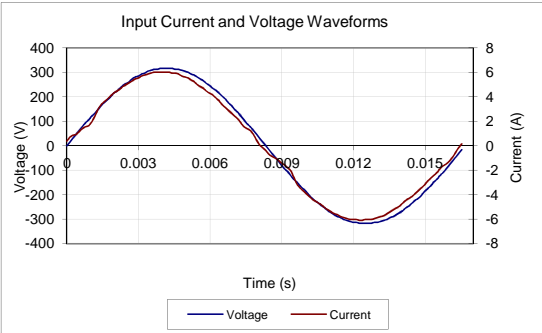


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>95.31%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>94.14%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-545.1
<b>Manufacturer</b>	Super Micro Computer, Inc.
<b>Model Number</b>	PWS-2K02P-1R
<b>Serial Number</b>	N/A
<b>Year</b>	2013
<b>Type</b>	1U
<b>Test Date</b>	06/03/13



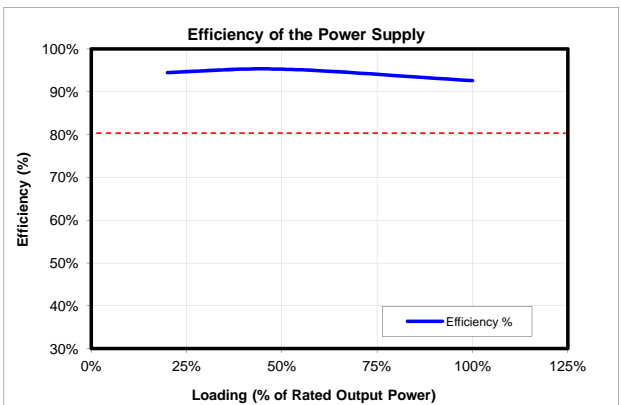
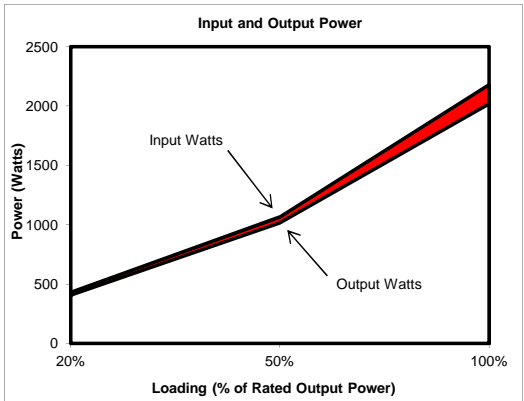
Input AC Current Waveform (ITHD = 4.17%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-140 / 180-240	Volts
Input Current	16.0-12.0 / 12.5-9.5	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>2,000</b>	<b>Watts</b>

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

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		
1.08	0.89	11.14	10%	Low	221	1.20	12.2/16.56	4.94/0.4	204	92.13%
1.97	0.95	7.06	20%	Light	430	1.08	12.19/33.06	4.93/0.8	407	94.50%
4.69	0.99	4.17	50%	Typical	1066	2.40	12.18/82.63	4.91/1.99	1016	95.31%
9.52	1.00	4.12	100%	Full	2179	9.24	12.09/165.31	4.87/3.98	2018	92.61%

\* 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<sup>®</sup> 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>



