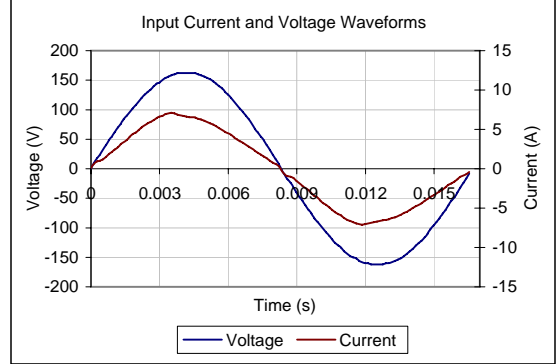


# 80 PLUS Verification and Testing Report



**TYPICAL EFFICIENCY (50% Load):** 85.98%  
**AVERAGE EFFICIENCY :** 84.09%  
**80 PLUS COMPLIANT:** YES

<b>Ecos ID #</b>	943
<b>Manufacturer</b>	FSP
<b>Model Number</b>	FSP450-60EPN(80)
<b>Serial Number</b>	NA
<b>Year</b>	2008
<b>Type</b>	ATX12V
<b>Test Date</b>	9/26/2008

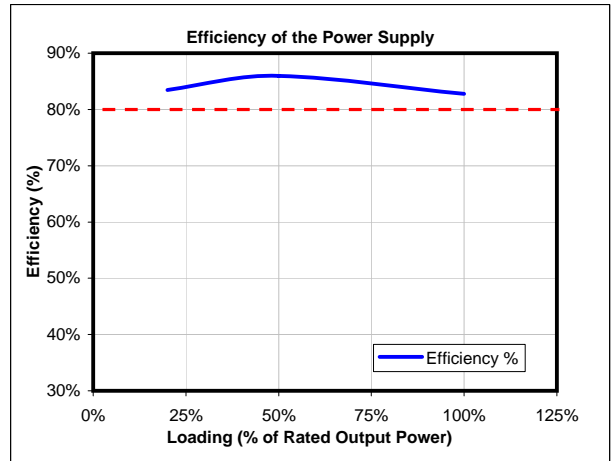
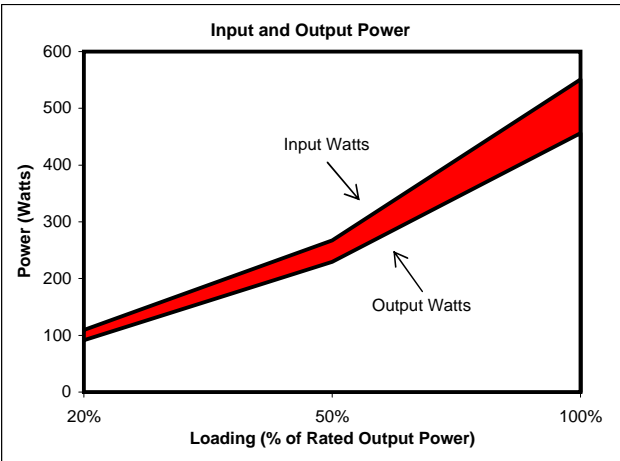


Input AC Current Waveform (ITHD = 9.46%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7-3.5	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>450</b>	<b>Watts</b>

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

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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
0.96	0.99	12.0%	20%	Light	110	12.2/5.5	12.1/0	3.4/3.4	5.1/2.1	5.1/0.5	91	83.48%
2.34	0.99	9.5%	50%	Typical	267	12.3/13.6	12.2/0.1	3.4/8.4	5.1/5.3	5.1/1.1	230	85.98%
4.80	1.00	6.2%	100%	Full	551	12.2/27.3	12.3/0.3	3.3/16.8	5/10.5	5/2.3	456	82.80%



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.