

80 PLUS Verification and Testing Report

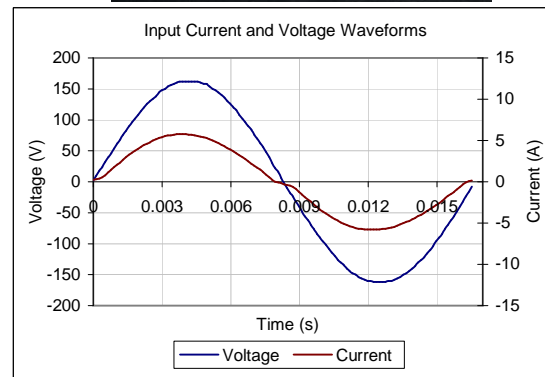
TYPICAL EFFICIENCY (50% Load):	85.61%
AVERAGE EFFICIENCY :	83.67%
80 PLUS COMPLIANT:	YES



Ecos ID #	366
Manufacturer	EMACS
Model Number	HG2-5400V
Serial Number	T73400001
Year	2007
Type	ATX12V
Test Date	9/12/2007

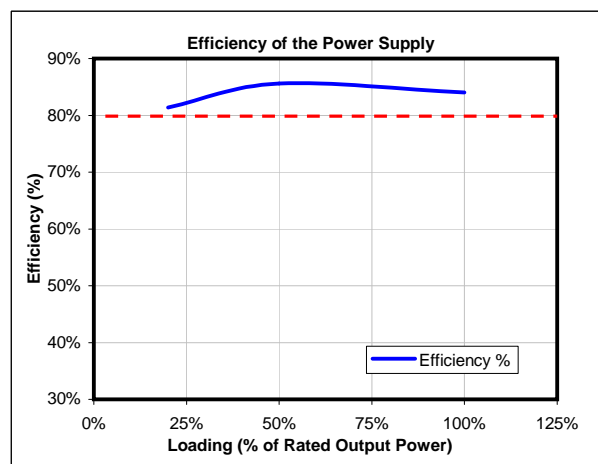
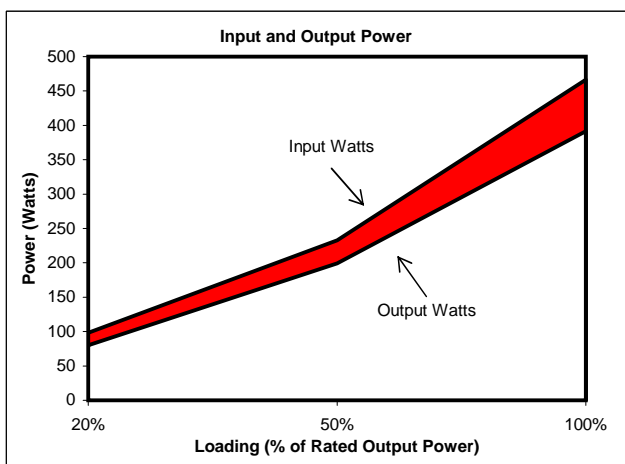
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6	Amps
Input Frequency	47-63	Hz
Rated Output Power	400	Watts

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



Input AC Current Waveform (ITHD = 8.98%, 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		
0.86	0.99	10.6%	20%	Light	98	12/4.3	12/0.1	3.3/2.8	5/2.8	4.6/0.7	80	81.39%
2.04	0.99	9.0%	50%	Typical	233	12/10.7	12.1/0.4	3.3/7.1	5/7.1	4.6/1.7	199	85.61%
4.07	1.00	6.7%	100%	Full	466	11.9/21.4	11.9/0.8	3.2/14.1	4.9/14.2	4.1/3.4	392	84.00%



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.

