

80 PLUS Verification and Testing Report

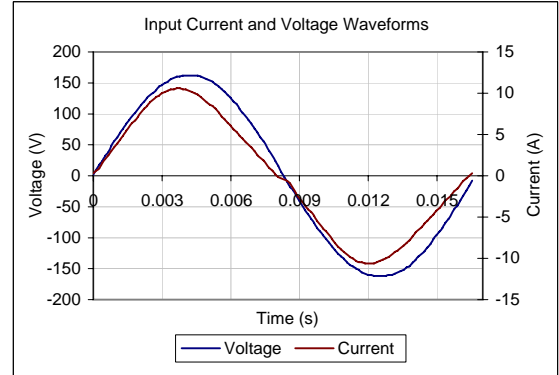


TYPICAL EFFICIENCY (50% Load):	84.40%
AVERAGE EFFICIENCY :	82.69%
80 PLUS COMPLIANT:	YES

Ecos ID #	236
Manufacturer	COOLER MASTER
Model Number	RS_650_ACAA_A1
Serial Number	NA
Year	2007
Type	ATX
Test Date	6/7/2007

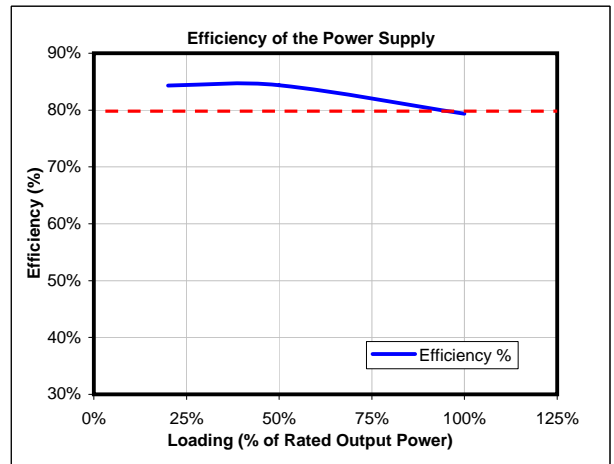
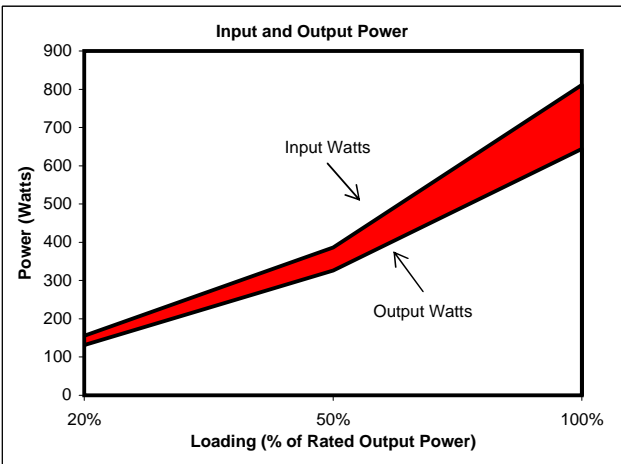
Rated Specifications	Value	Units
Input Voltage	115/230	Volts
Input Current	10	Amps
Input Frequency	60/50	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 11.9%, 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		
1.38	0.98	14.9%	20%	Light	156	12.1/7.7	12/0.1	3.4/3.9	4.9/3.9	5/0.6	131	84.34%
3.41	0.99	11.9%	50%	Typical	387	12.1/19.3	12.1/0.3	3.3/9.9	4.9/9.9	5/1.5	326	84.40%
7.12	0.99	8.7%	100%	Full	812	12.1/38.5	11.9/0.7	3.3/19.6	4.7/19.7	4.8/3	644	79.35%



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.