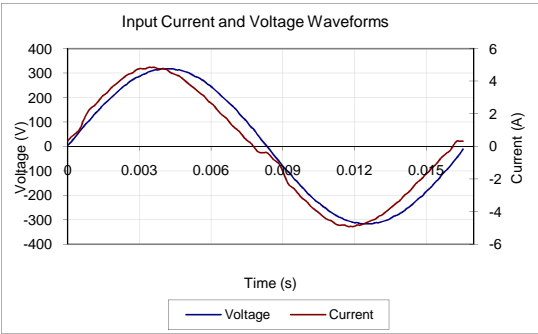


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>92.24%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>90.78%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-277
<b>Manufacturer</b>	Super Micro Computer, Inc.
<b>Model Number</b>	PWS-1K41P-SQ
<b>Serial Number</b>	672042055722
<b>Year</b>	2011
<b>Type</b>	1U
<b>Test Date</b>	6/1/2011



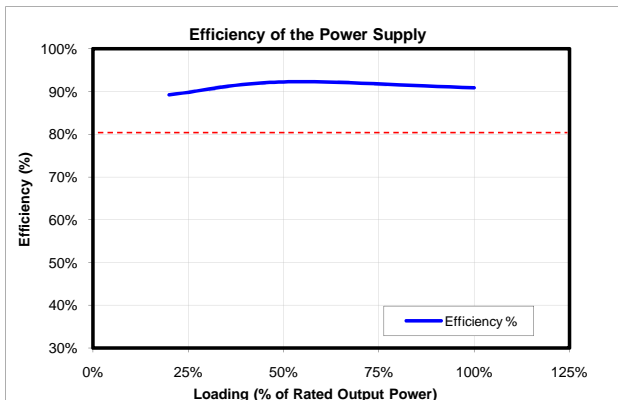
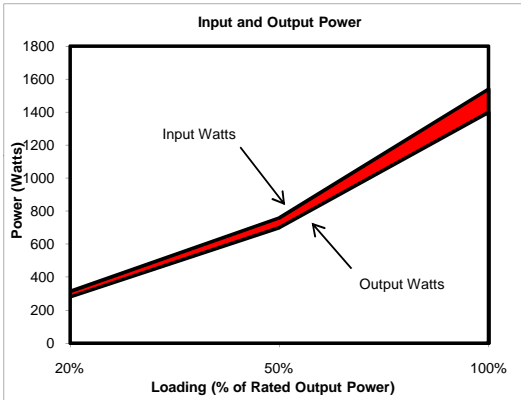
Rated Specifications	Value	Units
Input Voltage	100-140 / 180-240	Volts
Input Current	13.5-9.5 / 9.5-7.0	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>1,400</b>	<b>Watts</b>

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

Input AC Current Waveform (ITHD = 7.86%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)**	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	5Vsb		
0.82	0.89	17.32	*10%	Low	167	7.87	12.02/11.5	5.08/0.4	140	83.79%
1.44	0.95	13.72	20%	Light	314	7.80	12.02/23	5.07/0.79	280	89.22%
3.36	9823.00	7.86	50%	Typical	760	7.80	12.01/57.52	5.05/1.98	701	92.24%
6.75	0.99	5.27	100%	Full	1541	7.93	12/114.99	5.01/3.97	1400	90.87%

\* 10% load results are for informative purposes only and not included in certification requirements.  
 \*\* Fan power is not included in the efficiency calculations



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/>

