

80 PLUS Verification and Testing Report

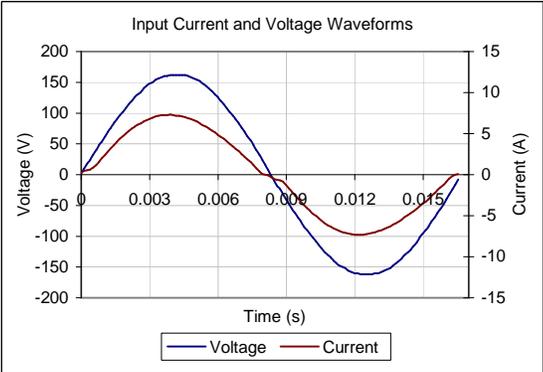
TYPICAL EFFICIENCY (50% Load):	86.13%
AVERAGE EFFICIENCY :	84.03%
80 PLUS COMPLIANT:	YES



Ecos ID #	366
Manufacturer	EMACS
Model Number	HG2-5500V
Serial Number	T73300008
Year	2007
Type	ATX12V
Test Date	9/12/2007

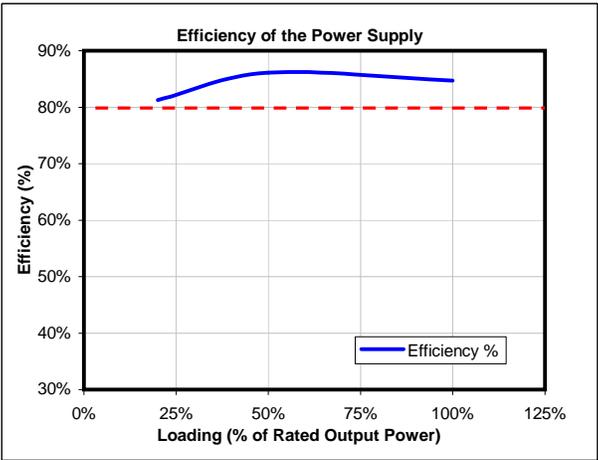
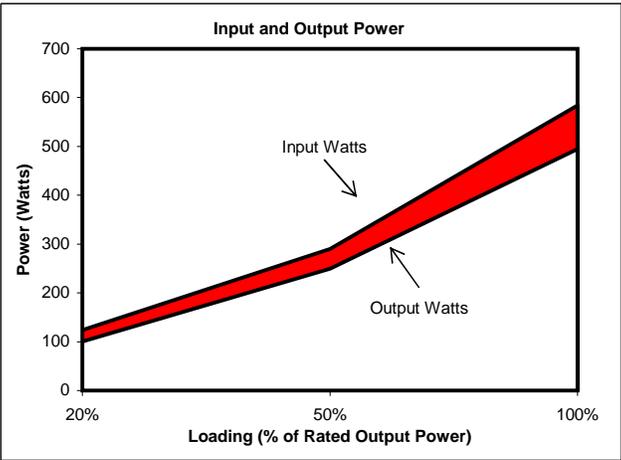
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	47-63	Hz
Rated Output Power	500	Watts

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



Input AC Current Waveform (ITHD = 14.04%, 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		
1.08	0.99	8.0%	20%	Light	124	12/5.8	12/0.2	3.3/3	5.1/3	5.1/0.7	101	81.25%
2.55	0.99	14.0%	50%	Typical	290	12/14.5	12/0.4	3.3/7.6	5/7.6	5/1.8	250	86.13%
5.09	1.00	7.4%	100%	Full	584	11.9/29	11.8/0.8	3.2/15.2	4.9/15.2	4.9/3.5	494	84.72%



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.