

# 80 PLUS Verification and Testing Report

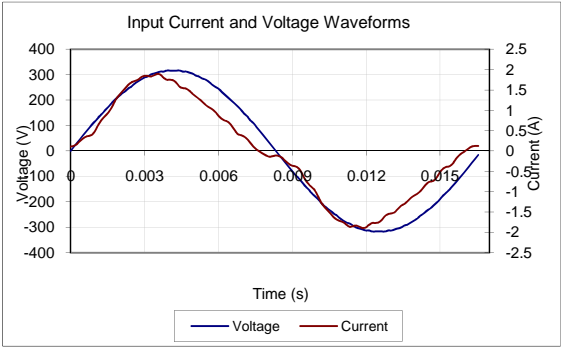
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>94.11%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>92.85%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-179.3
<b>Manufacturer</b>	SUPER MICRO COMPUTER INC.
<b>Model Number</b>	PWS-504P-1R
<b>Serial Number</b>	03672-0000-00
<b>Year</b>	2010
<b>Type</b>	1U
<b>Test Date</b>	8/16/2010

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6.1-2.6	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>500</b>	<b>Watts</b>

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

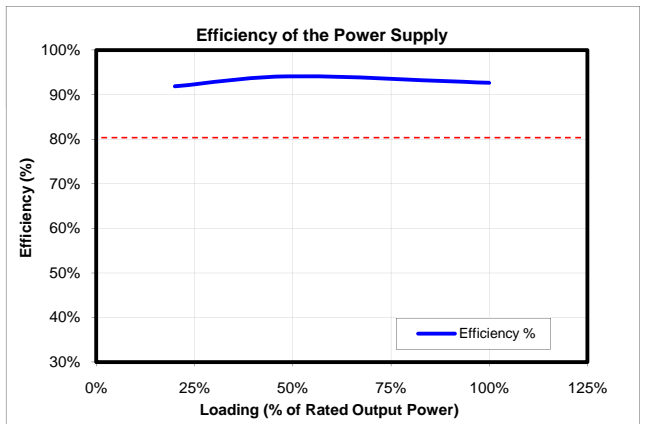
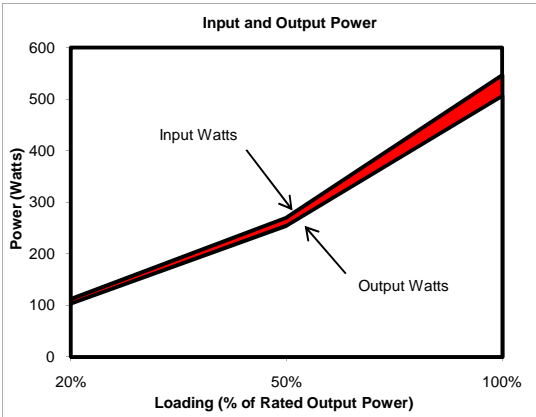


Input AC Current Waveform (ITHD = 16.11%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)**	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	5Vsb		
0.30	0.87	36.40	*10%	Low	60	0.00	12.31/4.05	5.14/0.29	51	86.16%
0.53	0.92	27.34	20%	Light	112	0.00	12.3/8.08	5.14/0.58	103	91.84%
1.22	0.97	16.11	50%	Typical	271	0.00	12.19/20.21	5.12/1.45	255	94.11%
2.43	0.98	12.09	100%	Full	547	0.00	12.13/40.49	5.07/2.9	507	92.61%

\* 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/>

