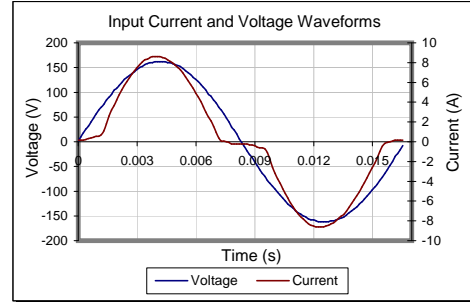


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	86.06%
AVERAGE EFFICIENCY :	84.54%
80 PLUS COMPLIANT:	YES



Ecos ID #	1171.1
Manufacturer	ULTRA PRODUCTS
Model Number	X4-500W
Serial Number	N/A
Year	2008
Type	ATX12V
Test Date	12/2/2008

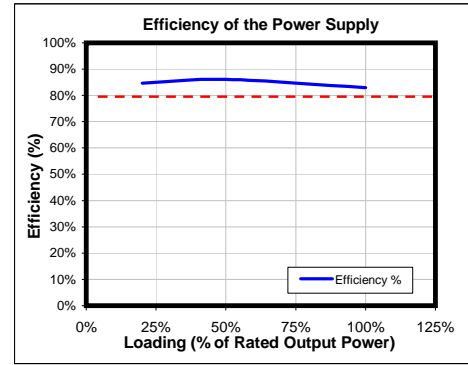
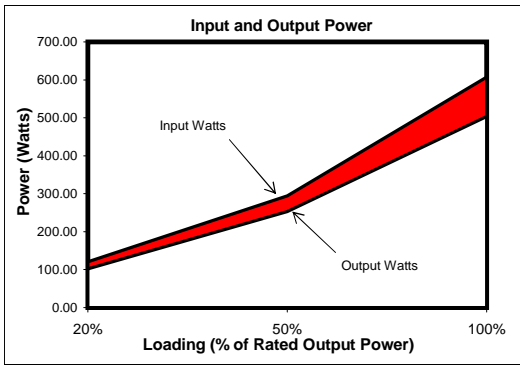


Input AC Current Waveform (ITHD = 31.44%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	115-230	Volts
Input Current	10/6	Amps
Input Frequency	50/60	Hz
Rated Output Power	500	Watts

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

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.)										
1.09	0.9597	25.75%	20%	Light	120.46	12.2/6.8					11.3/0.1	3.3/2.4	5.1/1.6	5.1/0.5	101.99	84.66%
2.70	0.9475	31.44%	50%	Typical	294.32	12.2/16.8					11.3/0.2	3.3/5.9	5.1/4	5.1/1.2	253.28	86.06%
5.46	0.9667	24.96%	100%	Full	607.35	12.1/33.6					11.4/0.5	3.3/11.9	5.1/7.9	5/2.5	503.44	82.89%



These tests were conducted as a part of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in computing technology applications.



Tested by Electric Power Research Institute, Knoxville, TN.