

80 PLUS Verification and Testing Report

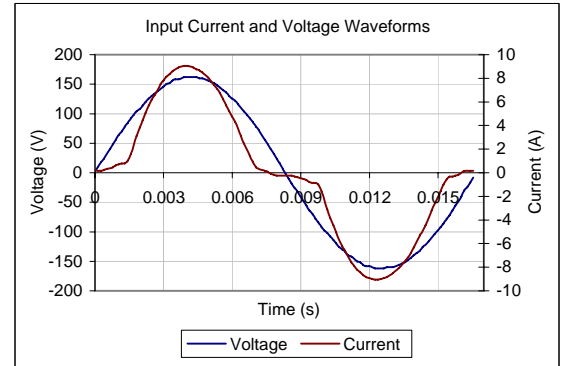


TYPICAL EFFICIENCY (50% Load):	84.49%
AVERAGE EFFICIENCY :	82.65%
80 PLUS COMPLIANT:	YES

Ecos ID #	1088.1
Manufacturer	SPI
Model Number	SPI500ACH8
Serial Number	NA
Year	2008
Type	ATX12V
Test Date	10/29/2008

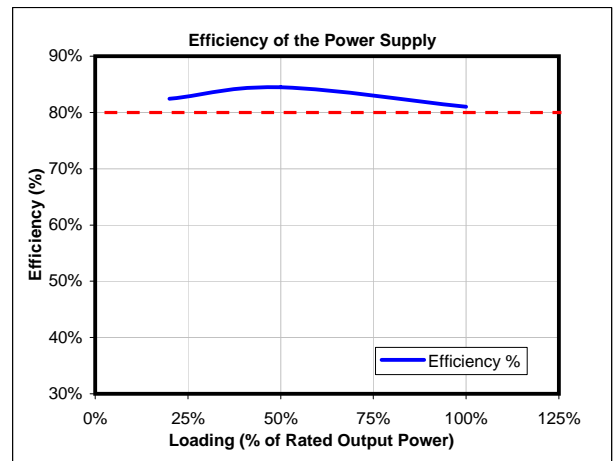
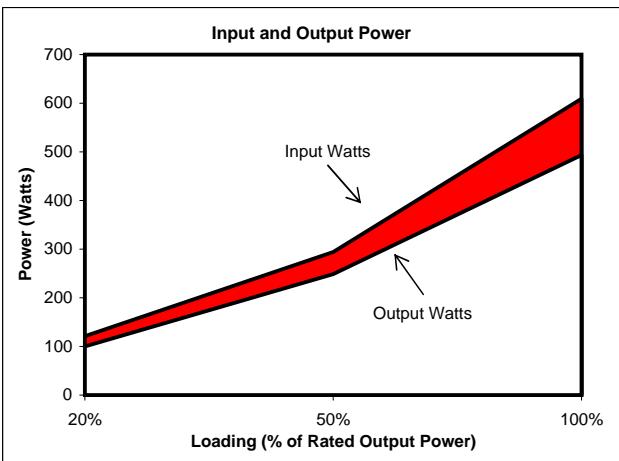
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	500	Watts

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



Input AC Current Waveform (ITHD = 33.57%, 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
1.07	0.98	16.8%	20%	Light	121	11.9/6.1	11.9/0.1	3.4/2.9	5.1/2.8	5/0.5	100	82.43%
2.72	0.94	33.6%	50%	Typical	294	11.9/15.2	11.9/0.2	3.4/7.1	5/7.1	5/1.2	249	84.49%
5.56	0.96	29.0%	100%	Full	609	11.8/30.3	11.9/0.5	3.3/14.2	4.9/14.2	4.9/2.4	494	81.02%



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.