

80 PLUS Verification and Testing Report

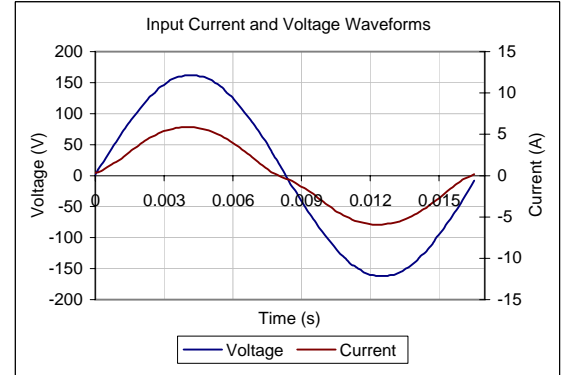


TYPICAL EFFICIENCY (50% Load):	85.96%
AVERAGE EFFICIENCY :	84.63%
80 PLUS COMPLIANT:	YES

Ecos ID #	141
Manufacturer	FSP
Model Number	Zen400
Serial Number	NA
Year	2007
Type	ATX12V
Test Date	11/28/2007

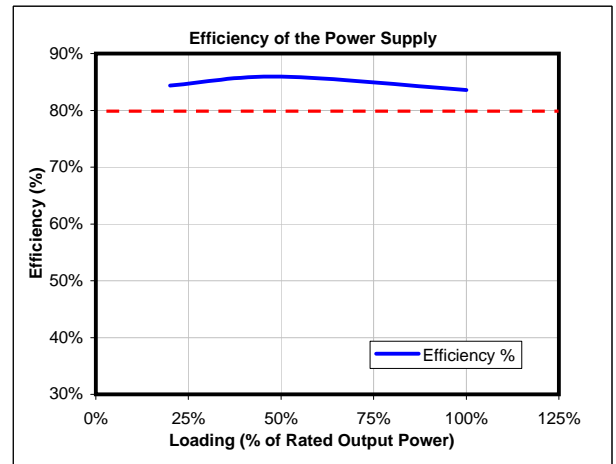
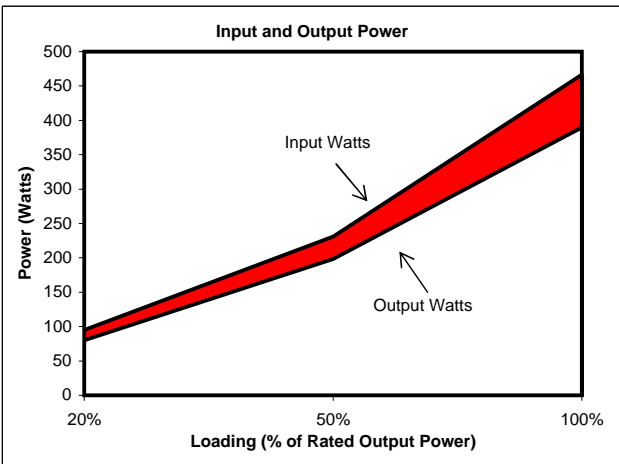
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6	Amps
Input Frequency	50-60	Hz
Rated Output Power	400	Watts

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



Input AC Current Waveform (ITHD = 10.6%, 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		
0.85	0.97	20.5%	20%	Light	95	11.9/4.6	12.6/0	3.3/3.2	5.1/2.3	4.9/0.4	80	84.36%
2.03	0.99	10.6%	50%	Typical	231	11.9/11.5	12.5/0.1	3.2/8.1	5.1/5.7	4.8/1.1	198	85.96%
4.07	1.00	8.0%	100%	Full	466	11.7/23	12.7/0.3	3.1/16.2	5/11.4	4.7/2.1	390	83.56%



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.