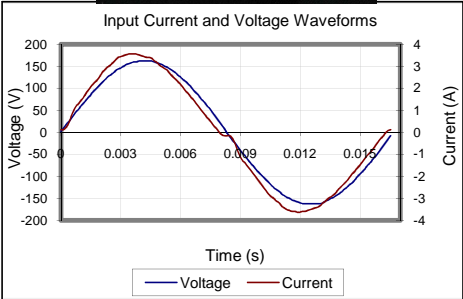


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	90.35%
AVERAGE EFFICIENCY :	88.75%
80 PLUS COMPLIANT:	YES



Ecos ID #	1587
Manufacturer	HEWLETT PACKARD
Model Number	PC8019
Serial Number	5ALUP0AG5XO031
Year	2009
Type	CUSTOM
Test Date	8/18/2009

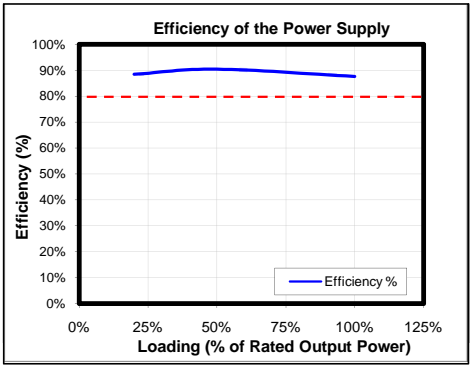
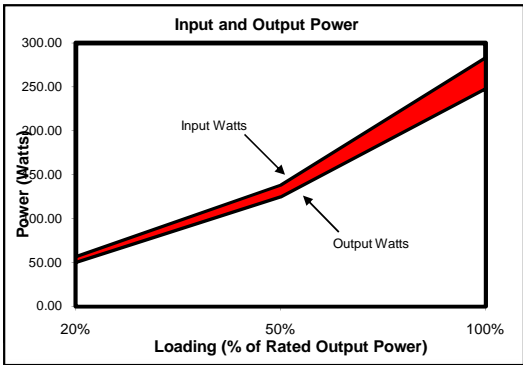


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	4	Amps
Input Frequency	50-60	Hz
Rated Output Power	240	Watts

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

Input AC Current Waveform (ITHD = 13.01%, 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		
0.51	0.9653	20.76%	20%	Light	56.59	12.1/3.9	12/0	11.5/0.3	50.01	88.38%
1.22	0.9859	13.01%	50%	Typical	138.09	12/9.7	11.7/0.1	11.4/0.6	124.77	90.35%
2.49	0.9907	7.34%	100%	Full	283.50	12/19.4	11.7/0.1	11.4/1.3	248.14	87.53%



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.



Tested by Electric Power Research Institute, Knoxville, TN.