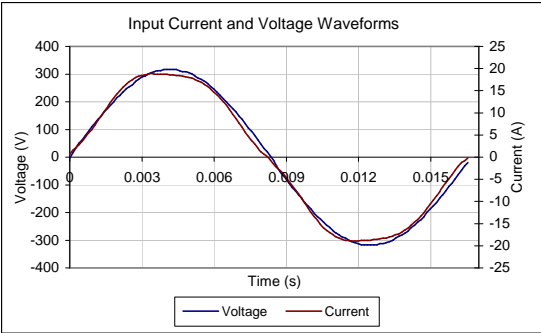


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	94.10%
AVERAGE EFFICIENCY :	92.99%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-188
Manufacturer	IBM
Model Number	39Y7414
Serial Number	11S39Y7414YK1651083001
Year	2010
Type	CUSTOM
Test Date	9/20/2010



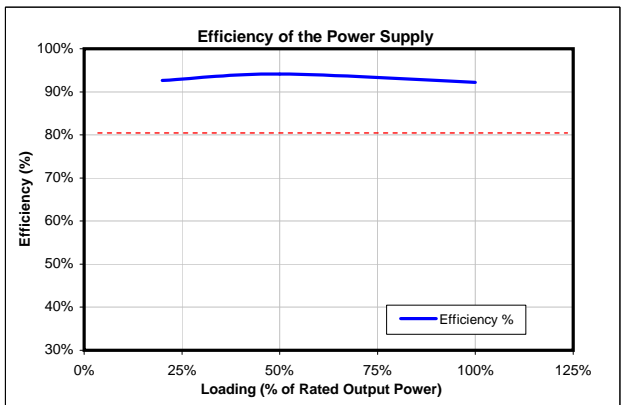
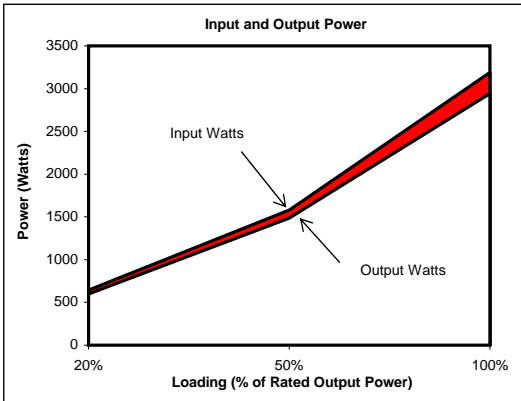
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	16	Amps
Input Frequency	47-63	Hz
Rated Output Power	2,980	Watts

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

Input AC Current Waveform (ITHD = 12.74%, 50% Load)

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 %
							12.2V	5Vsb		
1.54	0.95	24.39	*10%	Low	336	49.37	12.25/24.4	4.98/0.05	299	89.04%
2.89	0.97	21.83	20%	Light	645	49.25	12.23/48.81	4.96/0.1	597	92.67%
6.93	0.99	12.74	50%	Typical	1578	49.25	12.16/122.02	4.91/0.25	1485	94.10%
13.89	1.00	4.46	100%	Full	3191	49.13	12.05/244.01	4.83/0.5	2942	92.20%

* 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/>

