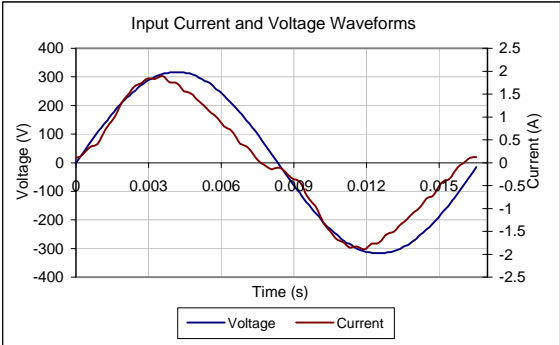


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	94.11%
AVERAGE EFFICIENCY :	92.85%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-179.1
Manufacturer	COMPUWARE TECHNOLOGY INC.
Model Number	CPR-5011-2M1LF
Serial Number	03672-0000-00
Year	2010
Type	1U
Test Date	8/16/2010



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

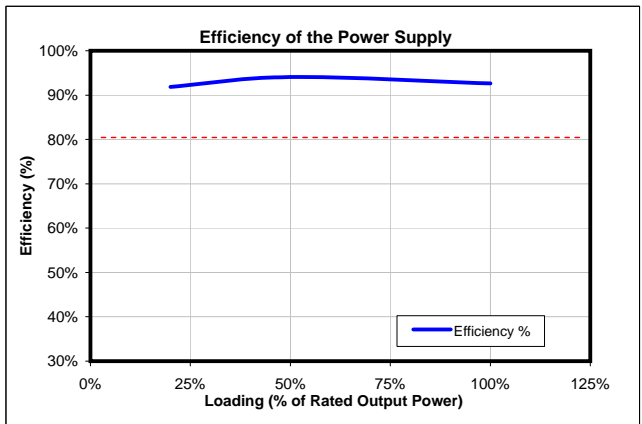
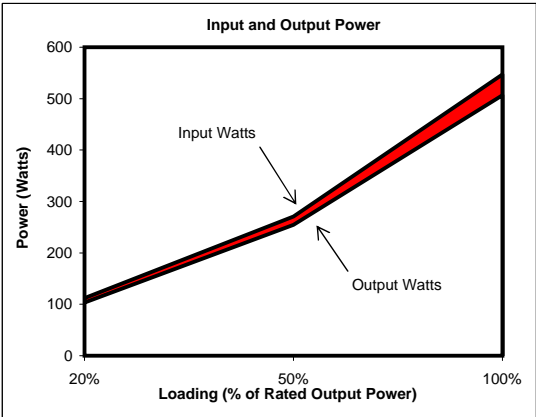
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6.1-2.6	Amps
Input Frequency	50-60	Hz
Rated Output Power	500	Watts

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

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		
0.30	0.87	36.40	*10%	Low	60	6.48	12.31/4.05	5.14/0.29	51	86.16%
0.53	0.92	27.34	20%	Light	112	6.48	12.3/8.08	5.14/0.58	103	91.84%
1.22	0.97	16.11	50%	Typical	271	6.48	12.19/20.21	5.12/1.45	255	94.11%
2.43	0.98	12.09	100%	Full	547	6.48	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/>

