

80 PLUS Verification and Testing Report

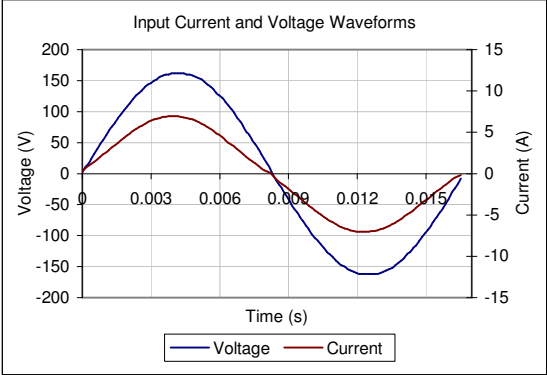
TYPICAL EFFICIENCY (50% Load):	85.34%
AVERAGE EFFICIENCY :	83.99%
80 PLUS COMPLIANT:	YES



Ecos ID #	445
Manufacturer	FSP
Model Number	Epsilon 80PLUS 450
Serial Number	NA
Year	2007
Type	ATX12V & EPS12V
Test Date	11/26/2007

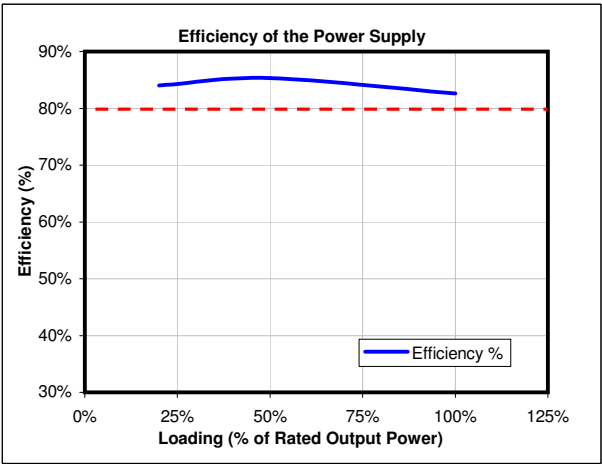
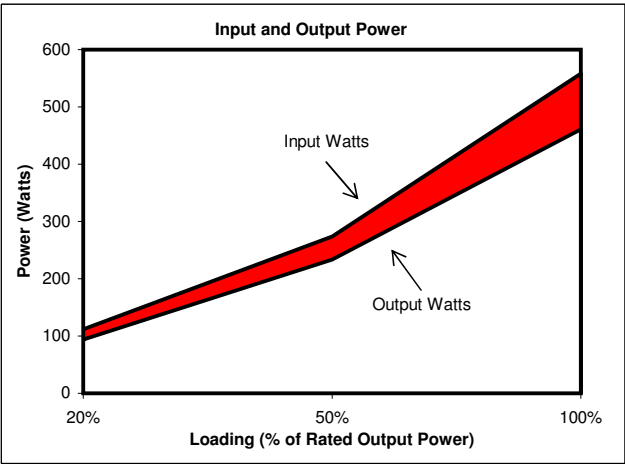
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	460	Watts

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



Input AC Current Waveform (ITHD = 6.68%, 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		
0.99	0.98	13.6%	20%	Light	112	12.2/6.4	12.3/0.1	3.4/1.8	5.2/1.5	5.1/0.3	94	84.03%
2.39	0.99	6.7%	50%	Typical	274	12.2/15.9	12.4/0.2	3.3/4.6	5.2/3.8	5/0.7	234	85.34%
4.87	1.00	5.8%	100%	Full	558	12/31.8	12.4/0.3	3.2/9.1	5.1/7.6	4.9/1.3	461	82.59%



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.