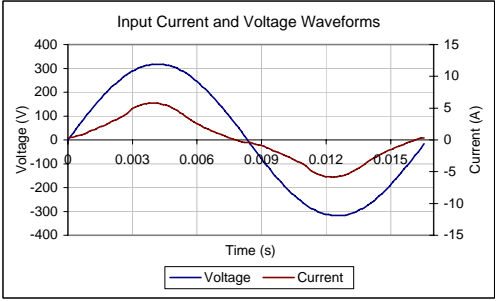


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>92.00%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>91.10%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-41
<b>Manufacturer</b>	HEWLETT PACKARD
<b>Model Number</b>	499243-B21
<b>Serial Number</b>	ATSN 7001503-J000
<b>Year</b>	2009
<b>Type</b>	CUSTOM
<b>Test Date</b>	1/14/2009



Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	13.7	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>2,450</b>	<b>Watts</b>

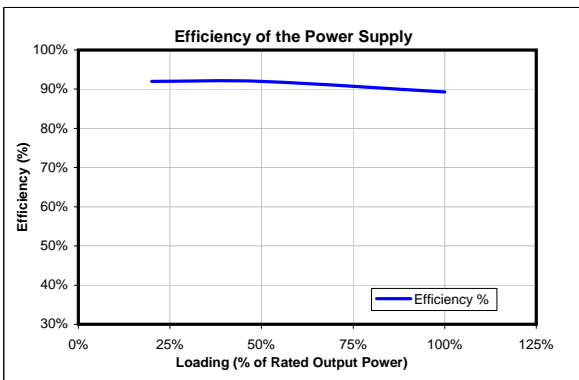
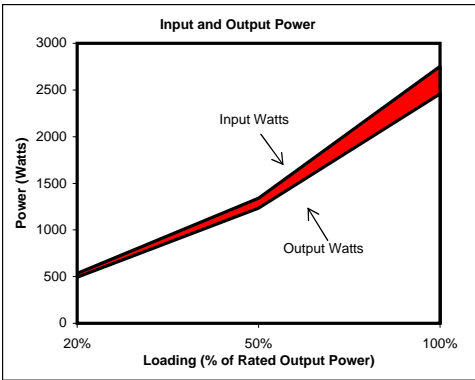
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

Input AC Current Waveform (ITHD = 5.33%, 100% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)**	DC Terminal Voltage (V)/ DC Load Current (A)			Output Watts	Efficiency %
							12V	5Vsb	0V		
1.32	0.920	12.04	*10%	Low	278	1.26	12.3/20.07	5.09/0.1	0/0	247	86.84%
2.40	0.973	5.69	20%	Light	536	1.89	12.28/40.11	5.07/0.2	0/0	493	92.00%
5.88	0.992	5.34	50%	Typical	1341	2.27	12.28/100.25	5.04/0.5	0/0	1234	92.00%
12.02	0.996	5.33	100%	Full	2752	19.30	12.24/200.42	4.98/1	0/0	2457	89.29%

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

\*\* Fan power is not included in the efficiency calculations



Tested by Electric Power Research Institute, Knoxville, TN.

