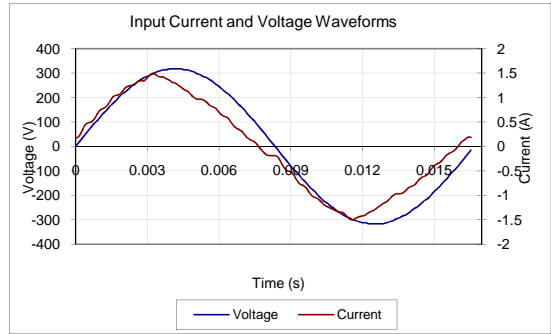


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>93.00%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>91.61%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-266
<b>Manufacturer</b>	Compuware Technology Inc.
<b>Model Number</b>	CPR-4011-4M1
<b>Serial Number</b>	N/A
<b>Year</b>	2011
<b>Type</b>	1U
<b>Test Date</b>	5/29/2011



Rated Specifications	Value	Units
Input Voltage	<b>100-240</b>	Volts
Input Current	<b>6.0-3.0</b>	Amps
Input Frequency	<b>50-60</b>	Hz
<b>Rated Output Power</b>	<b>400</b>	<b>Watts</b>

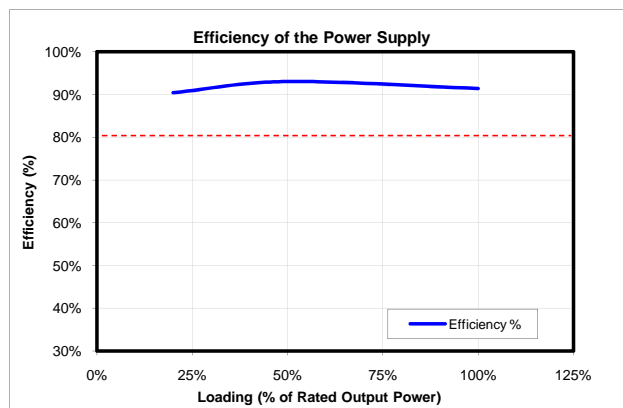
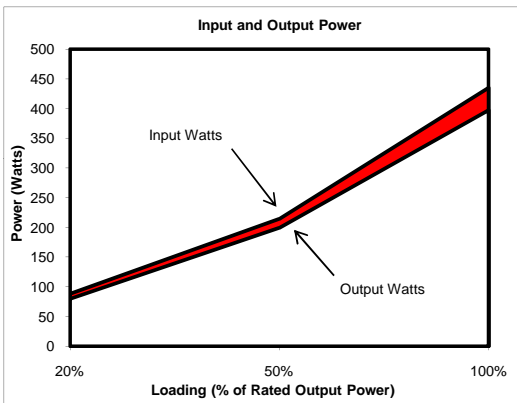
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

Input AC Current Waveform (ITHD = 8.79%, 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		
0.28	0.74	17.03	*10%	Low	47	0.84	12.01/3.22	5.03/0.29	40	84.72%
0.44	0.88	12.22	20%	Light	88	0.84	11.99/6.42	5.02/0.58	80	90.43%
0.96	0.97	8.79	50%	Typical	215	0.84	11.96/16.06	5/1.46	199	93.00%
1.91	0.99	6.47	100%	Full	435	3.24	11.93/32.13	4.96/2.92	398	91.40%

\* 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<sup>®</sup> 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/>

