Anex

Cooler Master V750i Gold

Lab ID#: CM75002167
Receipt Date: Mar 28, 2023
Test Date: Apr 5, 2023

Report: 23PS2167A
Report Date: Apr 5, 2023

DUT INFORMATION

Brand	Cooler Master
Manufacturer (OEM)	Chicony Power
Series	Vi Gold
Model Number	MPZ-7501-AFAG
Serial Number	
DUT Notes	

DUT SPECIFICATIONS

Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-6
Rated Frequency (Hz)	50-60
Rated Power (W)	750
Type	ATX12V
Cooling	135mm Fluid Dynamic Bearing Fan (YY14025M12B)
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	89.578%
Efficiency With 10W (≤500W) or 2% (>500W)	72.803
Average Efficiency 5VSB	82.168%
Standby Power Consumption (W)	0.0474000
Average PF	0.991
Avg Noise Output	22.80 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A

230V

Average Efficiency	91.487%
Average Efficiency 5VSB	81.523%
Standby Power Consumption (W)	0.1291000
Average PF	0.952
Avg Noise Output	22.82 dB(A)
Efficiency Rating (ETA)	PLATINUM
Noise Rating (LAMBDA)	A

POWER SPECIFICATIONS

Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	20	20	62.5	3	0.3
	Watts	120		750	15	3.6
Total Max. Power (W)		750				

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

Hold-Up Time (ms)	31.6
AC Loss to PWR_OK Hold Up Time (ms)	22.5
PWR_OK Inactive to DC Loss Delay (ms)	9.1

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CABLES AND CONNECTORS

Modular Cables

Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (650mm)	1	1	18-22AWG	No
4+4 pin EPS12V (650mm)	1	1	18AWG	No
8 pin EPS12V (650mm)	1	1	18AWG	No
6+2 pin PCIe (550mm)	3	3	16-18AWG	No
12+4 pin PCIe (650mm) (300W)	1	1	16-24AWG	No
SATA (500mm+120mm+120mm+120mm)	3	12	18AWG	No
4 pin Molex (400mm+120mm+120mm+120mm)	1	4	18AWG	No
Motherboard USB Cable (810mm)	1	1	24AWG	No
AC Power Cord (1400mm) - C13 coupler	1	1	14AWG	-

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General Data	-
Manufacturer (OEM)	Chicony Power
PCB Type	Double Sided
Primary Side	**-**
Transient Filter	4x Y caps, 2x X caps, 2x CM chokes, 1x MOV
Inrush Protection	1x NTC Thermistor JNR15S100L (10 Ohm) & Relay
Bridge Rectifier(s)	2x Diodes GBU15JL (600V, 15A @ 115°C)
APFC MOSFETs	2x Infineon IPP60R120P7 (600V, 16A @ 100°C, Rds(on): 0.120Ohm) & 1x Champion CM03X (reduce the no load consumption)
APFC Boost Diode	1x CREE C6D08065A (650V, 8A @ 155°C)
Bulk Cap(s)	1x Rubycon (450V, 680uF, 3,000h @ 105°C, MXK)
Main Switchers	2x Infineon IPA60R120P7 (600V, 16A @ 100°C, Rds(on): 0.120Ohm)
APFC Controller	Infineon ICE2PCS01G
Resonant Controller	MPS HR100A
Topology	Primary side: APFC, Half-Bridge & LLC converter Secondary side: Synchronous Rectification & DC-DC converters
Secondary Side	**-**
+12V MOSFETs	-
5V & 3.3V	DC-DC Converters: 4x Alpha & Omega AON6144 (40V, 89A @ 100°C, Rds(on): 2.4mOhm) PWM Controller(s): ANPEC APW7159C
Filtering Capacitors	Electrolytic:3x Nippon Chemi-Con (2-5,000h @ 105°C, KZE), 2x Nichicon (5-6,000h @ 105°C, HV), 1x Nichicon (2-4,000h @ 105°C, HD), 2x Rubycon (6-10,000h @ 105°C, ZLH) Polymer: 11x Nippon Chemi-Con, 7x FPCAP, 10x NIC, 2x Nichicon
Supervisor IC	Weltrend WT7502R
ARM Microcontroller	Nuvoton M032EC1AE (USB connectivity & Fan control)
Fan Model	Snowfan YY14025M12B (135mm, 12V, 0.40A, Fluid Dynamic Bearing Fan)
5VSB Circuit	**-**
Rectifier	STMicroelectronics STD4N80K5 FET(800V, 1.7A @ 100°C, Rds(on): 2.5Ohm) &1x Advanced Power AP6N6R5LMT-L FET (60V, 16.9A @ 70°C, Rds(on): 6.5mOhm)
Standby PWM Controller	OnSemiconductor NCP12400
-12V Circuit	**-**
Rectifier	UTC LM7912L (-12V, 1A)

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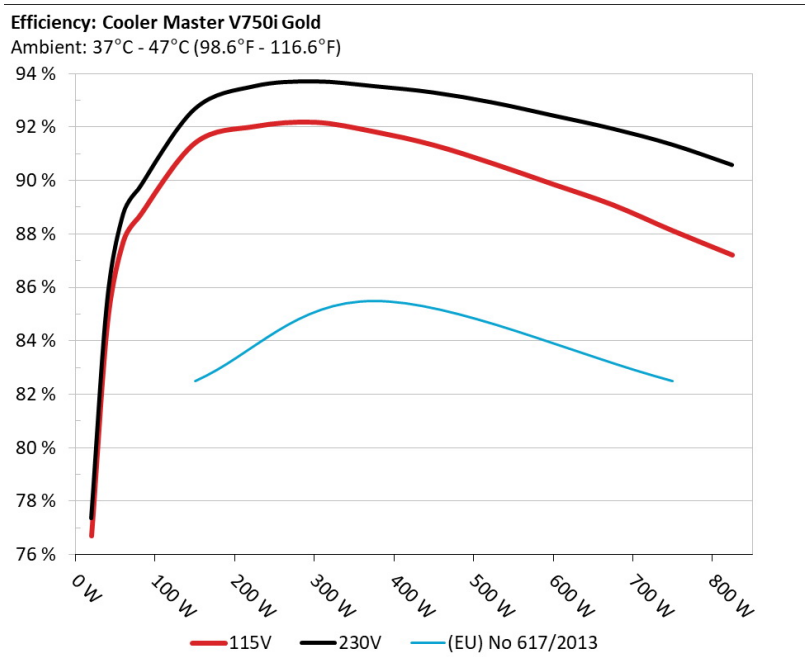
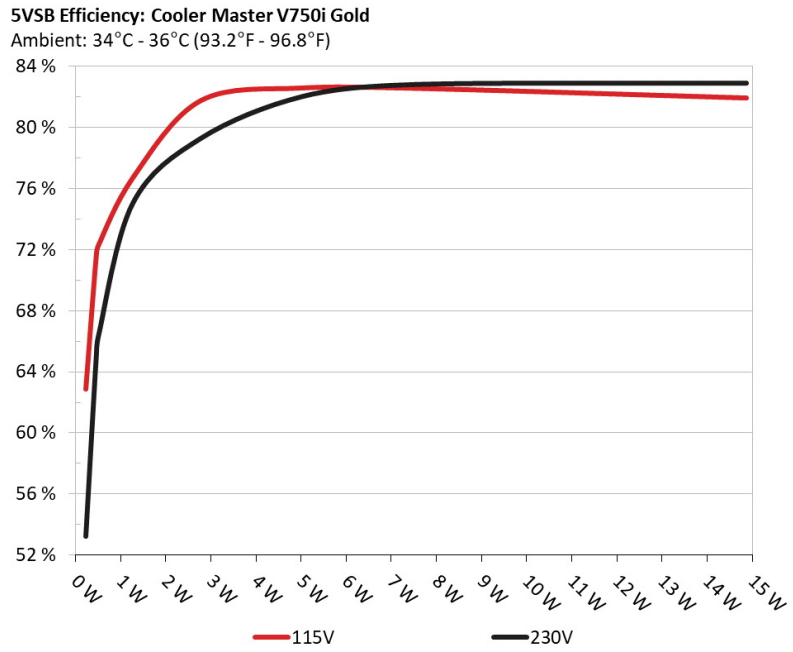
EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE



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



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	0.228W	63.362%	0.051
	5.075V	0.36W		115.16V
2	0.09A	0.457W	72.039%	0.088
	5.072V	0.634W		115.16V
3	0.55A	2.776W	82.259%	0.333
	5.045V	3.375W		115.16V
4	1A	5.027W	83.087%	0.43
	5.025V	6.05W		115.16V
5	1.5A	7.516W	83.066%	0.481
	5.01V	9.048W		115.16V
6	3A	14.877W	82.431%	0.533
	4.958V	18.049W		115.16V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.228W	53.716%	0.018
	5.074V	0.425W		230.4V
2	0.09A	0.457W	65.395%	0.03
	5.072V	0.699W		230.39V
3	0.55A	2.776W	79.775%	0.139
	5.046V	3.48W		230.39V
4	1A	5.026W	82.516%	0.219
	5.025V	6.091W		230.38V
5	1.5A	7.514W	83.304%	0.285
	5.008V	9.02W		230.37V
6	3A	14.877W	83.394%	0.389
	4.958V	17.84W		230.37V

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115V

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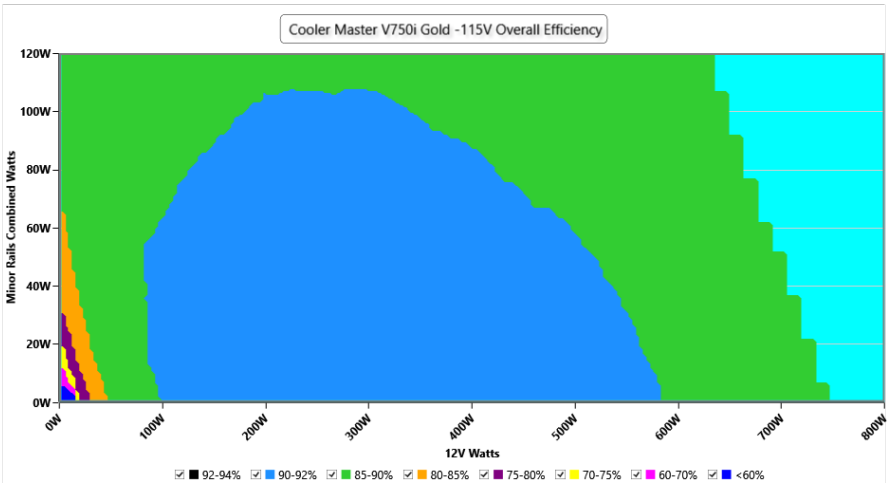
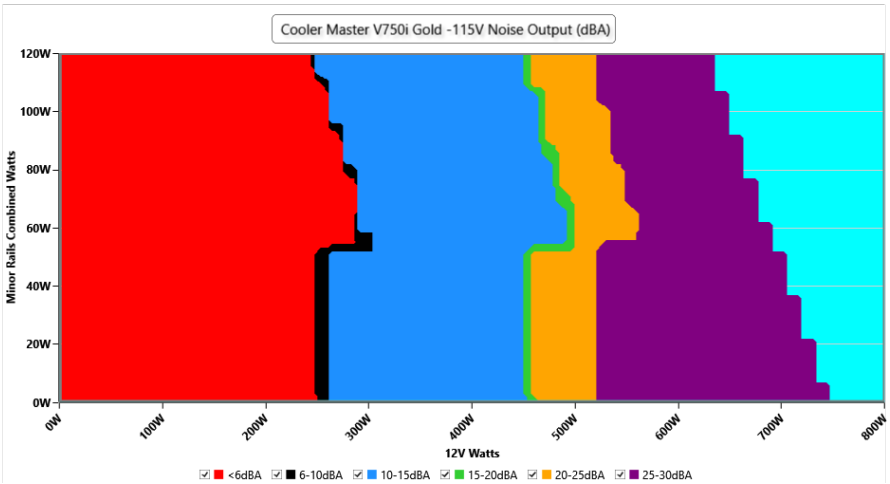
EFFICIENCY GRAPH 115V



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

Anex

Cooler Master V750i Gold

VAMPIRE POWER -115V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	115.12 V	115.11 V	113.85 V	115.15 V	116.15 V	PASS
Mains Frequency:	60.00 Hz	59.95 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 %	0.10 %	N/A	0.15 %	2.00 %	PASS
Real Power:	0.047 W	0.011 W	N/A	0.070 W	N/A	N/A
Apparent Power:	6.968 W	6.962 W	N/A	6.986 W	N/A	N/A
Power Factor:	0.009	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%	4.430A	1.982A	2.002A	0.996A	74.995	88.141%	0	<6.0	43.85°C	0.954
	12.052V	5.047V	3.296V	5.022V	85.086				39.69°C	115.15V
20%	9.884A	2.975A	3.005A	1.198A	149.946	90.891%	0	<6.0	44.77°C	0.985
	12.045V	5.042V	3.294V	5.008V	164.975				40.19°C	115.13V
30%	15.690A	3.474A	3.508A	1.402A	224.948	91.509%	0	<6.0	46.57°C	0.991
	12.039V	5.038V	3.293V	4.994V	245.817				41.56°C	115.11V
40%	21.510A	3.973A	4.011A	1.606A	300.032	91.668%	0	<6.0	47.59°C	0.994
	12.033V	5.035V	3.291V	4.982V	327.305				41.97°C	115.09V
50%	26.938A	4.971A	5.017A	1.812A	374.495	91.316%	441	10.1	42.37°C	0.996
	12.027V	5.03V	3.289V	4.969V	410.104				48.31°C	115.07V
60%	32.410A	5.971A	6.024A	2A	449.332	90.815%	441	10.1	42.95°C	0.997
	12.021V	5.025V	3.287V	4.956V	494.779				49.39°C	115.05V
70%	37.891A	6.972A	7.031A	2.226A	524.373	90.119%	442	10.1	43.02°C	0.997
	12.015V	5.021V	3.286V	4.942V	581.86				50.04°C	115.04V
80%	43.442A	7.974A	8.037A	2.332A	599.584	89.349%	802	24.0	43.28°C	0.997
	12.009V	5.017V	3.284V	4.932V	671.073				51.38°C	115.02V
90%	49.332A	8.477A	8.528A	2.437A	674.611	88.575%	992	30.2	44.87°C	0.998
	12.003V	5.013V	3.282V	4.924V	761.626				53.88°C	115V
100%	55.031A	8.984A	9.051A	3.064A	749.864	87.608%	1469	41.3	45.17°C	0.998
	11.996V	5.009V	3.28V	4.896V	855.928				55.25°C	114.98V
110%	60.599A	9.989A	10.152A	3.068A	824.858	86.698%	1475	41.4	47.3°C	0.998
	11.990V	5.005V	3.279V	4.89V	951.428				58.22°C	114.96V
CL1	0.116A	14.346A	14.506A	0A	121.283	85.227%	0	<6.0	51.16°C	0.979
	12.041V	5.032V	3.288V	5.041V	142.308				45.66°C	115.13V
CL2	0.116A	19.84A	0A	0A	101.386	84.442%	0	<6.0	48.84°C	0.97
	12.048V	5.04V	3.291V	5.066V	120.064				41.56°C	115.15V
CL3	0.116A	0A	20.019A	0A	67.38	78.92%	458	10.9	42.18°C	0.955
	12.044V	5.048V	3.296V	5.042V	85.377				51.19°C	115.15V
CL4	62.457A	0A	0A	0A	749.609	88.217%	997	30.3	45.83°C	0.998
	12.002V	5.027V	3.291V	5.043V	849.741				56.79°C	114.98V

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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	1.232A	0.495A	0.5A	0.197A	20	76.186%	0	<6.0	40.39°C	0.823
	12.059V	5.053V	3.3V	5.067V	26.251				37.34°C	115.16V
40W	2.711A	0.693A	0.7A	0.296A	39.996	84.157%	0	<6.0	41.27°C	0.913
	12.057V	5.053V	3.3V	5.061V	47.526				37.99°C	115.15V
60W	4.191A	0.891A	0.9A	0.396A	59.993	87.214%	0	<6.0	42.36°C	0.943
	12.055V	5.052V	3.3V	5.056V	68.787				38.59°C	115.15V
80W	5.668A	1.089A	1.1A	0.495A	79.95	88.883%	0	<6.0	43.42°C	0.957
	12.053V	5.051V	3.299V	5.049V	89.947				39.44°C	115.15V

RIPPLE MEASUREMENTS 115V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	7.86mV	6.24mV	10.13mV	10.40mV	Pass
20% Load	8.37mV	7.47mV	11.92mV	11.62mV	Pass
30% Load	9.65mV	7.77mV	12.69mV	16.36mV	Pass
40% Load	9.96mV	8.13mV	13.05mV	33.44mV	Pass
50% Load	11.34mV	8.90mV	14.89mV	48.33mV	Pass
60% Load	12.05mV	10.07mV	14.79mV	43.08mV	Pass
70% Load	13.18mV	11.25mV	16.22mV	38.13mV	Pass
80% Load	14.81mV	12.84mV	18.84mV	38.54mV	Pass
90% Load	15.94mV	14.06mV	21.39mV	34.72mV	Pass
100% Load	23.51mV	18.18mV	21.88mV	27.61mV	Pass
110% Load	25.54mV	19.17mV	22.74mV	25.68mV	Pass
Crossload1	16.04mV	19.83mV	21.56mV	20.19mV	Pass
Crossload2	11.75mV	12.68mV	12.23mV	18.45mV	Pass
Crossload3	9.55mV	18.46mV	22.88mV	17.64mV	Pass
Crossload4	22.78mV	9.86mV	13.87mV	22.40mV	Pass

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230V

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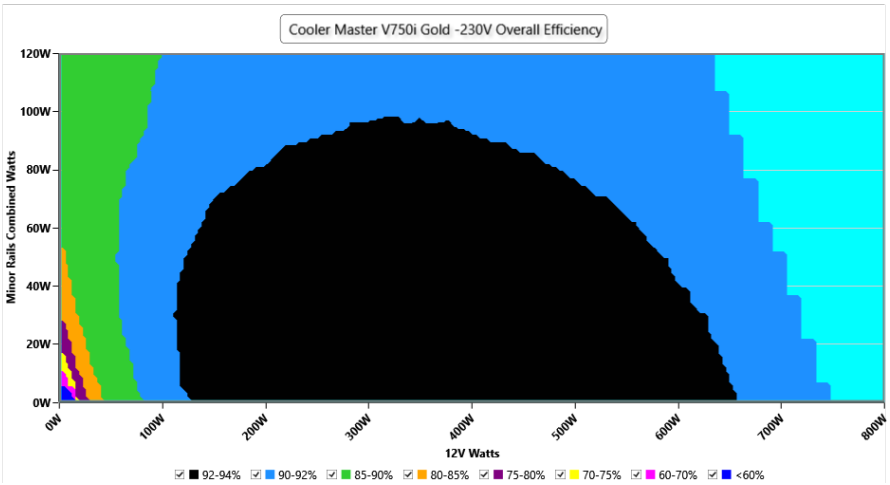
EFFICIENCY GRAPH 230V



INFO

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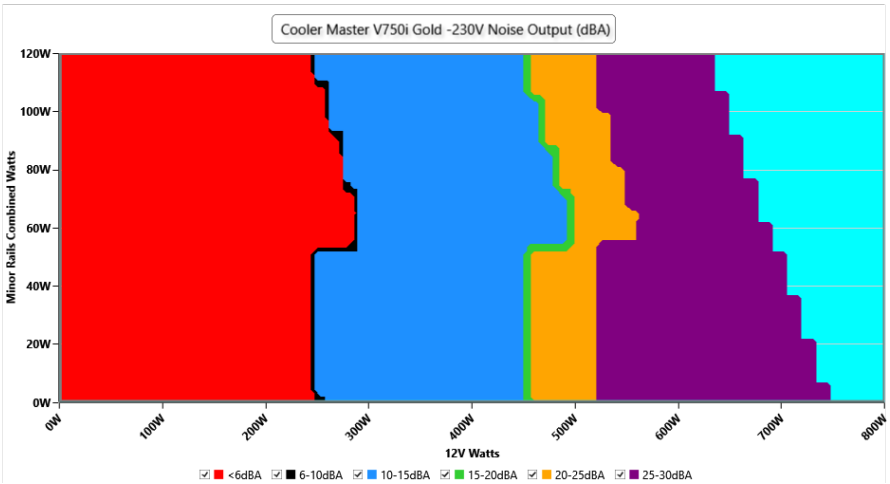
NOISE GRAPH 230V



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 -230V

Detailed Results

	Average	Min	Limit Min	Max	Limit Max	Result
Mains Voltage RMS:	230.25 V	230.22 V	227.70 V	230.31 V	232.30 V	PASS
Mains Frequency:	50.00 Hz	50.00 Hz	49.50 Hz	50.01 Hz	50.50 Hz	PASS
Mains Voltage CF:	1.415	1.415	1.340	1.415	1.490	PASS
Mains Voltage THD:	0.14 %	0.13 %	N/A	0.16 %	2.00 %	PASS
Real Power:	0.129 W	0.117 W	N/A	0.141 W	N/A	N/A
Apparent Power:	23.260 W	23.238 W	N/A	23.277 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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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%	4.430A	1.982A	2.002A	0.996A	74.988	89.211%	0	<6.0	43.86°C	0.792
	12.053V	5.045V	3.296V	5.022V	84.058				39.57°C	230.33V
20%	9.880A	2.976A	3.005A	1.198A	149.919	92.187%	0	<6.0	45.27°C	0.901
	12.046V	5.041V	3.294V	5.008V	162.626				40.45°C	230.33V
30%	15.686A	3.474A	3.508A	1.401A	224.91	93.042%	0	<6.0	46.35°C	0.939
	12.040V	5.037V	3.292V	4.995V	241.733				41.02°C	230.32V
40%	21.504A	3.973A	4.01A	1.606A	299.991	93.223%	0	<6.0	48.26°C	0.959
	12.034V	5.034V	3.291V	4.983V	321.802				42.28°C	230.32V
50%	26.927A	4.971A	5.016A	1.811A	374.375	93.044%	440	10.1	42.65°C	0.972
	12.028V	5.029V	3.289V	4.97V	402.366				49.11°C	230.31V
60%	32.399A	5.971A	6.023A	2A	449.221	92.807%	441	10.1	43.32°C	0.98
	12.022V	5.025V	3.287V	4.958V	484.042				50.39°C	230.3V
70%	37.880A	6.972A	7.031A	2.225A	524.255	92.43%	442	10.1	43.86°C	0.985
	12.016V	5.021V	3.285V	4.944V	567.192				51.41°C	230.29V
80%	43.431A	7.974A	8.037A	2.331A	599.478	91.946%	803	24.0	44.28°C	0.988
	12.009V	5.017V	3.284V	4.934V	651.984				52.45°C	230.28V
90%	49.322A	8.477A	8.529A	2.437A	674.513	91.451%	993	30.2	44.84°C	0.989
	12.003V	5.013V	3.282V	4.925V	737.569				53.92°C	230.27V
100%	55.022A	8.983A	9.051A	3.064A	749.743	90.851%	997	30.3	45.28°C	0.99
	11.996V	5.009V	3.28V	4.897V	825.246				55.37°C	230.26V
110%	60.595A	9.989A	10.153A	3.068A	824.779	90.091%	1482	41.6	47.06°C	0.991
	11.989V	5.005V	3.279V	4.89V	915.502				57.98°C	230.24V
CL1	0.116A	14.345A	14.505A	0A	121.278	86.477%	0	<6.0	43.33°C	0.882
	12.042V	5.033V	3.288V	5.041V	140.236				37.89°C	230.34V
CL2	0.115A	19.841A	0A	0A	101.382	85.581%	0	<6.0	42.21°C	0.858
	12.048V	5.04V	3.291V	5.066V	118.46				35.12°C	230.34V
CL3	0.115A	0A	20.021A	0A	67.377	79.967%	453	10.6	39.18°C	0.794
	12.044V	5.048V	3.296V	5.042V	84.257				48.23°C	230.34V
CL4	62.445A	0A	0A	0A	749.534	91.478%	996	30.3	45.18°C	0.99
	12.003V	5.028V	3.292V	5.043V	819.372				55.99°C	230.26V

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Anex

Cooler Master V750i Gold

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	1.230A	0.495A	0.5A	0.197A	19.985	76.849%	0	<6.0	39.62°C	0.517
	12.060V	5.051V	3.299V	5.065V	26.005				36.52°C	230.31V
40W	2.710A	0.693A	0.7A	0.296A	39.985	84.985%	0	<6.0	40.35°C	0.645
	12.057V	5.05V	3.299V	5.06V	47.051				37.07°C	230.31V
60W	4.190A	0.891A	0.9A	0.396A	59.984	88.242%	0	<6.0	40.89°C	0.741
	12.055V	5.05V	3.298V	5.054V	67.975				37.44°C	230.32V
80W	5.666A	1.089A	1.1A	0.495A	79.922	90.12%	0	<6.0	41.87°C	0.803
	12.054V	5.049V	3.298V	5.048V	88.683				38.06°C	230.32V

RIPPLE MEASUREMENTS 230V

Test	12V	5V	3.3V	5VSB	Pass/Fail
10% Load	7.92mV	6.49mV	10.95mV	14.48mV	Pass
20% Load	8.38mV	7.21mV	11.92mV	12.13mV	Pass
30% Load	9.45mV	7.77mV	13.31mV	21.10mV	Pass
40% Load	9.60mV	8.13mV	13.87mV	33.92mV	Pass
50% Load	10.83mV	9.46mV	14.54mV	41.81mV	Pass
60% Load	13.13mV	10.18mV	15.81mV	40.24mV	Pass
70% Load	13.43mV	11.66mV	15.86mV	36.82mV	Pass
80% Load	15.38mV	13.40mV	19.70mV	32.83mV	Pass
90% Load	15.99mV	15.03mV	20.68mV	35.27mV	Pass
100% Load	23.63mV	19.31mV	21.97mV	28.24mV	Pass
110% Load	25.17mV	20.56mV	21.94mV	29.40mV	Pass
Crossload1	15.86mV	19.95mV	20.82mV	21.36mV	Pass
Crossload2	11.39mV	12.99mV	12.54mV	19.78mV	Pass
Crossload3	10.42mV	18.61mV	23.65mV	17.49mV	Pass
Crossload4	22.75mV	10.04mV	14.49mV	22.93mV	Pass

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Anex

Cooler Master V750i Gold

Top side

Power specifications label

CERTIFICATIONS 115V

CERTIFICATIONS 230V

Aristeidis Bitziopoulos
Lab Director

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