

80 PLUS Verification and Testing Report

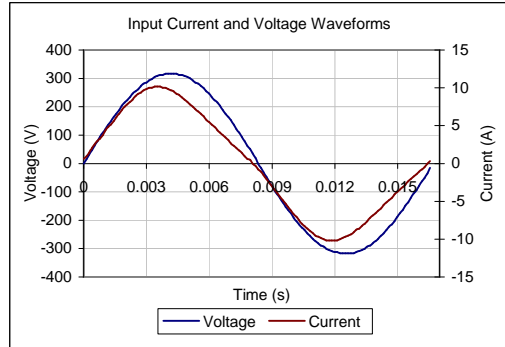
TYPICAL EFFICIENCY (50% Load):	92.51%
AVERAGE EFFICIENCY :	91.16%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-83
Manufacturer	SUPER MICRO COMPUTER
Model Number	PWS-1K41F-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	14.7-7.2	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.

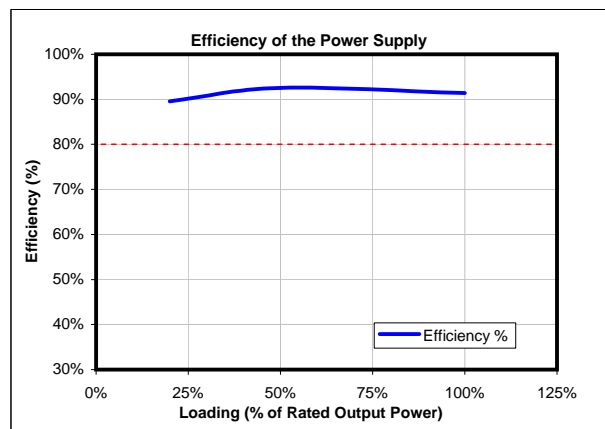
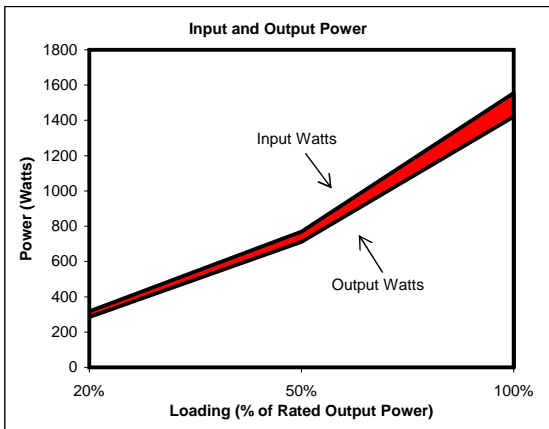


Input AC Current Waveform (ITHD = 8.45%, 100% Load)

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			
0.83	0.89	11.60	*10%	Low	169	14.64	12.19/11.43	5.02/0.59		142	84.02%
1.46	0.95	11.00	20%	Light	318	14.64	12.19/22.87	5.02/1.17		285	89.58%
3.42	0.98	9.01	50%	Typical	769	14.64	12.19/57.13	5/2.94		711	92.51%
6.84	0.99	8.45	100%	Full	1555	14.64	12.18/114.25	4.96/5.88		1421	91.39%

* 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.

