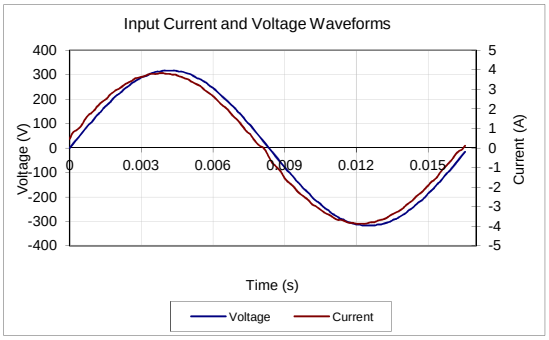
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**96.01%**
AVERAGE EFFICIENCY :	**94.98%**
80 PLUS COMPLIANT:	**YES**

Ecos ID #	SO-788.1
Manufacturer	Super Micro Computer Inc.
Model Number	PWS-1K22A-1R
Serial Number	N/A
Year	2014
Type	1U
Test Date	07/23/14

Rated Specifications	Value	Units
Input Voltage	**100-140 / 200-240**	Volts
Input Current	**9.8-7 / 7.5-6**	Amps
Input Frequency	**50-60**	Hz
Rated Output Power	**1,200**	**Watts**

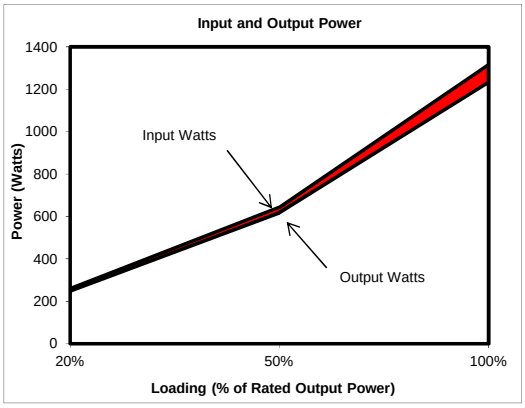
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

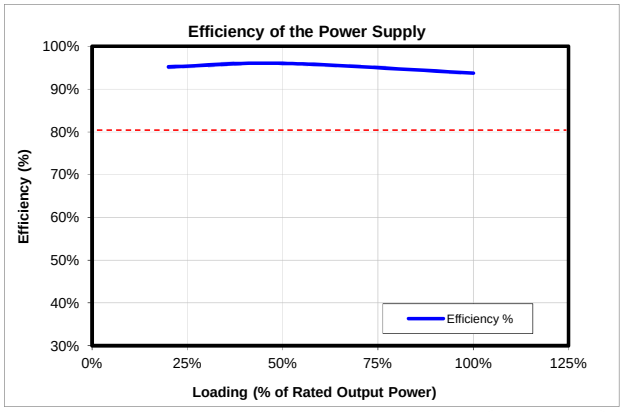


Input AC Current Waveform (ITHD = 1.884%, 50% Load)

I_{RMS} A	PF	I_{THD} (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A) 12V	12Vsb	Output Watts	Efficiency %
0.67	0.89	10.64	10%	**Low**	137	1.92	12.43/9.83	12.43/0.21	125	**90.70%**
1.18	0.96	8.14	20%	**Light**	260	1.92	12.37/19.63	12.37/0.41	248	**95.20%**
2.82	0.99	1.88	50%	**Typical**	644	2.04	12.34/49.1	12.33/1.02	618	**96.01%**
0.57	1.00	1.52	100%	**Full**	1316	2.54	12.31/98.15	12.3/2.05	1234	**93.74%**

* Fan power is not included in the efficiency calculations





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®