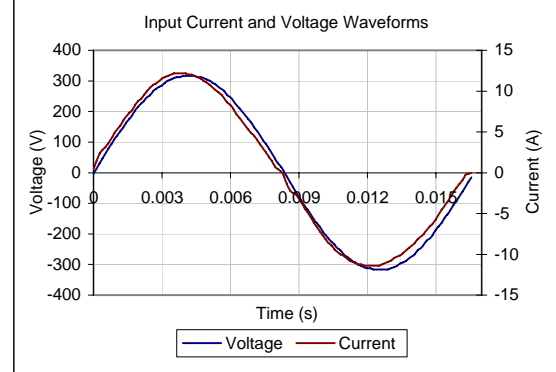


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	89.06%
AVERAGE EFFICIENCY :	87.23%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-29
Manufacturer	IBM
Model Number	44V4951
Serial Number	N/A
Year	2008
Type	4U Server
Test Date	10/15/2008



Input AC Current Waveform (ITHD = 0.9917%, 100% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7.0-3.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	1692	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	12VSB	5 VSB		
1.31	0.75	12.85	*10%	Low	226	5.20	12.28/13.64	12.16/0.22	5.17/0.02	170	77.13%
1.98	0.89	4.26	20%	Light	407	5.30	12.27/27.26	12.11/0.44	5.15/0.04	340	84.60%
4.28	0.97	3.46	50%	Typical	957	5.80	12.23/68.15	11.97/1.1	5.13/0.1	847	89.06%
8.45	0.82	0.99	100%	Full	1929	17.30	12.15/136.31	11.7/2.2	5.1/0.2	1683	88.03%

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

** Fan power is not included in the efficiency calculations

