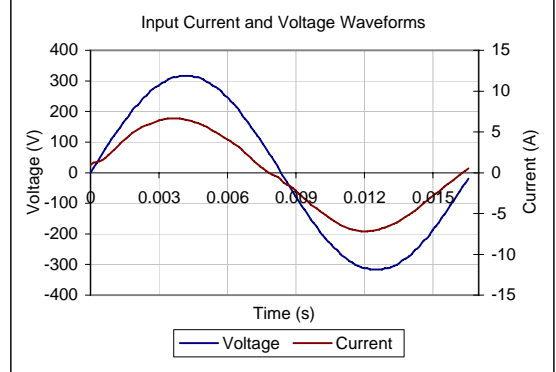


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>87.04%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>85.16%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-28
<b>Manufacturer</b>	IBM
<b>Model Number</b>	44V5097
<b>Serial Number</b>	N/A
<b>Year</b>	2008
<b>Type</b>	4U Server
<b>Test Date</b>	10/14/2008



Input AC Current Waveform (ITHD = 5.34%, 100% Load)

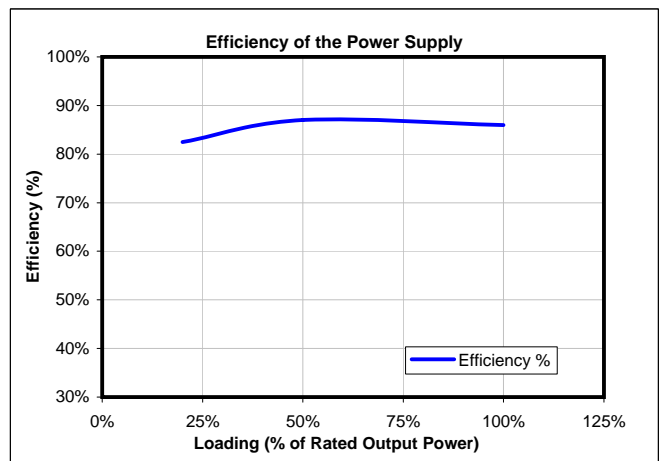
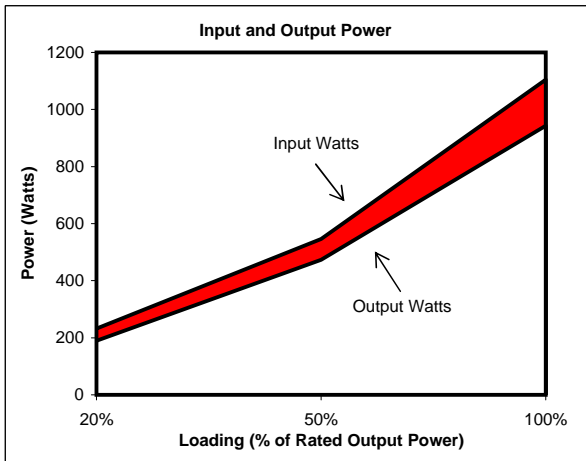
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7.0-3.5	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>950</b>	<b>Watts</b>

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

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	12VSB	5 VSB		
1.01	0.56	16.38	*10%	Low	130	2.20	12.18/7.57	12.28/0.2	5.21/0.02	95	73.94%
1.32	0.76	16.59	20%	Light	232	2.25	12.17/15.16	12.24/0.4	5.2/0.04	190	82.49%
2.54	0.93	7.65	50%	Typical	546	2.30	12.16/37.88	12.15/1	5.18/0.1	473	87.04%
4.91	0.98	5.34	100%	Full	1104	7.30	12.11/75.77	12/2.01	5.15/0.2	943	85.94%

\* 10% load results are for informative purposes only and not included in certification requirements.

\*\* Fan power is not included in the efficiency calculations



Tested by Electric Power Research Institute, Knoxville, TN.