

# 80 PLUS Verification and Testing Report

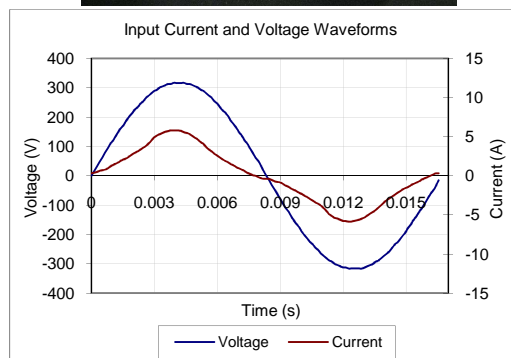
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>92.47%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>91.15%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-40.1
<b>Manufacturer</b>	COMPUWARE TECHNOLOGY INC.
<b>Model Number</b>	CPR-7211-1M1LF
<b>Serial Number</b>	N/A
<b>Year</b>	2008
<b>Type</b>	1U
<b>Test Date</b>	12/19/2008

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7.0-3.5	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>720</b>	<b>Watts</b>

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

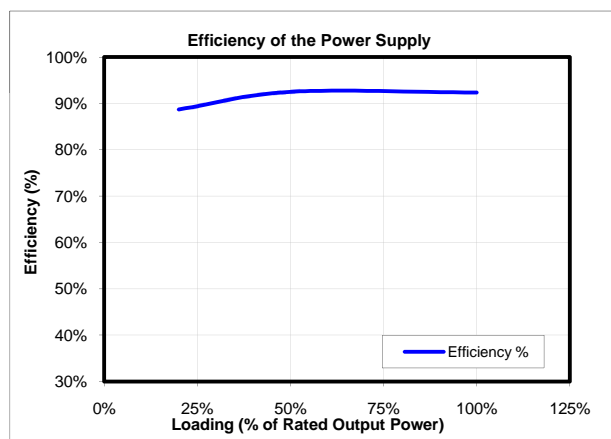
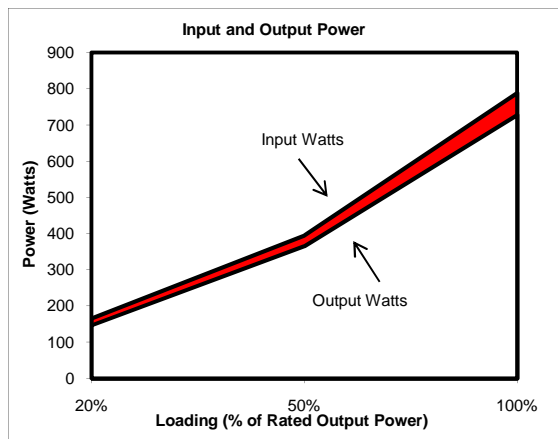


Input AC Current Waveform (ITHD = 21.54%, 100% Load)

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	0V		
0.52	0.74	30.60	*10%	Low	88	8.28	12.14/5.92	4.93/0.3	0/0	73	83.10%
0.82	0.88	27.82	20%	Light	165	8.28	12.19/11.79	4.92/0.6	0/0	147	88.66%
1.81	0.95	26.01	50%	Typical	395	8.35	12.17/29.43	4.9/1.5	0/0	365	92.47%
3.53	0.97	21.54	100%	Full	789	8.22	12.13/58.82	4.87/3	0/0	728	92.31%

\* 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/>

