

80 PLUS Verification and Testing Report

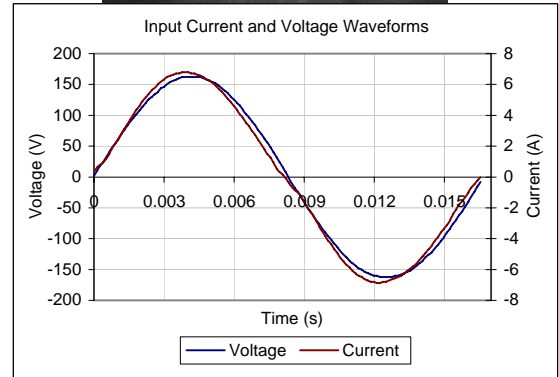


TYPICAL EFFICIENCY (50% Load):	86.09%
AVERAGE EFFICIENCY :	84.93%
80 PLUS COMPLIANT:	YES

Ecos ID #	1097
Manufacturer	COOLERMASTER
Model Number	RS-460-ASAA-D3
Serial Number	1083900201
Year	2008
Type	ATX12V
Test Date	10/31/2008

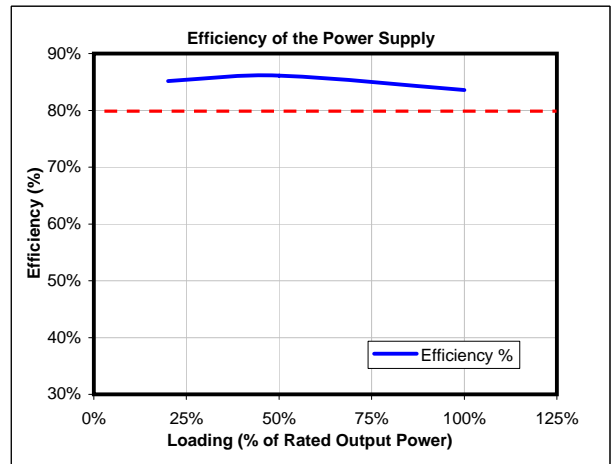
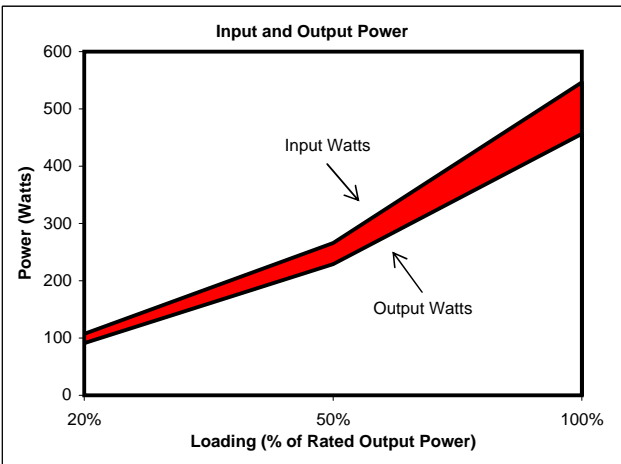
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	60-50	Hz
Rated Output Power	460	Watts

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



Input AC Current Waveform (ITHD = 5.1%, 50% Load)

I _{RMS} A	PF	I _{THD} (%)	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		
0.96	0.97	10.4%	20%	Light	107	11.8/5.5	11.4/0.1	3.4/2.7	5.1/2.7	5/0.4	91	85.14%
2.33	0.99	5.1%	50%	Typical	266	11.9/13.9	11.5/0.2	3.3/6.8	5/6.7	5/1.1	229	86.09%
4.77	1.00	5.1%	100%	Full	546	11.9/27.7	11.6/0.4	3.3/13.5	4.9/13.5	4.9/2.2	457	83.57%



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.