

Lab ID#: 260  
Receipt Date: Jan 24, 2018  
Test Date: Jan 30, 2018

Report:  
Report Date: Feb 1, 2018

DUT INFORMATION	
Brand	Corsair
Manufacturer (OEM)	Flextronics
Series	AXi
Model Number	
Serial Number	1742956000049040160
DUT Notes	Balanced Profile

DUT SPECIFICATIONS	
Rated Voltage (Vrms)	100-240
Rated Current (Arms)	18-9
Rated Frequency (Hz)	50-60
Rated Power (W)	1600
Type	ATX12V
Cooling	140mm Fluid Dynamic Bearing Fan (NR140P)
Semi-Passive Operation	✓ (selectable)
Cable Design	Fully Modular

POWER SPECIFICATIONS						
Rail		3.3V	5V	12V	5VSB	-12V
Max. Power	Amps	30	30	133.3	3.5	0.8
	Watts	180		1600	17.5	9.6
Total Max. Power (W)		1600				

CABLES AND CONNECTORS				
Modular Cables				
Description	Cable Count	Connector Count (Total)	Gauge	In Cable Capacitors
ATX connector 20+4 pin (600mm)	1	1	16-22AWG	Yes
4+4 pin EPS12V (650mm)	2	2	16AWG	Yes
6+2 pin PCIe (650mm)	6	6	16-18AWG	Yes
6+2 pin PCIe (680mm+100mm)	2	4	16-18AWG	Yes
SATA (450mm+110mm+110mm+110mm)	3	12	18AWG	No
SATA (550mm+110mm)	2	4	18AWG	No
4 pin Molex (450mm+100mm+100mm)	3	9	18AWG	No
FDD Adapter (+105mm)	2	2	20AWG	No
USB Mini to Motherboard Header Cable (+800mm)	1	1	24-28AWG	No
AC Power Cord (1400mm) - C19 coupler	1	1	14AWG	No

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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	✓

### 115V

Average Efficiency	92.288%
Efficiency With 10W (≤500W) or 2% (>500W)	0.000
Average Efficiency 5VSB	81.676%
Standby Power Consumption (W)	0.0481594
Average PF	0.992
Avg Noise Output	23.70 dB(A)
Efficiency Rating (ETA)	TITANIUM
Noise Rating (LAMBDA)	A

### 230V

Average Efficiency	94.209%
Average Efficiency 5VSB	81.291%
Standby Power Consumption (W)	0.0732974
Average PF	0.989
Avg Noise Output	23.41 dB(A)
Efficiency Rating (ETA)	TITANIUM
Noise Rating (LAMBDA)	A

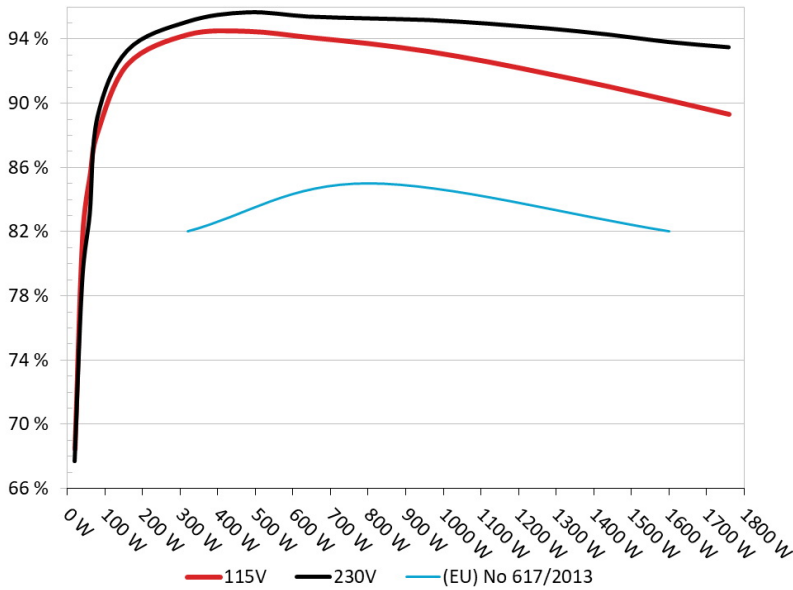
## TEST EQUIPMENT

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### EFFICIENCY UNDER HIGH AMBIENT TEMPERATURE

**Efficiency: Corsair AX1600i**  
Ambient: 37°C - 48°C (98.6°F - 118.4°F)

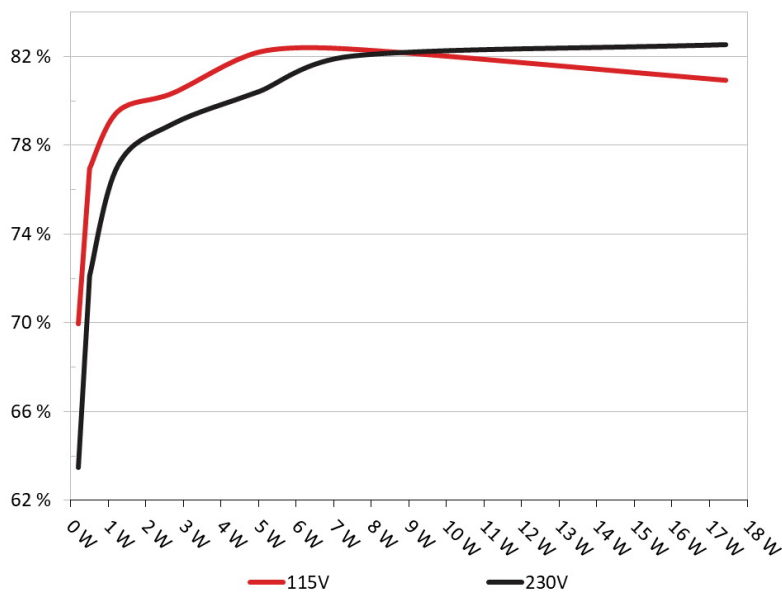


#### INFO

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: Corsair AX1600i**  
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	0.042A	0.212	69.967%	0.018
	5.029V	0.303		115.03V
2	0.088A	0.441	76.963%	0.034
	5.029V	0.573		115.03V
3	0.543A	2.724	80.354%	0.187
	5.021V	3.390		115.03V
4	1.002A	5.026	82.205%	0.299
	5.014V	6.114		115.03V
5	1.502A	7.521	82.332%	0.384
	5.007V	9.135		115.03V
6	3.502A	17.431	80.931%	0.533
	4.978V	21.538		115.02V

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

Test #	5VSB	DC/AC (Watts)	Efficiency	PF/AC Volts
1	0.042A	0.212	63.473%	0.006
	5.030V	0.334		230.14V
2	0.087A	0.440	72.131%	0.011
	5.029V	0.610		230.14V
3	0.542A	2.724	78.979%	0.061
	5.022V	3.449		230.13V
4	1.002A	5.027	80.445%	0.109
	5.015V	6.249		230.13V
5	1.502A	7.522	82.046%	0.154
	5.008V	9.168		230.13V
6	3.502A	17.433	82.554%	0.298
	4.978V	21.117		230.13V

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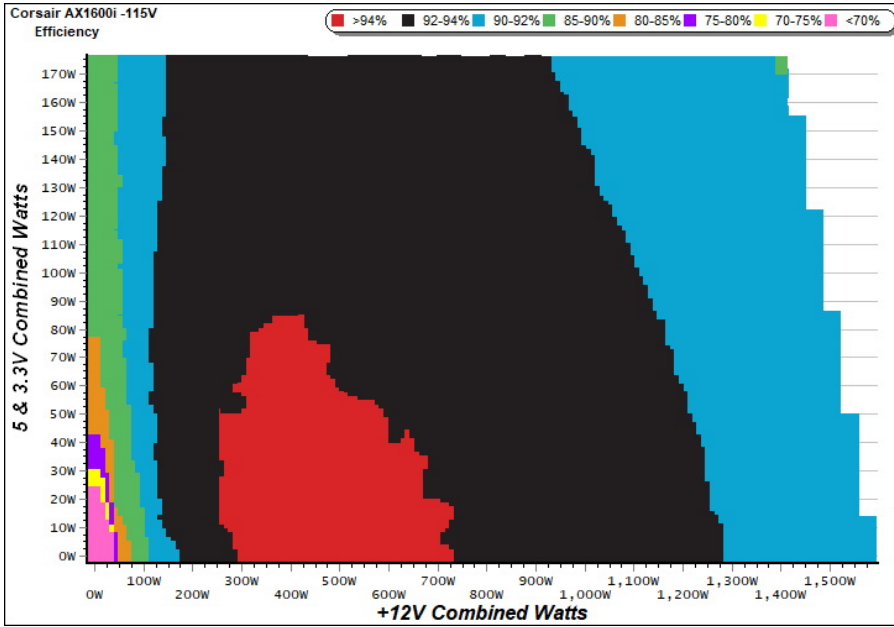
# 115V

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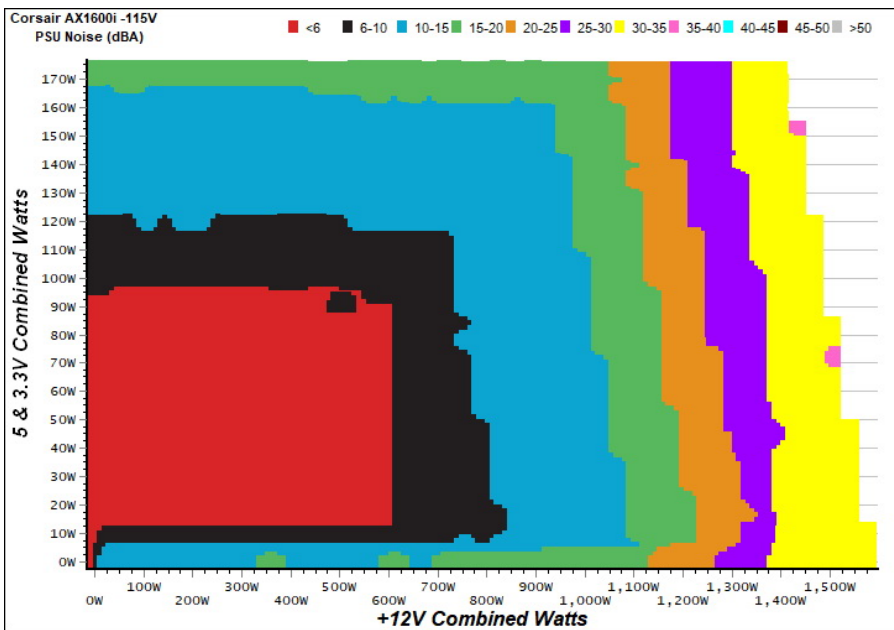
### EFFICIENCY GRAPH 115V



#### 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

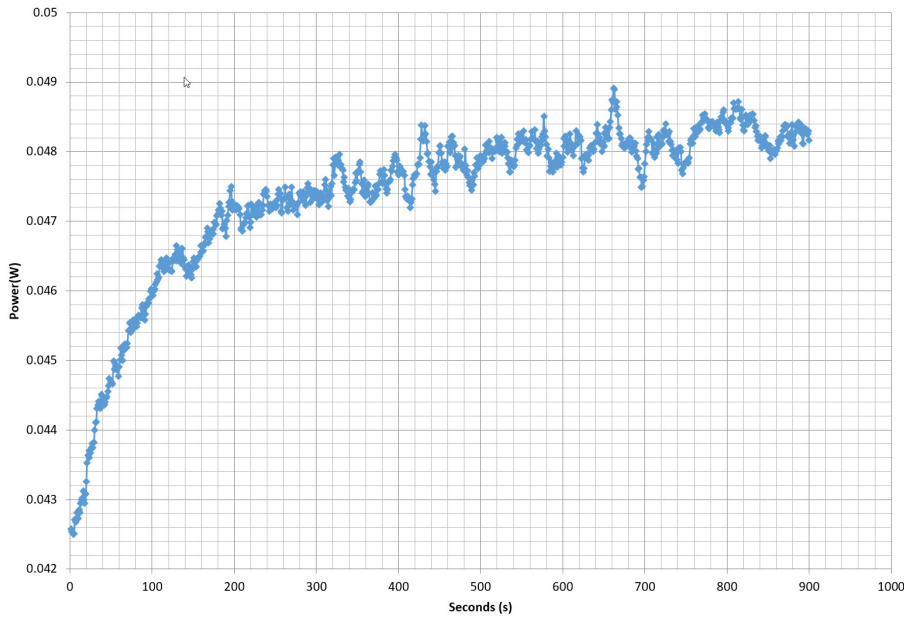
The PSU's noise in its entire operational range and under 30-32 °C (+2 °C) ambient is depicted in this graph. The X axis represents the load on the +12V rail(s) while the Y axis is the load on the minor rails

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VAMPIRE POWER -115V

Power - 1742956000049040160 - 29/12/2017 - 09:58



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

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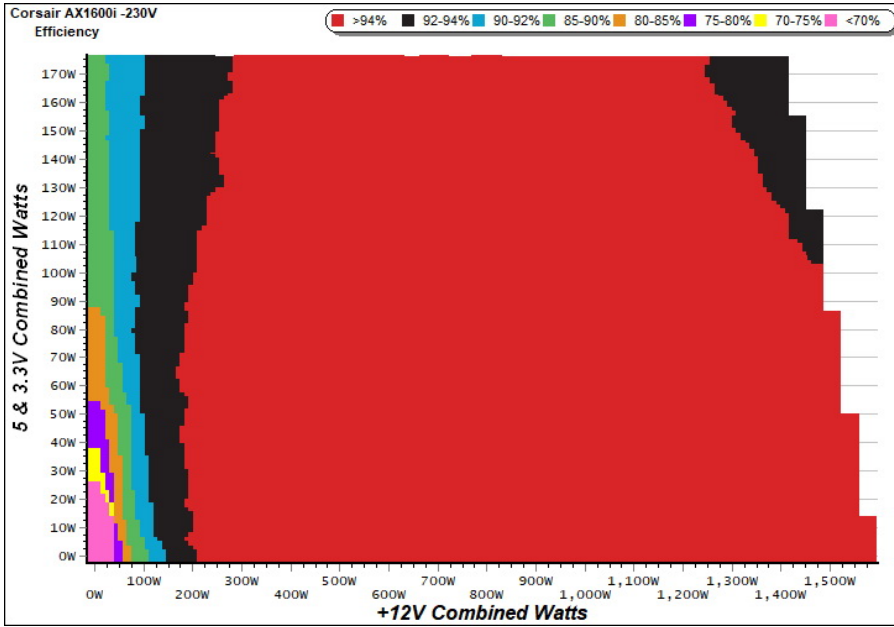
# 230V

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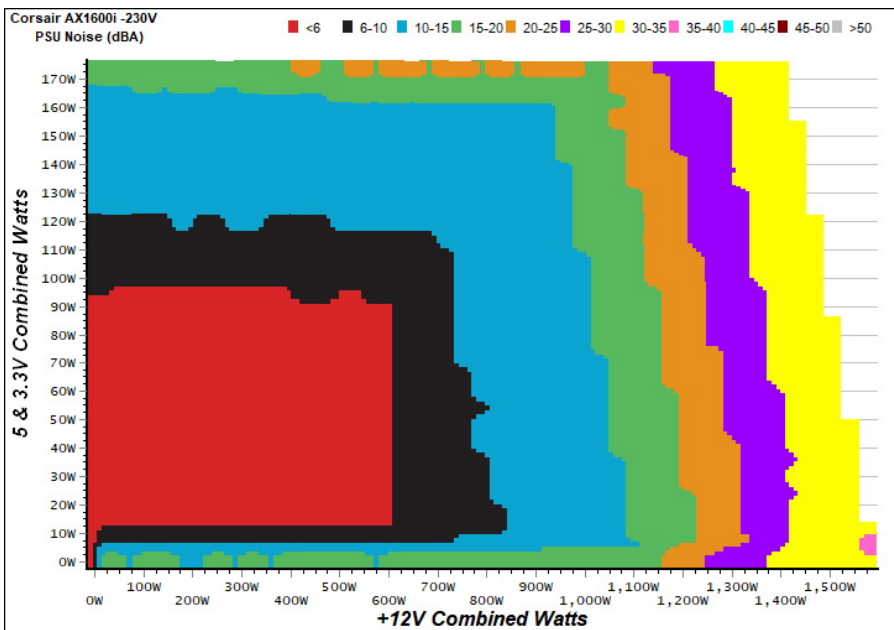
### EFFICIENCY GRAPH 230V



#### INFO

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### NOISE GRAPH 230V



#### INFO

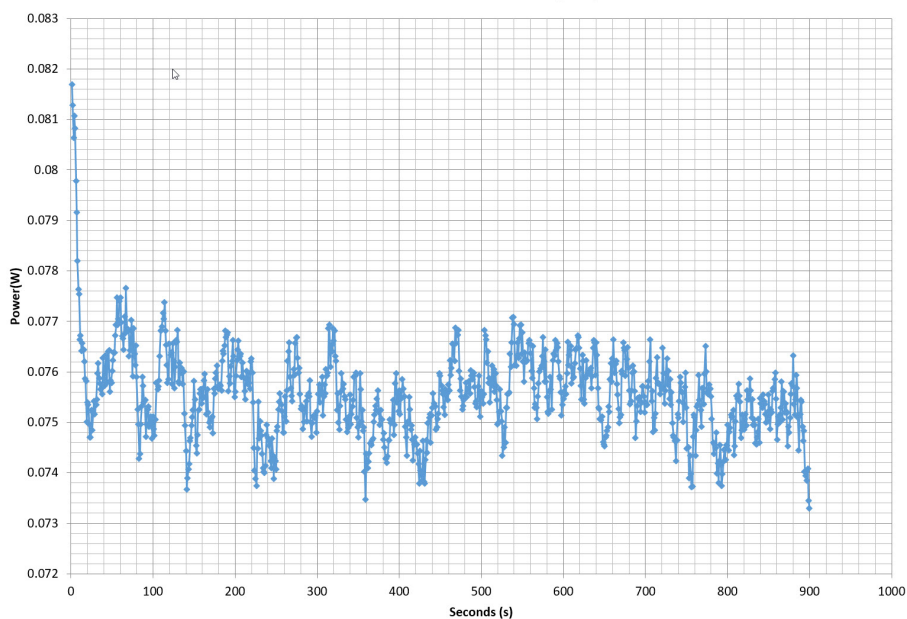
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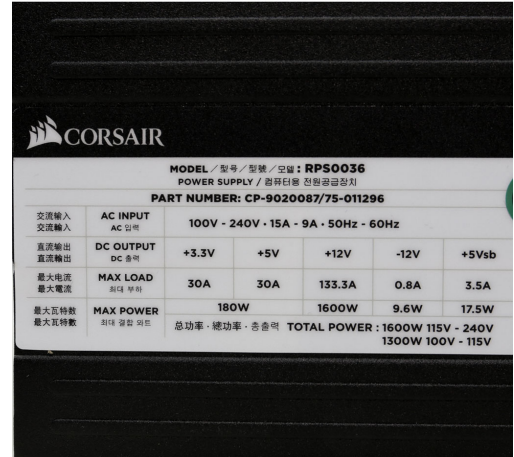
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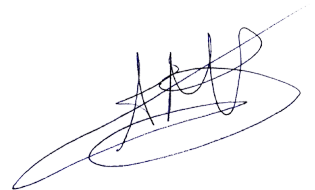


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Power specifications label

### CERTIFICATIONS 115V

**Aris Mpitsiopoulos**  
Lab Director

### CERTIFICATIONS 230V



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