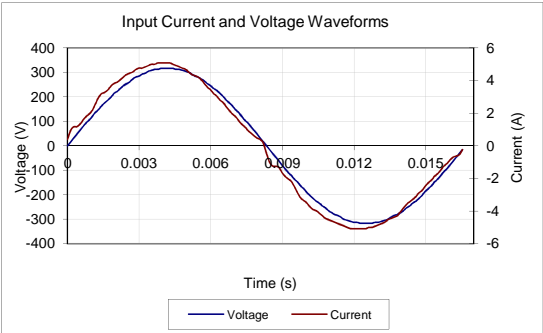


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>96.33%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>95.35%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-713.1
<b>Manufacturer</b>	Super Micro Computer
<b>Model Number</b>	PWS-1K68A-1R
<b>Serial Number</b>	N/A
<b>Year</b>	2014
<b>Type</b>	1U
<b>Test Date</b>	03/13/14



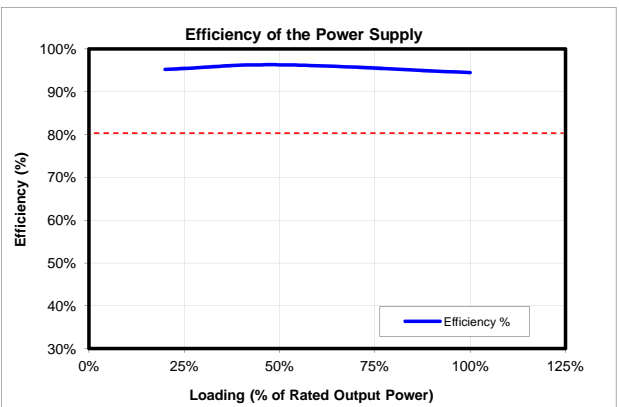
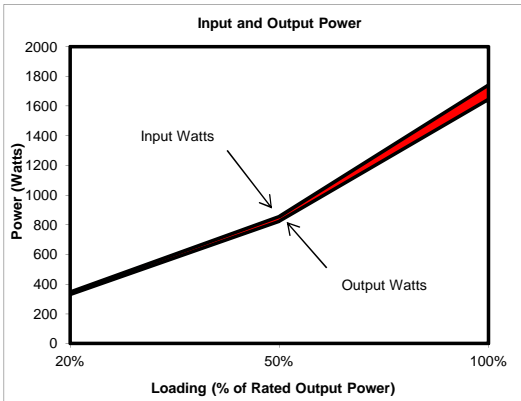
Rated Specifications	Value	Units
Input Voltage	100-140 / 180-240	Volts
Input Current	10-7 / 11-8	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>1,600</b>	<b>Watts</b>

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

Input AC Current Waveform (ITHD = 3.92%, 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	0.93	5.90	10%	Low	176	0.83	12.34/13.24	5.11/0.1	164	92.97%
1.53	0.98	5.12	20%	Light	346	0.83	12.34/26.62	5.11/0.2	329	95.22%
3.73	1.00	3.92	50%	Typical	856	1.43	12.34/66.58	5.1/0.5	824	96.33%
7.58	1.00	2.55	100%	Full	1741	5.76	12.32/133.18	5.1/1.01	1645	94.51%

\* 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/>

