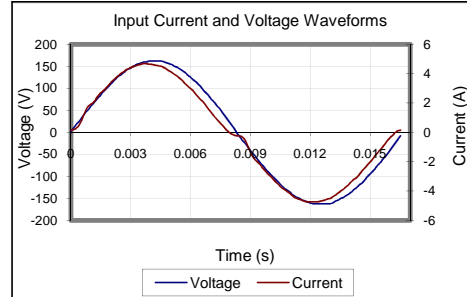


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	90.96%
AVERAGE EFFICIENCY :	89.42%
80 PLUS COMPLIANT:	YES



Ecos ID #	1590
Manufacturer	HEWLETT PACKARD
Model Number	PC8022
Serial Number	5ALULOAM5XO023
Year	2009
Type	CUSTOM
Test Date	8/19/2009

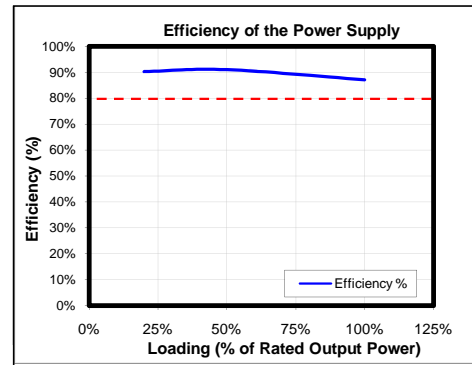
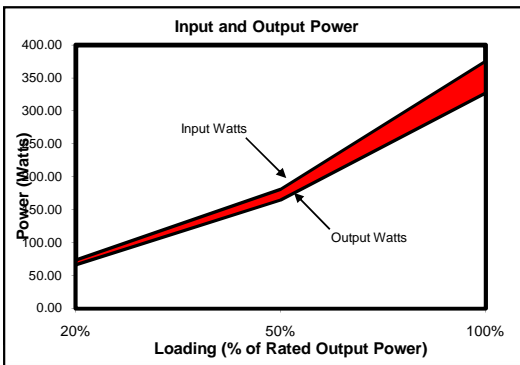


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	5.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	320	Watts

Note: All measurements were taken with input voltage at 115 V nominal and 60 Hz.

Input AC Current Waveform (ITHD = 12.13%, 50% Load)

I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)			Output Watts	Efficiency %
						12V (cumulative of 12V1, 12V2, etc.)	-12V	12VSB		
0.66	0.9736	20.26%	20%	Light	73.39	12.1/5.2	11.8/0	11.3/0.3	66.20	90.21%
1.59	0.9890	12.13%	50%	Typical	181.02	12/13	11.6/0.1	11.3/0.6	164.65	90.96%
3.29	0.9932	7.02%	100%	Full	375.70	11.9/26.1	11.8/0.1	11.2/1.3	327.23	87.10%



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/>

