80 PLUS Verification and Testing Report

|	
TYPICAL EFFICIENCY (50% Load):	**94.12%**
AVERAGE EFFICIENCY :	**93.09%**
80 PLUS COMPLIANT:	**YES**

Ecos ID #	SO-322
Manufacturer	Hewlett-Packard Company
Model Number	643955-101
Serial Number	5BXRB0A4D0Y04H
Year	2011
Type	1U
Test Date	8/31/2011

Rated Specifications	Value	Units
Input Voltage	**100-240**	Volts
Input Current	**9-4.5**	Amps
Input Frequency	**50-60**	Hz
Rated Output Power	**750**	Watts

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

Input Current and Voltage Waveforms
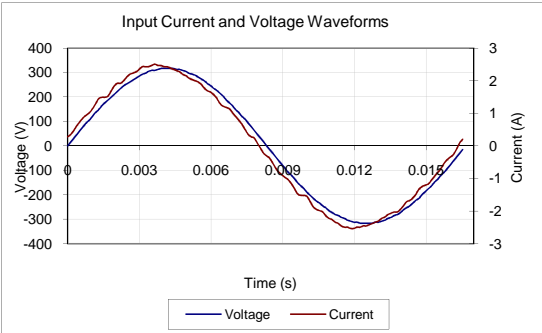
Input AC Current Waveform (ITHD = 3.38%, 50% Load)

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 %
							12V	12Vsb		
0.39	0.96	5.34	*10%	Low	87	0.36	12.29/6.02	11.98/0.24	77	**88.68%**
0.74	0.97	4.27	20%	Light	165	0.36	12.26/12.02	11.94/0.48	153	**92.81%**
1.76	0.99	3.38	50%	Typical	404	0.36	12.16/30.05	11.86/1.2	380	**94.12%**
3.54	1.00	3.35	100%	Full	812	0.96	12.01/60.09	11.71/2.4	750	**92.33%**

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

** Fan power is not included in the efficiency calculations

Input and Output Power

Efficiency of the Power Supply
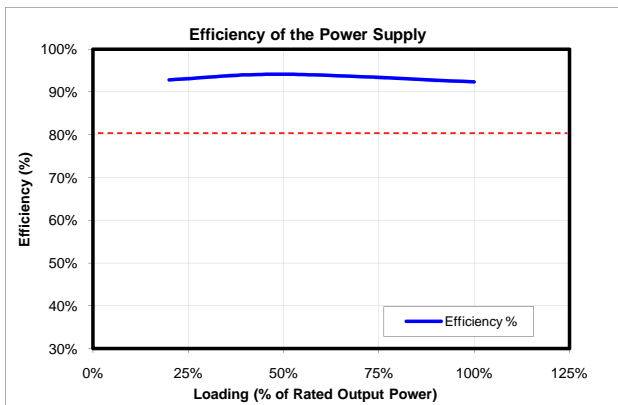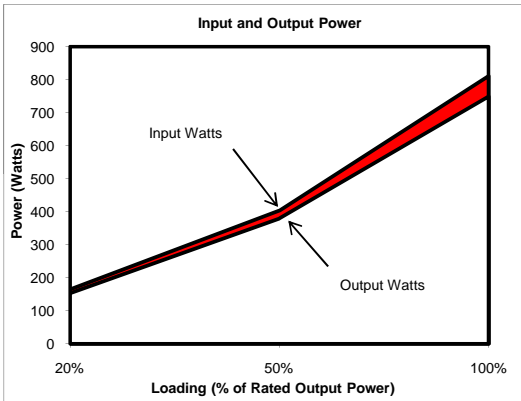
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS® Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. http://www.80plus.org/