

80 PLUS Verification and Testing Report

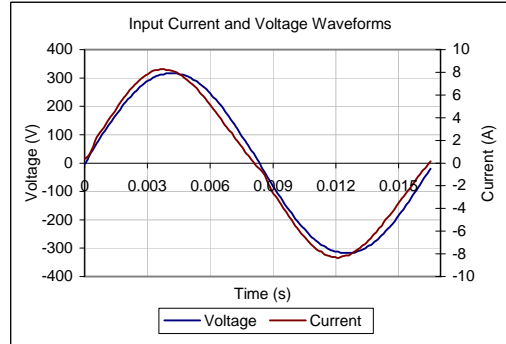
TYPICAL EFFICIENCY (50% Load):	92.40%
AVERAGE EFFICIENCY :	91.10%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-62
Manufacturer	SUPER MICRO COMPUTER INC.
Model Number	PWS-1K21P-1R
Serial Number	N/A
Year	2009
Type	1U
Test Date	4/17/2009

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-5	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.

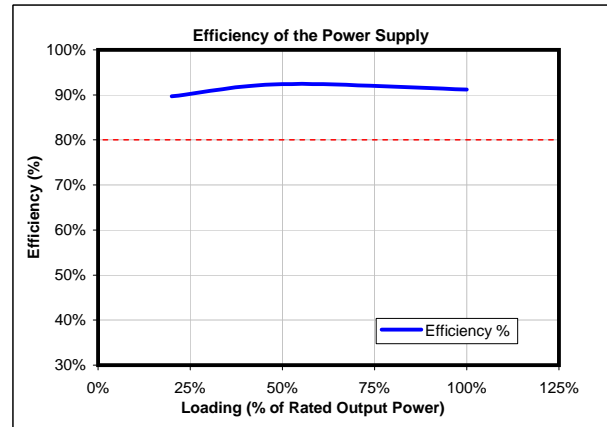
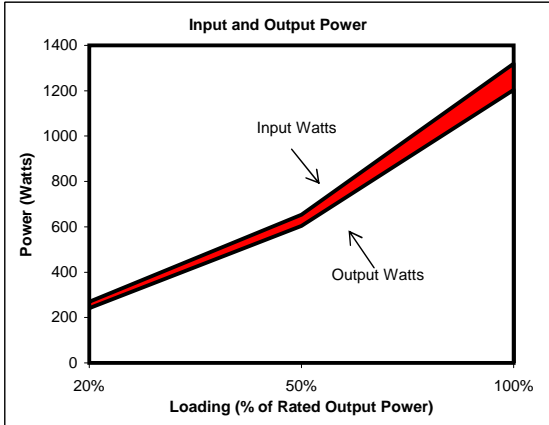


Input AC Current Waveform (ITHD = 5.3%, 100% Load)

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	0V		
0.78	0.80	26.54	*10%	Low	143	19.00	12.09/9.86	5.08/0.39	0/0	121	84.71%
1.27	0.92	15.65	20%	Light	270	18.88	12.09/19.69	5.07/0.79	0/0	242	89.67%
2.90	0.98	8.56	50%	Typical	654	18.88	12.07/49.2	5.04/1.98	0/0	604	92.40%
5.78	0.99	5.30	100%	Full	1320	18.88	12.04/98.39	4.98/3.94	0/0	1204	91.22%

* 10% load results are for informative purposes only and not included in certification requirements.

** 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/>

