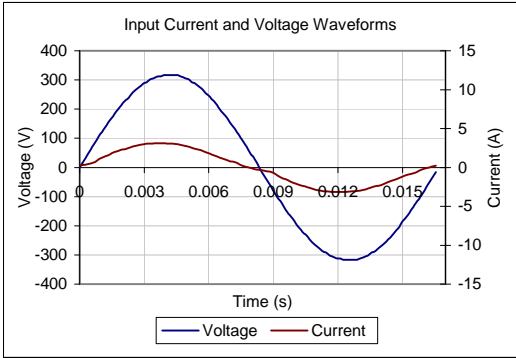


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	93.61%
AVERAGE EFFICIENCY :	92.44%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-43
Manufacturer	HEWLETT-PACKARD COMPANY
Model Number	499250-201
Serial Number	N/A
Year	2009
Type	1U CUSTOM
Test Date	1/31/2009



Input AC Current Waveform (ITHD = 9.26%, 100% Load)

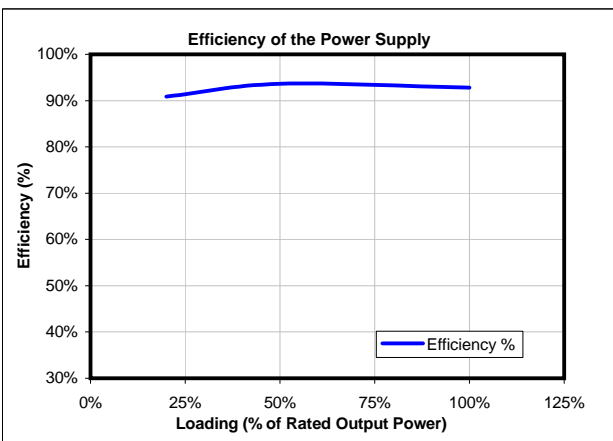
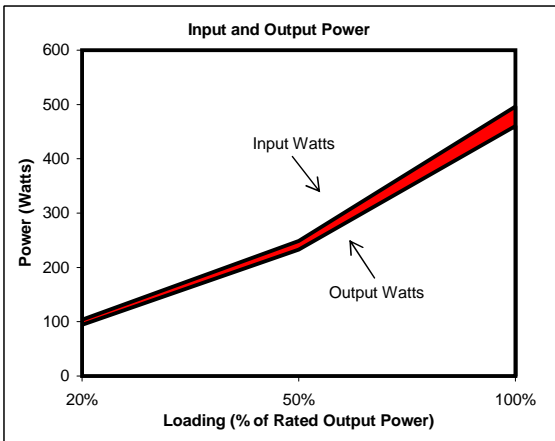
Rated Specifications		Value	Units
Input Voltage		100-240	Volts
Input Current		6.0-3.0	Amps
Input Frequency		50-60	Hz
Rated Output Power		460	Watts

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	0V		
0.39	0.62	34.50	*10%	Low	56	0.37	12.27/3.66	11.97/0.23	0/0	48	84.29%
0.55	0.82	23.30	20%	Light	104	0.37	12.23/7.25	11.97/0.47	0/0	94	90.90%
1.14	0.95	13.94	50%	Typical	249	0.37	12.14/18.05	11.95/1.17	0/0	233	93.61%
2.20	0.98	9.26	100%	Full	496	0.49	12/36.05	11.91/2.36	0/0	461	92.82%

* 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/>

