

80 PLUS Verification and Testing Report

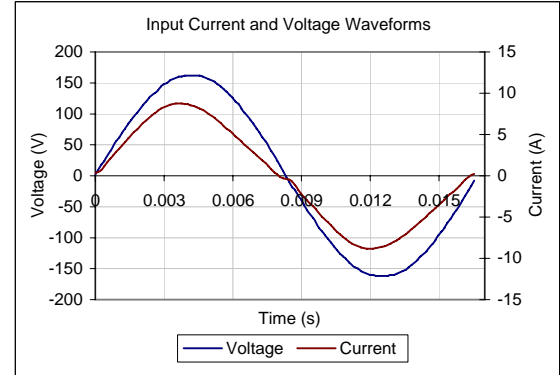


TYPICAL EFFICIENCY (50% Load):	83.58%
AVERAGE EFFICIENCY :	81.95%
80 PLUS COMPLIANT:	YES

Ecos ID #	235
Manufacturer	COOLER MASTER
Model Number	RS_550_ACAA_A1
Serial Number	NA
Year	2007
Type	ATX
Test Date	6/7/2007

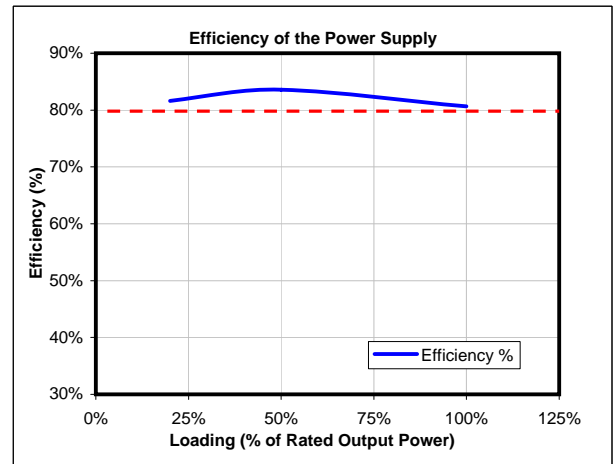
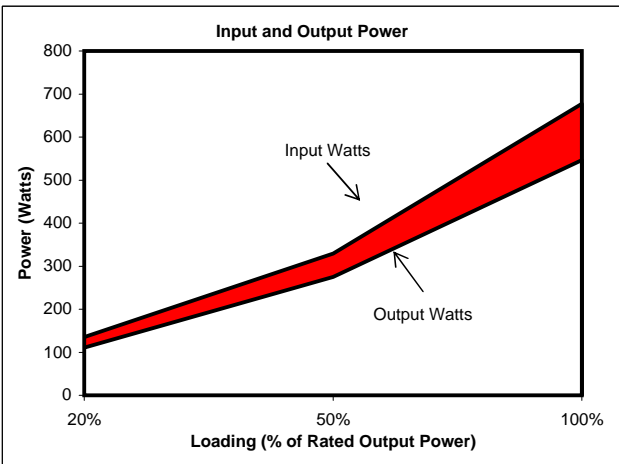
Rated Specifications	Value	Units
Input Voltage	115/230	Volts
Input Current	8	Amps
Input Frequency	50/60	Hz
Rated Output Power	550	Watts

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



Input AC Current Waveform (ITHD = 11.38%, 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		
1.21	0.97	16.0%	20%	Light	135	12.1/6.6	12/0.1	3.3/3.5	5/2.8	5.1/0.6	111	81.63%
2.90	0.99	11.4%	50%	Typical	329	12.1/16.5	12/0.4	3.3/8.8	4.9/7.1	5/1.6	275	83.58%
5.94	0.99	8.5%	100%	Full	677	12/33	12/0.7	3.2/17.6	4.8/14.1	4.9/3.2	546	80.64%



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.