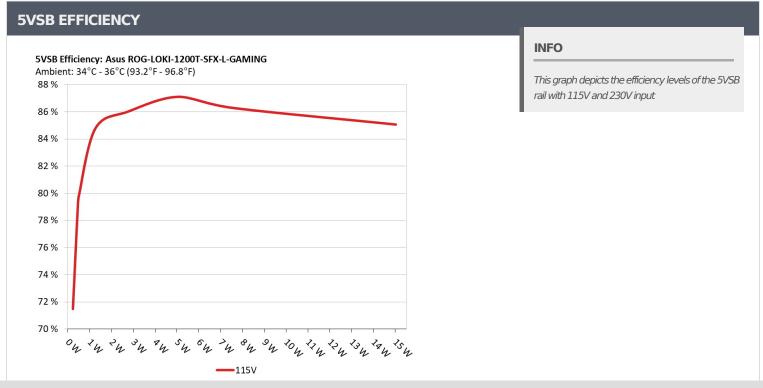
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		P LOT 3/6 & CEC)		
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227W	71.4050/	0.032 114.92V 0.057 114.91V 0.253 114.91V 0.336 114.91V 0.395
1	5.05V	0.318W	71.495%	114.92V
2	0.09A	0.454W	70.0040/	114.92V 0.057 114.91V 0.253 114.91V 0.336 114.91V 0.395 114.91V
2	5.049V	0.575W	79.084%	
2	0.55A	2.773W	05.0240/	0.253 114.91V
3	5.043V	3.223W	86.024%	
4	1A	5.036W	07.0000/	114.91V 0.336
4	5.036V	5.782W	87.098%	114.91V
_	1.5A	7.543W	05.0000/	0.395
5	5.029V	8.742W	86.283%	114.91V 0.395
6	ЗА	15.017W	05.000/	0.467
6	5.006V	17.654W	85.06%	114.9V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)

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115V

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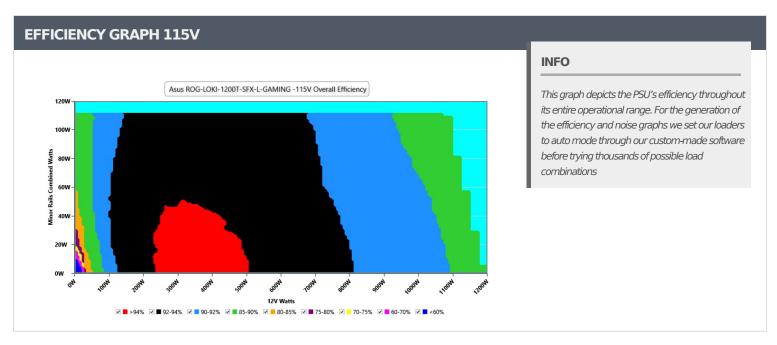
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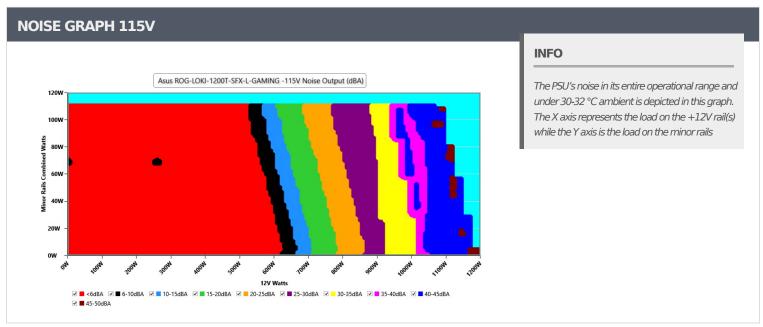
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VAMPIRE POWER -115V											
Detailed Results											
Average Min Limit Min Max Limit Max Resu											
Mains Voltage RMS:	114.92 V	114.82 V	113.85 V	115.00 V	116.15 V	PASS					
Mains Frequency:	60.00 Hz	59.99 Hz	59.40 Hz	60.03 Hz	60.60 Hz	PASS					
Mains Voltage CF:	1.421	1.419	1.340	1.423	1.490	PASS					
Mains Voltage THD:	0.31 %	0.23 %	N/A	0.40 %	2.00 %	PASS					
Real Power:	0.053 W	0.032 W	N/A	0.076 W	N/A	N/A					
Apparent Power:	10.463 W	10.437 W	N/A	10.499 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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Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts		
100/	8.214A	1.984A	1.988A	0.994A	119.999	01.7460/	0		44.31°C	0.951		
10%	11.980V	5.04V	3.321V	5.028V	130.795	91.746%	0	<6.0	40.1°C	114.87		
200/	17.455A	2.977A	2.983A	1.195A	239.952	02.0640/	0	-0.0	45.31°C	0.965		
20%	11.977V	5.038V	3.318V	5.019V	255.638	93.864%	0	<6.0	40.69°C	114.83		
200/	26.986A	3.475A	3.482A	1.397A	359.166	0.4.0000/	0	.00	46.39°C	0.98		
30%	11.974V	5.037V	3.317V	5.01V	381.697	94.098%	0	<6.0	41.33°C	114.79		
400/	36.620A	3.972A	3.982A	1.6A	479.533	02.00.40/	0		47.33°C	0.988		
40%	11.970V	5.036V	3.315V	5.001V	510.718	93.894%	0	<6.0	41.76°C	114.75		
50 0/	45.863A	4.968A	4.981A	1.803A	599.307	02.2700/	F2.4	6.0	42.02°C	0.991		
50%	11.966V	5.033V	3.313V	4.992V	641.806	93.378%	514	<6.0	48.07°C	114.71		
600/	55.172A	5.964A	5.981A	2A	719.788	00.71.60/	007	140	42.92°C	0.993		
60%	11.963V	5.03V	3.311V	4.983V	776.33	92.716%	807	14.2	49.51°C	114.66		
700/	64.421A	6.962A	6.983A	2.212A	839.568	01.5520/	53% 1032	1022	/ 1022	22.4	43.23°C	0.994
70%	11.960V	5.028V	3.309V	4.973V	917.034	91.553%		22.4	50.26°C	114.61		
000/	73.742A	7.962A	7.986A	2.316A	959.565	00.0520/	1644	26.7	43.69°C	0.995		
80%	11.956V	5.025V	3.306V	4.965V	1058.509	90.653%		36.7	52.01°C	114.56		
000/	83.380A	8.459A	8.474A	2.42A	1079.297	00.0000/	2025	2025	42.0	44.56°C	0.996	
90%	11.955V	5.023V	3.304V	4.958V	1200.59	89.898%	2035	42.9	53.63°C	114.53		
1000/	92.849A	8.961A	8.994A	3.035A	1199.356	00.630/	2.466	40.5	45.24°C	0.996		
100%	11.951V	5.021V	3.302V	4.942V	1353.355	88.62%	2466	49.5	55.28°C	114.47		
1100/	102.250A	9.962A	10.091A	3.04A	1319.964	07.550/	2422	40.2	46.65°C	0.996		
110%	11.948V	5.019V	3.3V	4.935V	1507.69	87.55%	2433	49.3	57.58°C	114.41		
CL 1	0.115A	13.172A	13.217A	0A	111.281	07.0750/	F00	.00	40.32°C	0.951		
CL1	11.981V	5.025V	3.307V	5.043V	127.51	87.275%	590	<6.0	45.76°C	114.87		
CLO	0.115A	19.889A	0A	0A	101.338	OF EC70/	F00	-6.0	40.44°C	0.952		
CL2	11.981V	5.026V	3.317V	5.044V	118.432	85.567%	590	<6.0	47.54°C	114.88		
CI 2	0.115A	0A	19.961A	0A	67.392	01.430/	F00	-C O	40.16°C	0.927		
CL3	11.982V	5.04V	3.307V	5.044V	82.779	81.41%	590	<6.0	49.24°C	114.89		
Cl 4	100.386A	0A	0A	0A	1199.93	00.500/	2244	45.0	45.58°C	0.996		
CL4	11.953V	5.036V	3.315V	4.993V	1339.818	89.56%	2244	45.9	56.56°C	114.48		

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20-80W LOAD TESTS 115V										
Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20144	1.240A	0.496A	0.497A	0.198A	20.006	75.109% 0	0		39.68°C	0.773
20W	11.984V	5.04V	3.323V	5.044V	26.637		0	<6.0	36.62°C	114.91V
40)44	2.728A	0.694A	0.695A	0.297A	40.005		83.454% 0	<6.0	40.22°C	0.877
40W	11.983V	5.04V	3.322V	5.042V	47.935	83.454%			36.91°C	114.9V
COM	4.218A	0.893A	0.894A	0.397A	60.005	07.2660/	•		42.1°C	0.911
60W	11.982V	5.04V	3.322V	5.04V	68.765	87.266%	0	<6.0	38.28°C	114.89V
00147	5.703A	1.091A	1.093A	0.496A	79.962		•	<6.0	43.29°C	0.938
80W	11.981V	5.04V	3.322V	5.037V	89.108	89.736%	0		39.3°C	114.89V

RIPPLE MEASUREMENTS 115V						
Test	12V	5V	3.3V	5VSB	Pass/Fail	
10% Load	12.74mV	9.25mV	11.05mV	5.01mV	Pass	
20% Load	12.48mV	9.66mV	11.66mV	5.27mV	Pass	
30% Load	13.66mV	10.88mV	11.92mV	5.37mV	Pass	
40% Load	16.22mV	14.56mV	14.12mV	5.62mV	Pass	
50% Load	18.26mV	12.88mV	14.27mV	5.98mV	Pass	
60% Load	21.08mV	13.64mV	14.99mV	6.50mV	Pass	
70% Load	23.33mV	16.91mV	16.52mV	6.96mV	Pass	
80% Load	25.84mV	19.57mV	21.89mV	7.16mV	Pass	
90% Load	27.93mV	18.09mV	18.77mV	7.72mV	Pass	
100% Load	35.05mV	18.88mV	22.11mV	9.65mV	Pass	
110% Load	39.13mV	18.87mV	23.10mV	10.08mV	Pass	
Crossload1	20.35mV	13.53mV	13.96mV	17.37mV	Pass	
Crossload2	16.32mV	18.85mV	10.90mV	17.24mV	Pass	
Crossload3	17.04mV	12.01mV	14.48mV	16.42mV	Pass	
Crossload4	35.05mV	16.11mV	21.86mV	21.43mV	Pass	

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CERTIFICATIONS 115V







Aristeidis Bitziopoulos Lab Director

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