

80 PLUS Verification and Testing Report

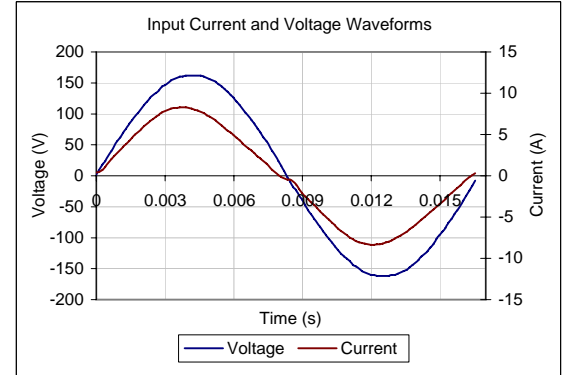
TYPICAL EFFICIENCY (50% Load):	83.27%
AVERAGE EFFICIENCY :	81.61%
80 PLUS COMPLIANT:	YES



Ecos ID #	263
Manufacturer	COOLERMASTER
Model Number	RS_520_ASAA_A1
Serial Number	NA
Year	2007
Type	ATX12V
Test Date	6/20/2007

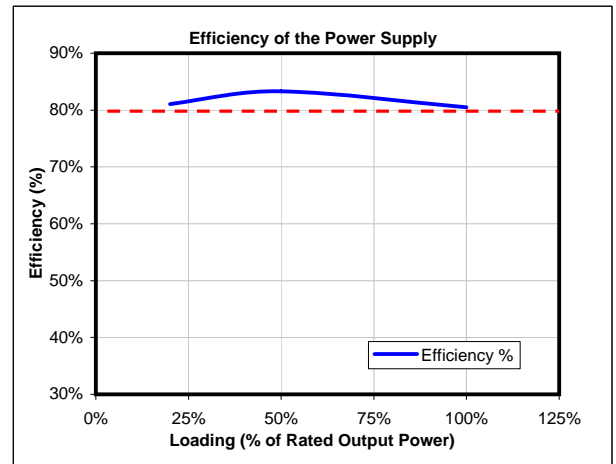
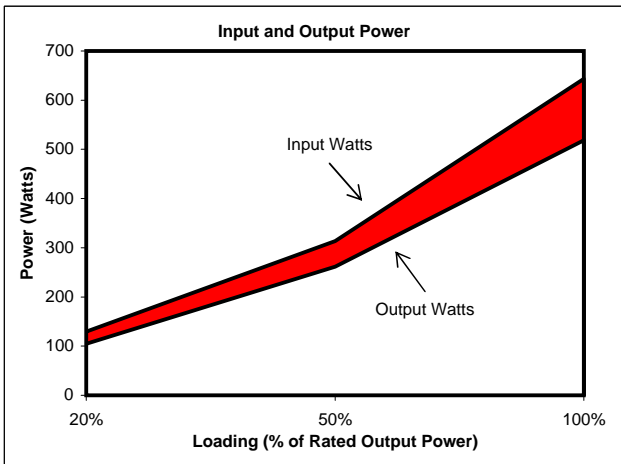
Rated Specifications	Value	Units
Input Voltage	115/230	Volts
Input Current	8	Amps
Input Frequency	60/50	Hz
Rated Output Power	520	Watts

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



Input AC Current Waveform (ITHD = 10.49%, 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		
1.15	0.98	15.5%	20%	Light	129	12.1/6.2	12/0.1	3.3/3.3	5/2.7	5/0.6	105	81.04%
2.75	0.99	10.5%	50%	Typical	314	12.1/15.6	12/0.3	3.3/8.4	4.9/6.7	5/1.5	261	83.27%
5.64	0.99	8.1%	100%	Full	644	12/31.2	12/0.7	3.2/16.7	4.9/13.4	4.9/3	518	80.51%



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.