80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**95.13%**
AVERAGE EFFICIENCY :	**94.18%**
80 PLUS COMPLIANT:	**YES**

Ecos ID #	SO-642.1
Manufacturer	Super Micro Computer Inc.
Model Number	PWS-1K67P-1R
Serial Number	N/A
Year	2013
Type	2U
Test Date	12/10/13

Rated Specifications	Value	Units
Input Voltage	**100-240**	Volts
Input Current	**14.2-7**	Amps
Input Frequency	**50-60**	Hz
Rated Output Power	**1,600**	Watts

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

Input Current and Voltage Waveforms
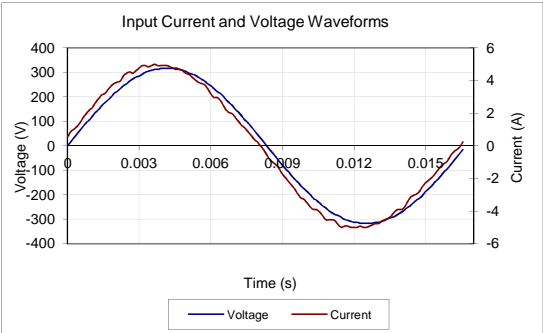
Input AC Current Waveform (ITHD = 2.58%, 50% Load)

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	**12Vsb**		
0.96	0.82	10.14	10%	**Low**	181	1.68	12.2/13.19	12.19/0.2	163	**90.22%**
1.66	0.92	5.55	20%	**Light**	349	1.92	12.2/26.39	12.19/0.4	327	**93.61%**
3.80	0.98	2.58	50%	**Typical**	857	2.40	12.19/65.85	12.17/1.01	815	**95.13%**
7.58	0.99	1.68	100%	**Full**	1734	4.80	12.18/131.57	12.14/1.99	1626	**93.81%**

* Fan power is not included in the efficiency calculations

Input and Output Power

Efficiency of the Power Supply

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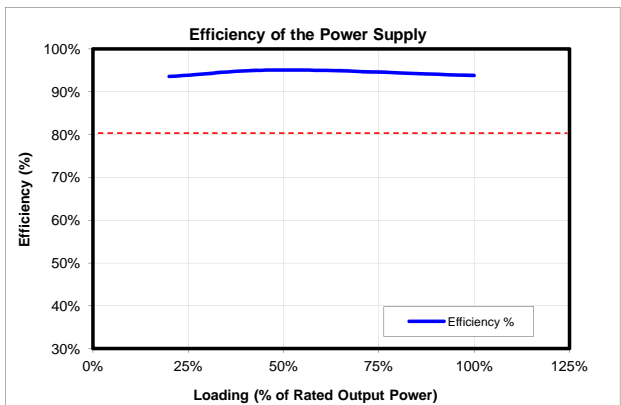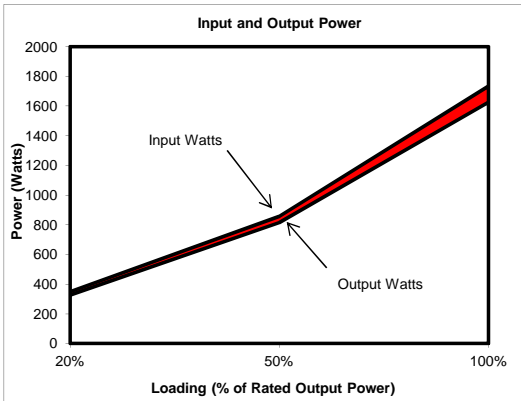
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS® Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. http://www.80plus.org/

80 PLUS®