

Anex

Cooler Master V1100 SFX Platinum

Lab ID#: CM11002109
 Receipt Date: Dec 16, 2022
 Test Date: Jan 10, 2023

Report: 23PS2109A
 Report Date: Jan 10, 2023

DUT INFORMATION	
Brand	Cooler Master
Manufacturer (OEM)	Sysgration
Series	V SFX Series
Model Number	MPZ-B001-SFAP
Serial Number	
DUT Notes	

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	14-6.5
Rated Frequency (Hz)	50-60
Rated Power (W)	1100
Type	SFX
Cooling	92mm Fluid Dynamic Bearing Fan (HA9215SH12FD-F00)
Semi-Passive Operation	X
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 3.0 Ready	✓

115V

Average Efficiency	89.337%
Efficiency With 10W (≤500W) or 2% (>500W)	61.846
Average Efficiency 5VSB	82.971%
Standby Power Consumption (W)	0.0876000
Average PF	0.977
Avg Noise Output	29.03 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A-

230V

Average Efficiency	91.962%
Average Efficiency 5VSB	82.297%
Standby Power Consumption (W)	0.2042000
Average PF	0.946
Avg Noise Output	28.17 dB(A)
Efficiency Rating (ETA)	SILVER
Noise Rating (LAMBDA)	A-

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	91.6	3	0.3
	Watts	120		1099.2	15	3.6
Total Max. Power (W)		1100				

HOLD-UP TIME & POWER OK SIGNAL (230V)

Hold-Up Time (ms)	15.2
AC Loss to PWR_OK Hold Up Time (ms)	13.2
PWR_OK Inactive to DC Loss Delay (ms)	2

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (300mm)	1	1	18AWG	No
8 pin EPS12V (450mm)	1	1	16AWG	No
4+4 pin EPS12V (450mm)	1	1	16AWG	No
6+2 pin PCIe (400mm)	3	3	16-18AWG	No
12+4 pin PCIe (400mm) (600W)	1	1	16-28AWG	No
SATA (100mm+150mm+150mm+150mm)	2	8	18AWG	No
4-pin Molex (100mm+120mm+120mm+120mm)	1	4	18AWG	No
AC Power Cord (1360mm) - C13 coupler	1	1	18AWG	-

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General Data	
Manufacturer (ODM)	Sysgration
PCB Type	Double Sided
Primary Side	
Transient Filter	4x Y caps, 3x X caps, 2x CM chokes, 1x DM choke, 1x MOV
Inrush Protection	NTC Thermistor & Relay
Bridge Rectifier(s)	1x Vishay GBUE2560 (600V, 25A @ 140°C)
APFC MOSFETs	no info
APFC Boost Diode	no info
Bulk Cap(s)	1x TDK EPCOS (450V, 800uF, 2,000h @ 105°C, B43647)
Main Switchers	4x Infineon IPL60R095CFD7 (600V, 16A @ 100°C, Rds(on): 0.095Ohm)
Driver ICs	2x Infineon 2ED21814S06FJ
APFC Controller	Champion CU6510VC
Resonant Controller	Infineon ICE2HS01G
Topology	Primary side: APFC, Full-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	
+12V MOSFETs	10x Infineon BSC007N04LS6 (40V, 269A @ 100°C, Rds(on): 0.7mOhm)
5V & 3.3V	DC-DC Converters: 6x Infineon BSC0901NS (30V, 94A @ 100°C, Rds(on): 2.4mOhm) PWM Controller(s): 2x ON Semiconductor NCP1589A
Driver IC	Infineon 2EDN7524AF
Digital Isolator	Novosense NSi824x
Filtering Capacitors	Electrolytic: 3x Rubycon (4-10,000h @ 105°C, YXJ) Polymer: 10x United Chemi-Con, 1x NIC, 4x Unicon
Supervisor IC	Weltrend WT7502R (OVP, UVP, SCP, PG)
Fan Controller	APW9010
Fan Model	Hong Hua HA9215SH12FD-F00 (92mm, 12V, 0.46A, Fluid Dynamic Bearing Fan)
5VSB Circuit	
Rectifier	1x Infineon BSC0702LS FET (60V, 84A @ 100°C, Rds(on): 2.7mOhm)
Standby PWM Controller	Power Integrations INN3165C

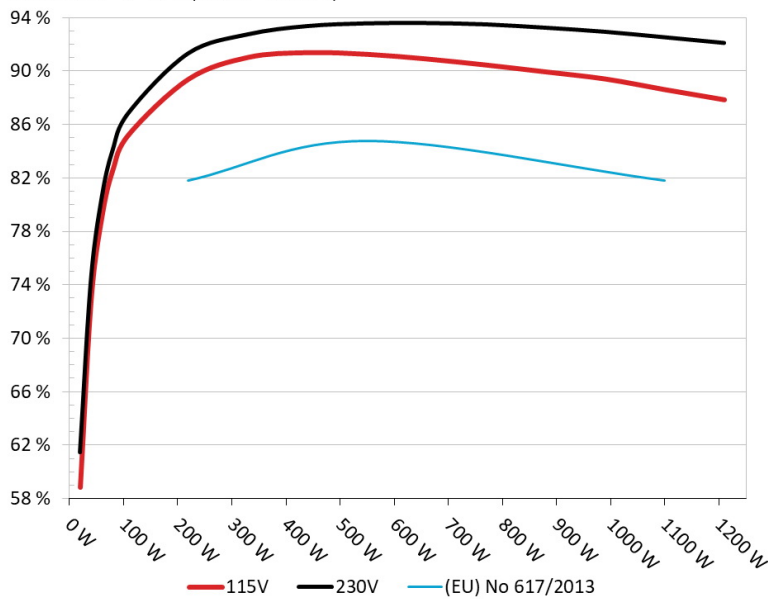
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EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

Efficiency: Cooler Master V1100 SFX Platinum

Ambient: 37°C - 47°C (98.6°F - 116.6°F)



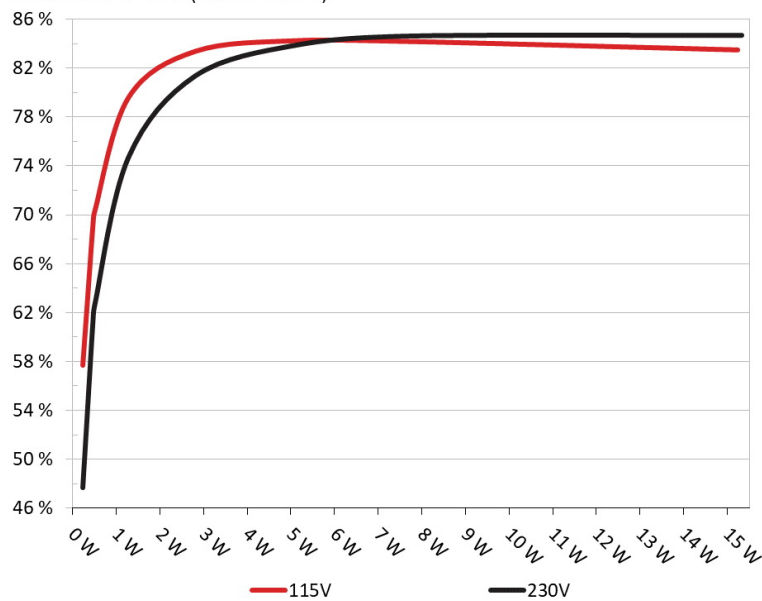
INFO

The PSU's efficiency under high ambient temperatures with 115V and 230V input. For this graph the results of the 10-110% load regulation table are used

5VSB EFFICIENCY

5VSB Efficiency: Cooler Master V1100 SFX Platinum

Ambient: 34°C - 36°C (93.2°F - 96.8°F)



INFO

This graph depicts the efficiency levels of the 5VSB rail with 115V and 230V input

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5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.229W	57.704%	0.026
	5.084V	0.397W		115.13V
2	0.09A	0.458W	69.052%	0.044
	5.085V	0.663W		115.13V
3	0.55A	2.808W	83.383%	0.2
	5.105V	3.368W		115.14V
4	1A	5.122W	84.25%	0.31
	5.12V	6.079W		115.14V
5	1.5A	7.686W	84.183%	0.391
	5.123V	9.13W		115.14V
6	3A	15.234W	83.496%	0.495
	5.078V	18.246W		115.13V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.229W	47.647%	0.01
	5.1V	0.482W		230.34V
2	0.09A	0.458W	61.076%	0.015
	5.085V	0.751W		230.34V
3	0.55A	2.81W	81.339%	0.067
	5.107V	3.454W		230.35V
4	1A	5.125W	83.855%	0.116
	5.124V	6.112W		230.35V
5	1.5A	7.709W	84.592%	0.165
	5.138V	9.115W		230.35V
6	3A	15.338W	84.656%	0.28
	5.112V	18.117W		230.36V

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115V

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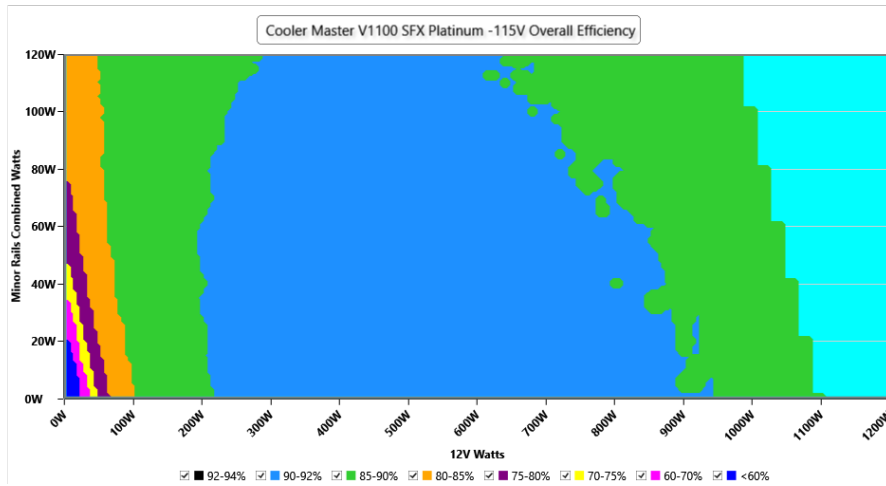
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PAGE 7/17

Anex

Cooler Master V1100 SFX Platinum

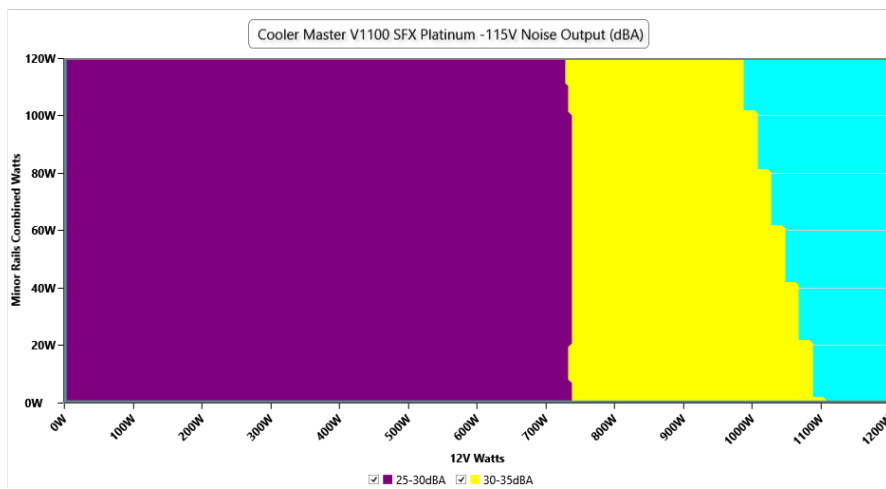
EFFICIENCY GRAPH 115V



INFO

This graph depicts the PSU's efficiency throughout its entire operational range. For the generation of the efficiency and noise graphs we set our loaders to auto mode through our custom-made software before trying thousands of possible load combinations

NOISE GRAPH 115V



INFO

The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -115V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.15 V	115.13 V	113.85 V	115.17 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	60.00 Hz	59.40 Hz	60.01 Hz	60.60 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.13 %	0.11 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.088 W	0.027 W	N/A	0.119 W	N/A	N/A
Apparent Power:	15.093 W	15.087 W	N/A	15.097 W	N/A	N/A
Power Factor:	0.008	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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10-110% 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
10%	7.312A	1.981A	1.953A	0.978A	109.968	85.446%	1581	25.8	40.09°C	0.887
	12.086V	5.048V	3.378V	5.113V	128.696				44.41°C	115.11V
20%	15.648A	2.977A	2.936A	1.173A	219.92	89.565%	1585	25.9	40.87°C	0.929
	12.080V	5.039V	3.371V	5.114V	245.521				45.57°C	115.08V
30%	24.345A	3.479A	3.431A	1.369A	329.965	91.194%	1598	26.2	41.12°C	0.987
	12.072V	5.03V	3.366V	5.113V	361.83				46.28°C	115.04V
40%	33.009A	3.983A	3.928A	1.566A	439.481	91.545%	1661	27.7	41.66°C	0.991
	12.066V	5.021V	3.36V	5.108V	480.099				47.25°C	115.01V
50%	41.393A	4.99A	4.92A	1.764A	549.617	91.425%	1772	29.4	42.55°C	0.993
	12.058V	5.01V	3.353V	5.102V	601.18				48.69°C	114.98V
60%	49.786A	6.002A	5.918A	1.964A	659.788	91.074%	1878	31.2	42.89°C	0.994
	12.051V	4.999V	3.346V	5.093V	724.417				49.51°C	114.95V
70%	58.182A	7.02A	6.921A	2.164A	769.862	90.619%	1865	31.0	43.3°C	0.995
	12.044V	4.987V	3.338V	5.084V	849.583				50.34°C	114.93V
80%	66.594A	8.002A	7.926A	2.266A	879.235	90.11%	1946	32.6	44.03°C	0.995
	12.036V	4.975V	3.33V	5.075V	975.652				52.03°C	114.9V
90%	75.415A	8.557A	8.422A	2.367A	989.629	89.578%	2050	33.9	44.38°C	0.996
	12.029V	4.966V	3.324V	5.07V	1104.851				53.48°C	114.87V
100%	83.981A	9.082A	8.953A	2.973A	1099.275	88.782%	2719	41.8	45.56°C	0.996
	12.021V	4.954V	3.316V	5.046V	1238.187				55.63°C	114.84V
110%	92.486A	10.115A	10.067A	2.974A	1209.514	88.022%	2774	42.2	47.05°C	0.993
	12.015V	4.943V	3.307V	5.044V	1374.087				57.98°C	114.8V
CL1	0.115A	14.483A	14.325A	0A	121.275	82.375%	1575	25.7	38.75°C	0.897
	12.080V	4.984V	3.329V	5.059V	147.224				43.89°C	115.13V
CL2	0.115A	20.108A	0A	0A	101.386	80.823%	1597	26.1	42.1°C	0.886
	12.087V	4.973V	3.373V	5.071V	125.439				49.48°C	115.13V
CL3	0.115A	0A	19.827A	0A	67.384	74.92%	1695	28.3	42.64°C	0.861
	12.082V	5.048V	3.328V	5.056V	89.936				51.92°C	115.14V
CL4	91.461A	0.001A	0A	0A	1100.041	89.172%	2679	41.4	45.95°C	0.996
	12.027V	5.004V	3.355V	5.031V	1233.724				56.81°C	114.86V

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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
20W	1.226A	0.494A	0.487A	0.197A	19.984	59.042%	1575	25.7	37.02°C	0.736
	12.093V	5.057V	3.385V	5.086V	33.859				40.09°C	115.11V
40W	2.702A	0.692A	0.683A	0.295A	39.984	73.038%	1578	25.8	37.83°C	0.808
	12.092V	5.055V	3.384V	5.089V	54.737				41.12°C	115.11V
60W	4.178A	0.89A	0.877A	0.393A	59.983	79.288%	1579	25.8	38.12°C	0.843
	12.091V	5.054V	3.383V	5.093V	75.655				41.86°C	115.11V
80W	5.649A	1.089A	1.073A	0.49A	79.921	82.754%	1580	25.8	39.99°C	0.865
	12.089V	5.052V	3.382V	5.097V	96.576				43.91°C	115.11V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	25.85mV	6.13mV	7.42mV	10.55mV	Pass
20% Load	19.05mV	7.67mV	8.49mV	12.85mV	Pass
30% Load	25.21mV	8.59mV	8.60mV	15.04mV	Pass
40% Load	30.68mV	9.72mV	9.11mV	14.38mV	Pass
50% Load	37.22mV	11.71mV	10.85mV	16.88mV	Pass
60% Load	43.81mV	13.30mV	11.62mV	18.00mV	Pass
70% Load	45.90mV	14.47mV	13.82mV	20.75mV	Pass
80% Load	44.83mV	17.44mV	15.71mV	18.30mV	Pass
90% Load	60.99mV	19.94mV	14.74mV	19.07mV	Pass
100% Load	82.93mV	23.76mV	15.52mV	21.90mV	Pass
110% Load	89.74mV	26.54mV	14.90mV	24.38mV	Pass
Crossload1	25.64mV	10.89mV	15.58mV	8.25mV	Pass
Crossload2	22.12mV	7.00mV	14.12mV	6.68mV	Pass
Crossload3	14.40mV	10.33mV	9.01mV	6.78mV	Pass
Crossload4	80.14mV	18.61mV	8.55mV	12.09mV	Pass

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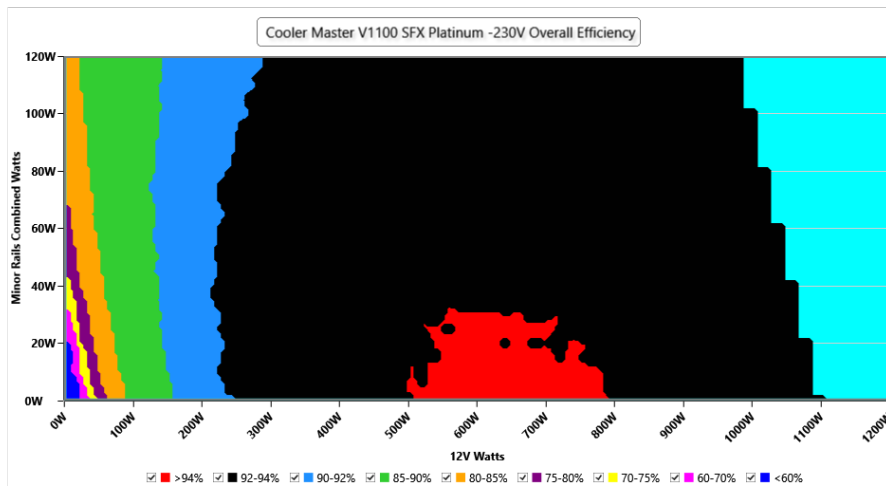
230V

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PAGE 12/17

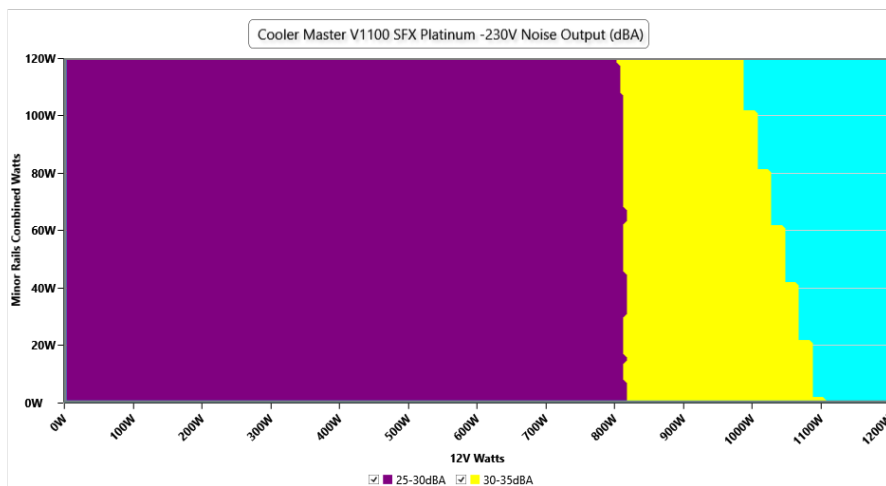
EFFICIENCY GRAPH 230V



INFO

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NOISE GRAPH 230V



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The PSU's noise in its entire operational range and under 30-32 °C ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.37 V	230.34 V	227.70 V	230.38 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.00 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.416	1.490	PASS
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.204 W	0.184 W	N/A	0.222 W	N/A	N/A
Apparent Power:	50.380 W	50.373 W	N/A	50.395 W	N/A	N/A
Power Factor:	0.004	N/A	N/A	N/A	N/A	N/A

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10-110% LOAD TESTS 230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
10%	7.314A	1.981A	1.953A	0.978A	109.998	87.08%	1587	25.9	40.54°C	0.792
	12.086V	5.048V	3.378V	5.113V	126.324				44.85°C	230.34V
20%	15.652A	2.978A	2.937A	1.174A	219.959	91.517%	1590	26.0	40.75°C	0.879
	12.079V	5.038V	3.371V	5.114V	240.338				45.47°C	230.33V
30%	24.350A	3.481A	3.432A	1.369A	330.014	92.939%	1608	26.4	41.59°C	0.913
	12.072V	5.029V	3.366V	5.113V	355.079				46.84°C	230.32V
40%	33.024A	3.985A	3.928A	1.566A	439.652	93.559%	1668	27.8	41.69°C	0.973
	12.065V	5.02V	3.36V	5.109V	469.924				47.32°C	230.31V
50%	41.407A	4.992A	4.922A	1.765A	549.793	93.762%	1756	29.1	42.43°C	0.977
	12.058V	5.009V	3.353V	5.102V	586.369				48.45°C	230.3V
60%	49.802A	6.005A	5.92A	1.964A	659.946	93.787%	1802	30.0	42.96°C	0.981
	12.050V	4.997V	3.345V	5.094V	703.655				49.58°C	230.28V
70%	58.206A	7.023A	6.924A	2.164A	770.077	93.684%	1899	31.5	43.48°C	0.983
	12.043V	4.985V	3.336V	5.085V	821.993				50.55°C	230.27V
80%	66.626A	8.003A	7.928A	2.267A	879.474	93.438%	2309	37.1	43.8°C	0.985
	12.034V	4.974V	3.329V	5.075V	941.235				52.06°C	230.25V
90%	75.454A	8.563A	8.425A	2.368A	989.91	93.132%	2700	41.6	44.69°C	0.986
	12.026V	4.963V	3.323V	5.067V	1062.914				53.84°C	230.23V
100%	84.023A	9.086A	8.955A	2.974A	1099.534	92.724%	3060	45.8	45.73°C	0.986
	12.018V	4.953V	3.316V	5.044V	1185.856				55.77°C	230.21V
110%	92.547A	10.122A	10.068A	2.978A	1209.783	92.298%	3252	46.9	47.07°C	0.987
	12.010V	4.94V	3.307V	5.037V	1310.741				57.99°C	230.2V
CL1	0.115A	14.481A	14.319A	0A	121.278	83.876%	1668	27.8	40.25°C	0.816
	12.080V	4.985V	3.331V	5.058V	144.597				45.7°C	230.35V
CL2	0.115A	20.11A	0A	0A	101.383	82.264%	1630	27.0	39.94°C	0.789
	12.087V	4.972V	3.373V	5.071V	123.235				47.03°C	230.35V
CL3	0.115A	0A	19.83A	0A	67.384	76.213%	1664	27.8	40.55°C	0.721
	12.083V	5.047V	3.328V	5.056V	88.403				49.59°C	230.36V
CL4	91.446A	0.001A	0A	0A	1099.975	93.414%	1911	31.8	43.23°C	0.986
	12.028V	5.003V	3.354V	5.032V	1177.488				54.18°C	230.22V

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Anex

Cooler Master V1100 SFX Platinum

20-80W LOAD TESTS 230V

Test	12V	5V	3.3V	5VSB	DC/AC (Watts)	Efficiency	Fan Speed (RPM)	PSU Noise (dB[A])	Temps (In/Out)	PF/AC Volts
20W	1.228A	0.494A	0.487A	0.197A	19.994	61.643%	1580	25.8	37.09°C	0.425
	12.093V	5.057V	3.385V	5.086V	32.871				40.17°C	230.34V
40W	2.703A	0.692A	0.682A	0.295A	39.993	74.437%	1580	25.8	37.4°C	0.576
	12.091V	5.055V	3.384V	5.09V	53.728				40.75°C	230.34V
60W	4.179A	0.891A	0.878A	0.393A	59.992	80.671%	1585	25.9	38.87°C	0.671
	12.090V	5.054V	3.383V	5.093V	74.363				42.55°C	230.34V
80W	5.652A	1.089A	1.073A	0.491A	79.946	84.216%	1586	25.9	39.26°C	0.733
	12.089V	5.052V	3.382V	5.097V	94.919				43.09°C	230.34V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	27.33mV	5.88mV	7.37mV	9.74mV	Pass
20% Load	22.42mV	7.21mV	8.04mV	12.64mV	Pass
30% Load	23.22mV	8.39mV	8.34mV	13.97mV	Pass
40% Load	28.59mV	9.77mV	9.36mV	14.33mV	Pass
50% Load	33.74mV	11.46mV	10.34mV	17.13mV	Pass
60% Load	37.47mV	13.70mV	12.13mV	17.79mV	Pass
70% Load	40.18mV	14.73mV	13.25mV	19.02mV	Pass
80% Load	41.77mV	17.33mV	15.81mV	21.92mV	Pass
90% Load	46.84mV	19.89mV	17.55mV	18.50mV	Pass
100% Load	72.31mV	24.10mV	14.55mV	22.47mV	Pass
110% Load	81.72mV	26.09mV	13.51mV	23.56mV	Pass
Crossload1	25.89mV	11.88mV	16.12mV	7.78mV	Pass
Crossload2	24.88mV	7.21mV	14.64mV	6.48mV	Pass
Crossload3	14.61mV	9.82mV	8.75mV	6.27mV	Pass
Crossload4	71.63mV	18.54mV	8.70mV	11.44mV	Pass

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Anex

Cooler Master V1100 SFX Platinum



Top side

1100W		MODEL /				
		Switching Po				
AC INPUT	100-240V~, 14-6.5A, 50-60Hz					
交流輸入/交流輸入	200-240V~, 6.5A, 50-60Hz, For Korea Use Only					
	200-240V~, 6.5A, 50-60Hz, 适用于中国地区使用					
DC OUTPUT	+5V	+3.3V	+12V	-12V	+5VSB	
直流輸出/直流輸出	20A	20A	91.6A	0.3A	3A	
TOTAL POWER	120W		1099.2W	3.6W	15W	
總功率/总功率	1100W					
MADE IN TAIWAN, CHINA / 中國台灣製造 / 中国台湾制造 ■ Cooler Master Technology Inc. 製造商：酷碼科技股份有限公司 / 制造商：酷碼科技股份有限公司						

Power specifications label

CERTIFICATIONS 115V



CERTIFICATIONS 230V



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