

80 PLUS Verification and Testing Report

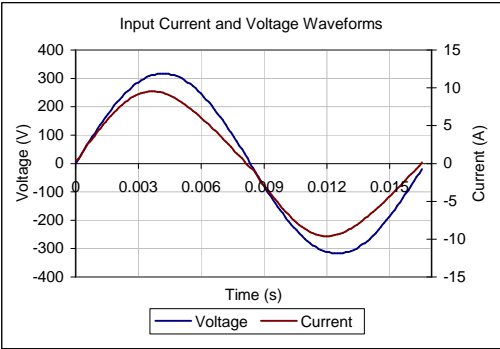
TYPICAL EFFICIENCY (50% Load):	92.31%
AVERAGE EFFICIENCY :	90.87%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-84
Manufacturer	SUPER MICRO COMPUTER, INC.
Model Number	PWS-1K41P-1R
Serial Number	N/A
Year	2009
Type	1U
Test Date	10/3/2009

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	13.5-7	Amps
Input Frequency	50-60	Hz
Rated Output Power	1,400	Watts

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

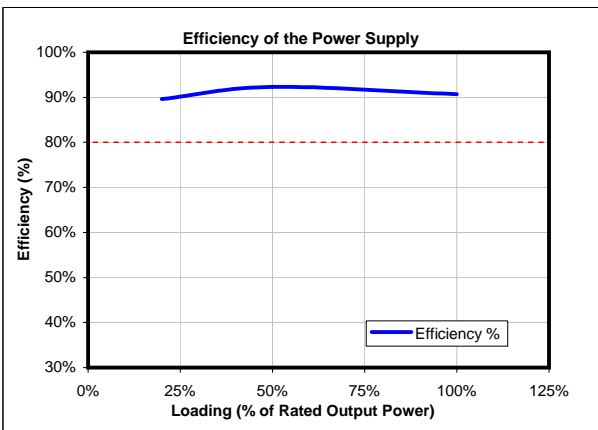
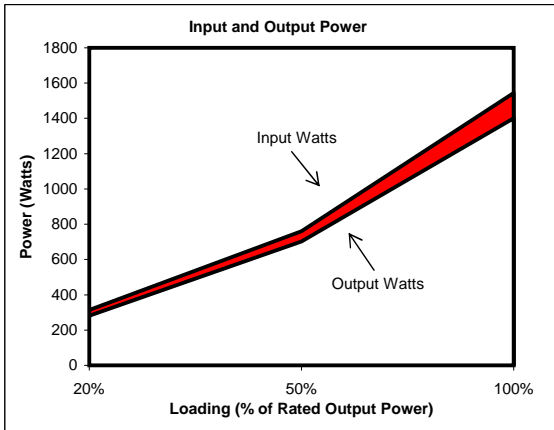


Input AC Current Waveform (ITHD = 5.05%, 100% Load)

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			
0.80	0.90	31.05	*10%	Low	166	15.13	12.02/11.52	5.06/0.4		140	84.47%
1.44	0.95	19.00	20%	Light	313	15.25	12.02/23.02	5.05/0.79		281	89.59%
3.35	0.99	8.80	50%	Typical	760	15.13	12.02/57.53	5.03/1.99		702	92.31%
6.76	0.99	5.05	100%	Full	1545	15.13	12.01/115.02	4.98/3.99		1402	90.72%

* 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 as a part 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 computing technology applications.

