

# 80 PLUS Verification and Testing Report

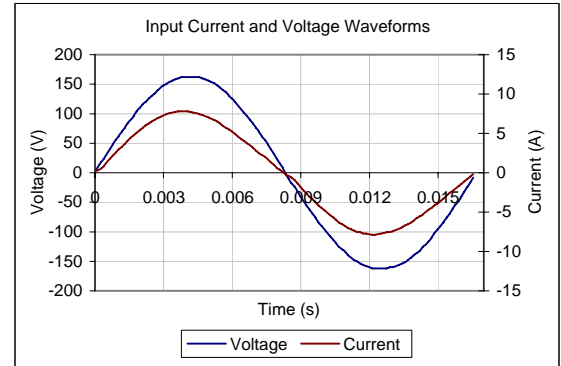


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.41%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>82.23%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	592
<b>Manufacturer</b>	CORSAIR
<b>Model Number</b>	CMPSU-520HX
<b>Serial Number</b>	R0710A91020727
<b>Year</b>	2008
<b>Type</b>	ATX12V & EPS12V
<b>Test Date</b>	3/4/2008

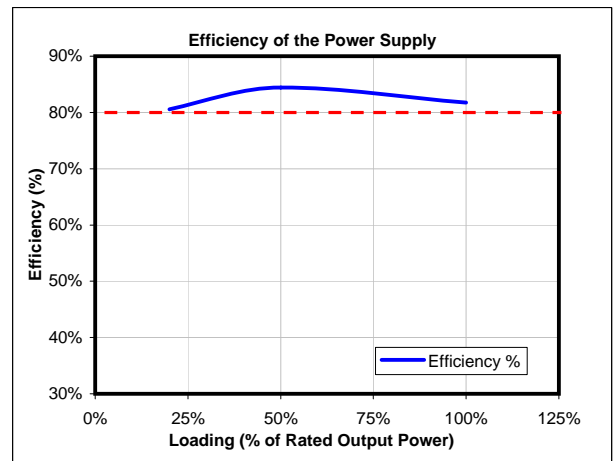
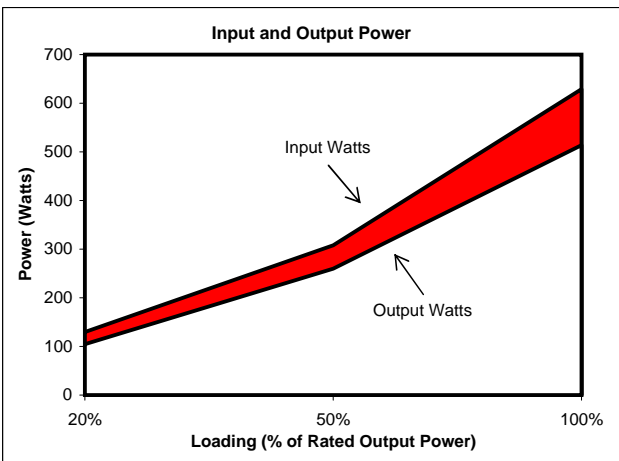
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9	Amps
Input Frequency	50/60	Hz
<b>Rated Output Power</b>	<b>520</b>	<b>Watts</b>

Note: All measurements were taken with input voltage at 115 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 5.44%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)				Output Watts	Efficiency %	
						12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V*			5VSB
1.14	0.99	6.5%	20%	Light	130	12.1/6.5	11.9/0.1	3.3/2.7	5/2.7	4.9/0.5	105	80.54%
2.69	1.00	5.4%	50%	Typical	308	12/16.2	12/0.3	3.3/6.8	4.9/6.8	4.8/1.2	260	84.41%
5.48	1.00	4.9%	100%	Full	629	11.9/32.4	12.1/0.6	3.2/13.6	4.9/13.6	4.7/2.4	514	81.75%



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.

Tested by Electric Power Research Institute, Knoxville, TN.

