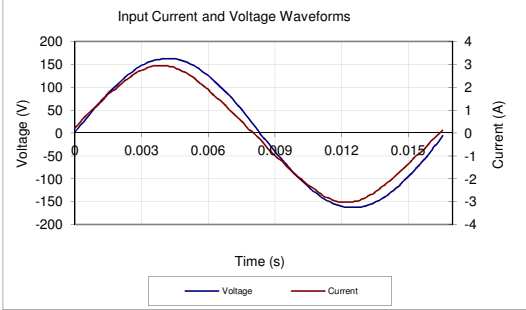


# 80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	92.51%
AVERAGE EFFICIENCY :	90.86%
80 PLUS COMPLIANT:	YES



Ecos ID #	3100.1
Manufacturer	Super Micro Computer, Inc.
Model Number	PWS-441P-1H
Serial Number	N/A
Year	2012
Type	1U
Test Date	4/19/2012

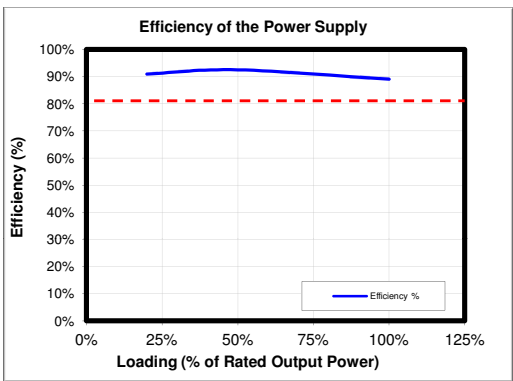
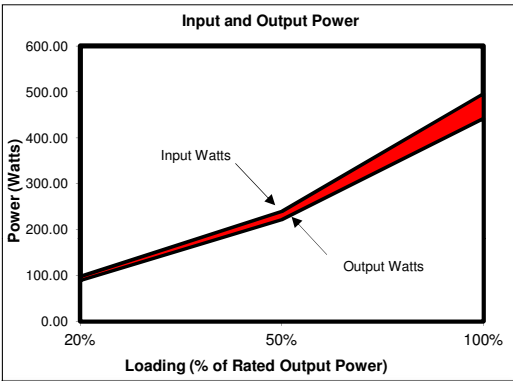


Input AC Current Waveform (ITHD = 9.41%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-140 / 180-240	Volts
Input Current	5.5-4 / 3.5-2.5	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>440</b>	<b>Watts</b>

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

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency %
					12V (cumulative of 12V1, 12V2, etc.)						
0.48	0.95	9.41%	10%	52.45	12.1/2.9	12.5/0	3.4/0.9	5.2/1	5/0.2	44.68	85.19%
0.86	0.98	9.41%	20%	97.80	12/5.7	12.2/0.1	3.3/1.7	5.2/2.1	5/0.5	89.00	91.00%
2.09	1.00	9.41%	50%	239.75	12/14.4	12.1/0.2	3.3/4.3	5.2/5.2	5/1.2	221.79	92.51%
4.54	0.95	9.41%	100%	496.40	12/28.7	12.3/0.4	3.4/8.5	5.2/10.3	5/2.4	442.19	89.08%



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <http://www.80plus.org/>

