

Corsair VS650

Lab ID#: 554

Receipt Date: Nov 17, 2018 Test Date: Nov 28, 2018 Report:

Report Date: Nov 30, 2018

ON
Corsair
HEC
VS
184339863000052672383
CP-9020172
,

DUT SPECIFICATIO	NS
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	10-5
Rated Frequency (Hz)	47-63
Rated Power (W)	650
Туре	ATX12V
Cooling	120mm Sleeve Bearing Fan (D12SH-12)
Semi-Passive Operation	Х
Cable Design	Fixed cables

POWER SPECIFICA	OWER SPECIFICATIONS					
Rail		3.3V	5V	12V	5VSB	-12V
Mary Davies	Amps	24	20	52 3 0.3	0.3	
Max. Power	Watts	130		624	15	3.6
Total Max. Power (W)		650				

CABLES AND CONNECTORS				
Captive Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (550mm)	1	1	18-20AWG	No
4+4 pin EPS12V (610mm)	1	1	18AWG	No
6+2 pin PCle (550mm+110mm)	1	2	18AWG	No
SATA (440mm+120mm+120mm)	2	6	18AWG	No
SATA (440mm) / 4-pin Molex (+120mm+120mm) / FDD (+120mm)	1	1/2/1	18-20AWG	No
AC Power Cord (1380mm) - C13 coupler	1	1	18AWG	-

All data and graphs included in this test report can be used by any individual on the following conditions:

PAGE 1/13

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Corsair VS650

RESULTS	
Temperature Range (°C/°F)	28-30 / 82.4-86 (+-2°C / +- 3.6°F)
ErP Lot 3/6 Ready	✓
(EU) No 617/2013 Compliance	✓

115V	
Average Efficiency	83.258%
Efficiency With 10W (≤500W) or 2% (>500W)	58.099
Average Efficiency 5VSB	79.375%
Standby Power Consumption (W)	0.0481592
Average PF	0.991
Avg Noise Output	34.11 dB(A)
Efficiency Rating (ETA)	BRONZE
Noise Rating (LAMBDA)	S++

230V	
Average Efficiency	85.506%
Average Efficiency 5VSB	78.487%
Standby Power Consumption (W)	0.1119340
Average PF	0.959
Avg Noise Output	34.27 dB(A)
Efficiency Rating (ETA)	BRONZE
Noise Rating (LAMBDA)	S++

TEST EQUIPMENT

All data and graphs included in this test report can be used by any individual on the following conditions:

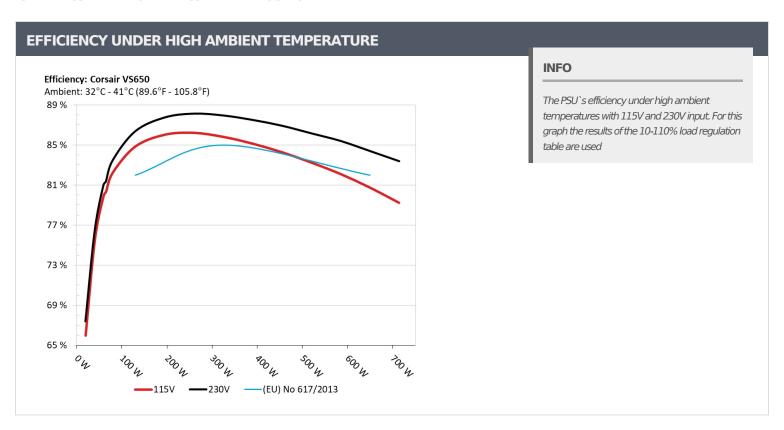
PAGE 2/13

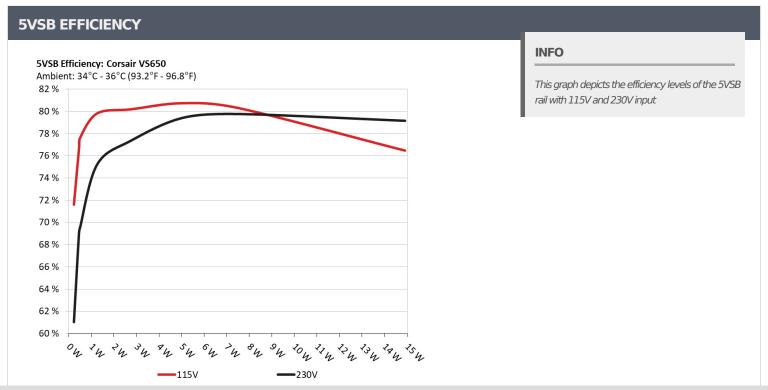
> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Corsair VS650





All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 3/13



Corsair VS650

5VSB EFFICIENCY -115V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.045A	0.227	71 6000/	0.035
	5.033V	0.317	71.609%	115.05V
2	0.090A	0.453	76.6500/	0.065
	5.032V	0.591	76.650%	115.05V
	0.550A	2.763	00.100%	0.272
3	5.022V	3.446	80.180%	115.04V
	1.000A	5.013	00 7050/	0.356
	5.013V	6.210	80.725%	115.04V
	1.500A	7.503	00 2000/	0.404
5	5.002V	9.344	80.298%	115.05V
6	3.000A	14.909	76.4600/	0.471
	4.970V	19.497	76.468%	115.05V

5VSB EFFICIENCY -230V (ERP LOT 3/6 & CEC)				
Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
	0.045A	0.227	C1 0220/	0.160
1	5.000V 0.372 61.022%	61.022%	230.20V	
2	0.090A	0.453		0.023
	5.032V	0.656	69.055%	230.19V
	0.550A	2.763	77.373%	0.116
3	5.022V	3.571		230.20V
	1.000A	5.013		0.184
4	5.013V	6.313	79.408%	230.19V
_	1.500A	7.503		0.241
5	5.002V	9.406	79.768%	230.18V
_	3.000A	14.908		0.337
6	4.969V	18.833	79.159%	230.18V

All data and graphs included in this test report can be used by any individual on the following conditions:

PAGE 4/13

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Corsair VS650

115V

 $\hbox{All data and graphs included in this test report can be used by any individual on the following conditions:} \\$

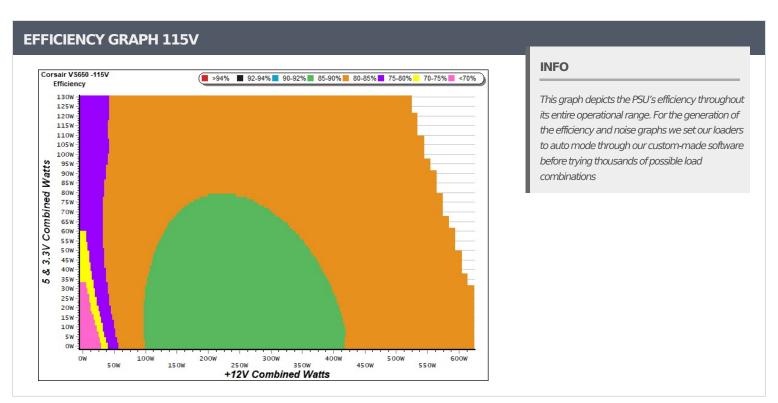
> It should be mentioned that the test results are provided by Cybenetics

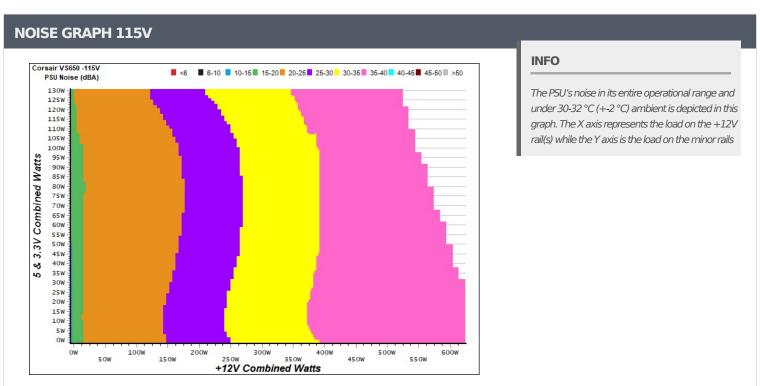
> The link to the original test results document should be provided in any case

PAGE 5/13



Corsair VS650





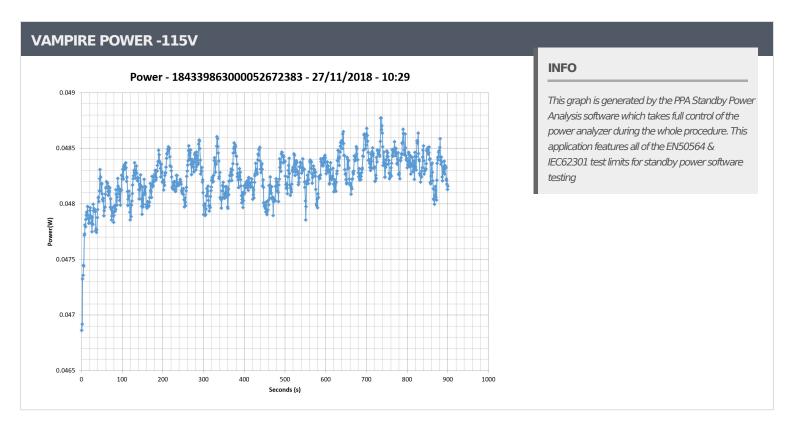
All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 6/13



Corsair VS650



All data and graphs included in this test report can be used by any individual on the following conditions:

PAGE 7/13

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Corsair VS650

COMMISSION REGULATION (EU) NO 617/2013 TESTING 115V

All data and graphs included in this test report can be used by any individual on the following conditions:

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case

PAGE 8/13



Corsair VS650

230V

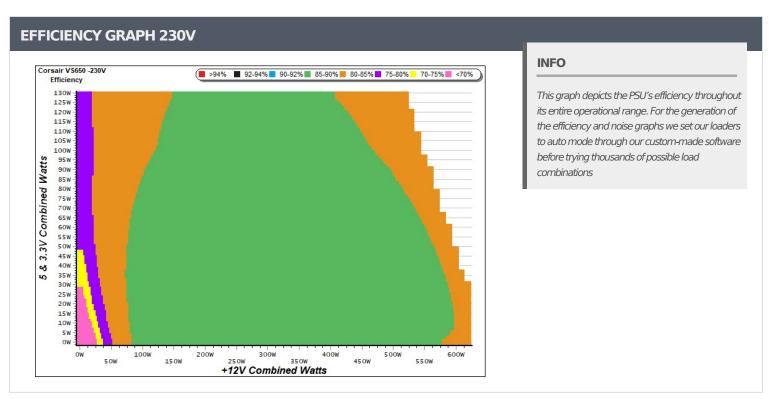
All data and graphs included in this test report can be used by any individual on the following conditions:

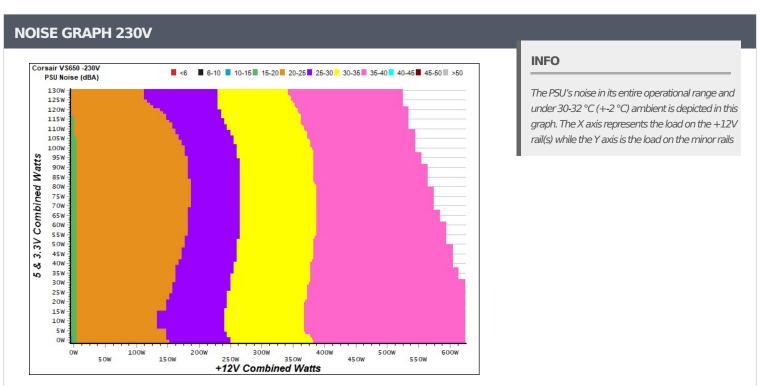
- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 9/13



Corsair VS650





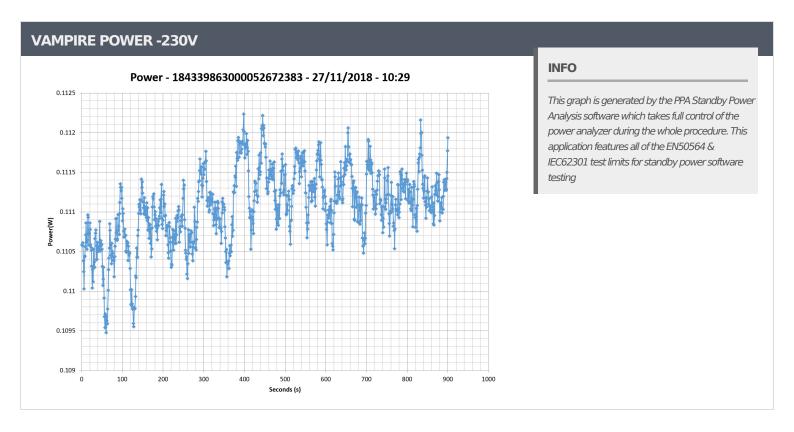
All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 10/13



Corsair VS650



All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- > The link to the original test results document should be provided in any case

PAGE 11/13



Corsair VS650

COMMISSION REGULATION (EU) NO 617/2013 TESTING 230V

All data and graphs included in this test report can be used by any individual on the following conditions:

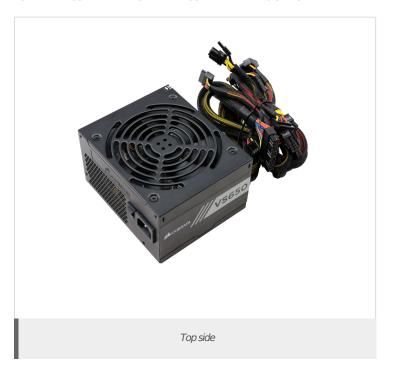
PAGE 12/13

> It should be mentioned that the test results are provided by Cybenetics

> The link to the original test results document should be provided in any case



Corsair VS650





CERTIFICATIONS 115V







Aris Mpitsiopoulos

Lab Director

CERTIFICATIONS 230V





All data and graphs included in this test report can be used by any individual on the following conditions:

- > It should be mentioned that the test results are provided by Cybenetics
- $\,{}^{\backprime}$ The link to the original test results document should be provided in any case

PAGE 13/13