

80 PLUS Verification and Testing Report

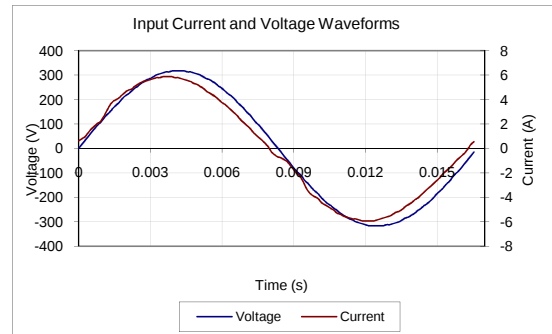
TYPICAL EFFICIENCY (50% Load):	94.37%
AVERAGE EFFICIENCY :	92.78%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-329.1
Manufacturer	Super Micro Computer, Inc.
Model Number	PWS-1K81P-1R
Serial Number	PWS-1K81P-1R
Year	2011
Type	1U
Test Date	9/16/2011

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-8.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	1,800	Watts

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

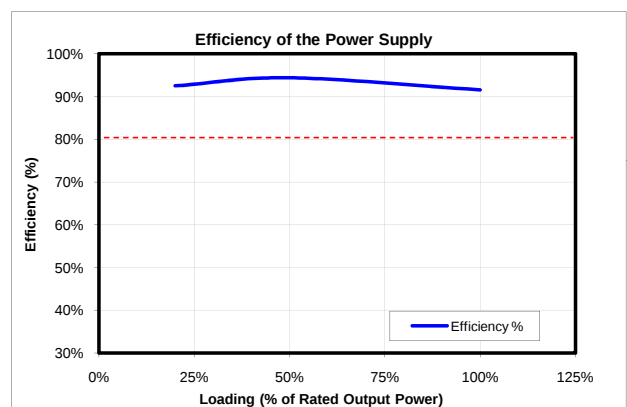
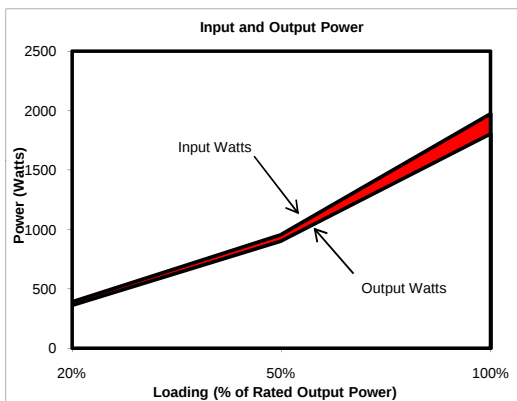


Input AC Current Waveform (ITHD = 6.1%, 50% Load)

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		
0.98	0.90	12.56	*10%	Low	202	1.44	12.04/14.84	5.15/0.4	181	89.49%
1.77	0.96	10.07	20%	Light	391	1.45	12.05/29.66	5.15/0.79	361	92.46%
4.21	0.99	6.10	50%	Typical	957	1.86	12.04/74.17	5.13/1.98	904	94.37%
8.61	1.00	3.33	100%	Full	1974	8.93	12.04/148.35	5.12/3.96	1806	91.50%

* 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/>

