

# 80 PLUS Verification and Testing Report

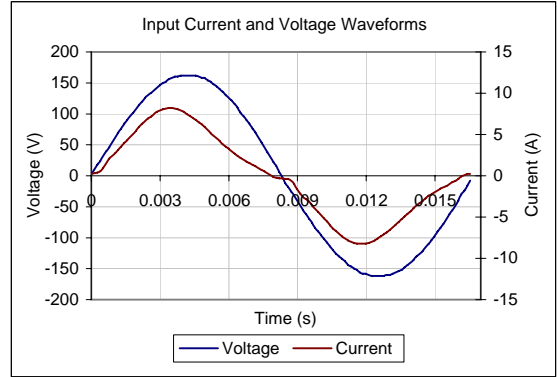


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.39%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>82.71%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	245
<b>Manufacturer</b>	Supermicro
<b>Model Number</b>	PWS_465_PQ
<b>Serial Number</b>	NA
<b>Year</b>	2007
<b>Type</b>	ATX12V
<b>Test Date</b>	6/12/2007

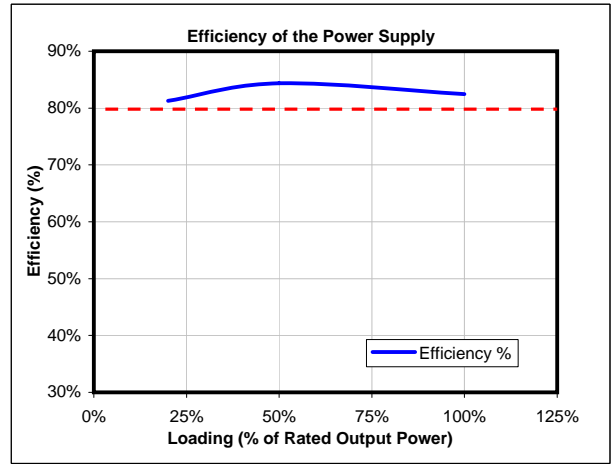
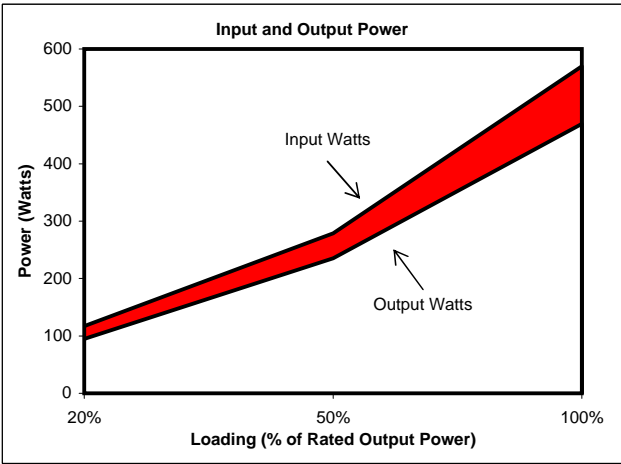
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>465</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 21.75%, 50% Load)

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		
1.07	0.95	25.6%	20%	Light	117	12.2/5.6	12/0.1	3.3/2.5	5/3	5.1/0.5	95	81.30%
2.51	0.96	21.8%	50%	Typical	279	12.2/14.1	12/0.2	3.3/5.6	5/7.5	5/1.2	235	84.39%
5.12	0.97	18.5%	100%	Full	570	12.2/28.1	12/0.4	3.3/11.2	4.9/15	4.9/2.4	470	82.43%



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.