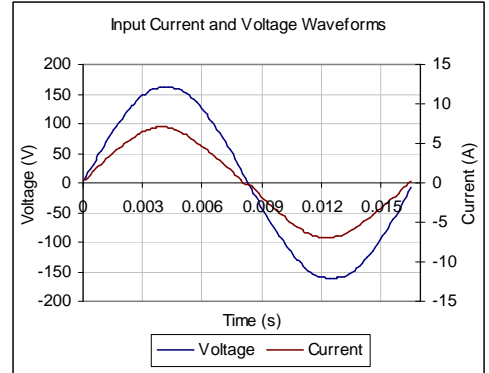


80 PLUS Verification and Testing Report



TYPICAL EFFICIENCY (50% Load):	84.68%
AVERAGE EFFICIENCY :	83.02%
80 PLUS COMPLIANT:	YES

Ecos ID #	204
Manufacturer	Sparkle Power
Model Number	SPI460PFB
Serial Number	N/A
Year	2006
Type	ATX12V
Test Date	2/6/2007

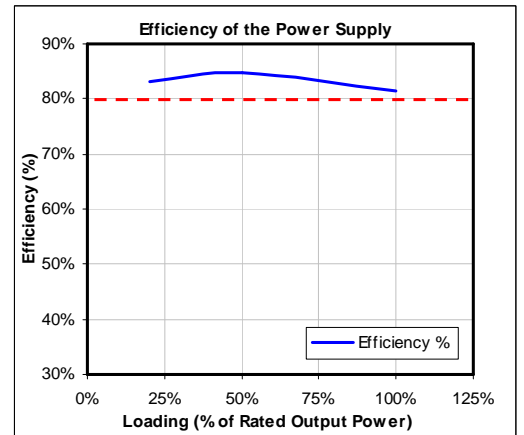
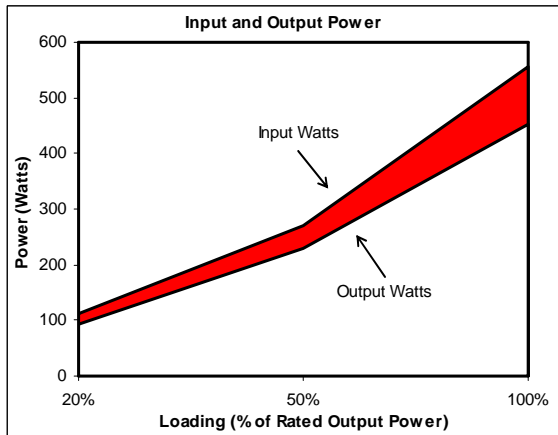


Input AC Current Waveform (ITHD = 8.8%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	115-230	Volts
Input Current	9-6	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.

I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)						Output Watts	Efficiency %
						12V1	12V2	-12V	3.3V	5V*	5VSB		
0.98	0.99	12.8%	20%	Light	111	12.1/2.7	12.1/2.7	11.9/0.1	3.3/3.2	5/2.9	5.1/0.5	92	83.04%
2.37	0.99	8.8%	50%	Typical	271	12/6.6	12/6.6	11.9/0.2	3.2/7.9	4.9/7.2	5/1.2	229	84.68%
4.86	1.00	5.2%	100%	Full	557	11.9/13.2	11.9/13.2	12/0.5	3.2/15.7	4.9/14.4	4.9/2.5	453	81.34%



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.

