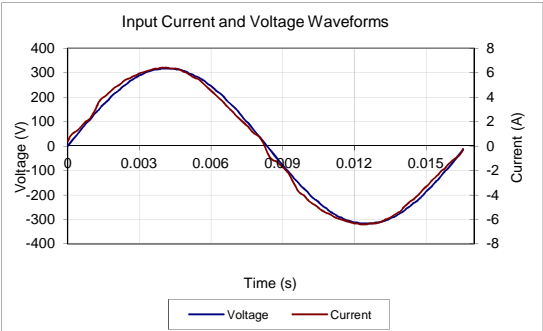


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	96.30%
AVERAGE EFFICIENCY :	95.30%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-829.2
Manufacturer	Super Micro Computer, Inc.
Model Number	PWS-2K04A-1R
Serial Number	N/A
Year	2014
Type	1U
Test Date	09/25/14



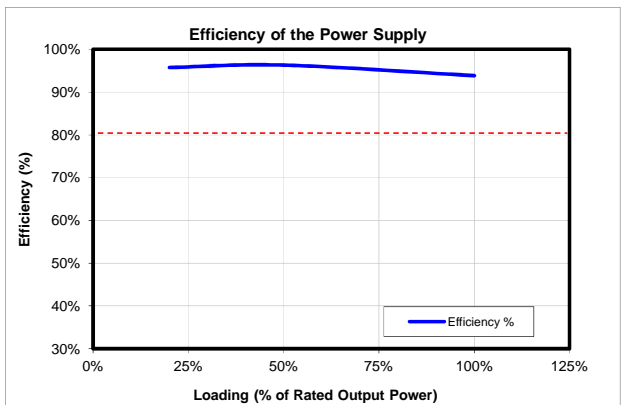
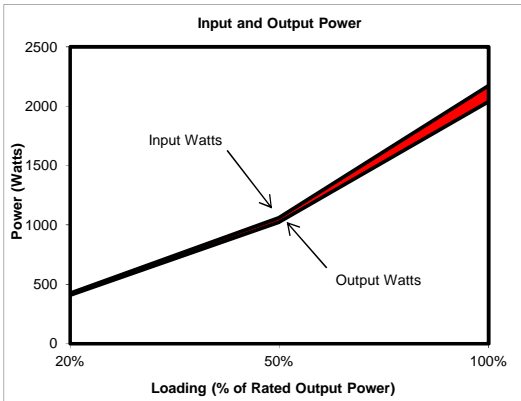
Rated Specifications	Value	Units
Input Voltage	100-127 / 200-240	Volts
Input Current	12-9.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	2,000	Watts

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

Input AC Current Waveform (ITHD = 3.3%, 50% Load)

I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	5Vsb		
1.05	0.91	7.88	10%	Low	218	0.83	12.27/16.69	5.11/0.1	205	94.06%
1.92	0.97	4.78	20%	Light	428	0.95	12.27/33.33	5.11/0.2	410	95.75%
4.65	0.99	3.30	50%	Typical	1064	1.79	12.26/83.32	5.11/0.5	1024	96.30%
9.48	1.00	2.27	100%	Full	2174	9.52	12.24/166.27	5.1/1	2040	93.84%

* 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/>

