

80 PLUS Verification and Testing Report

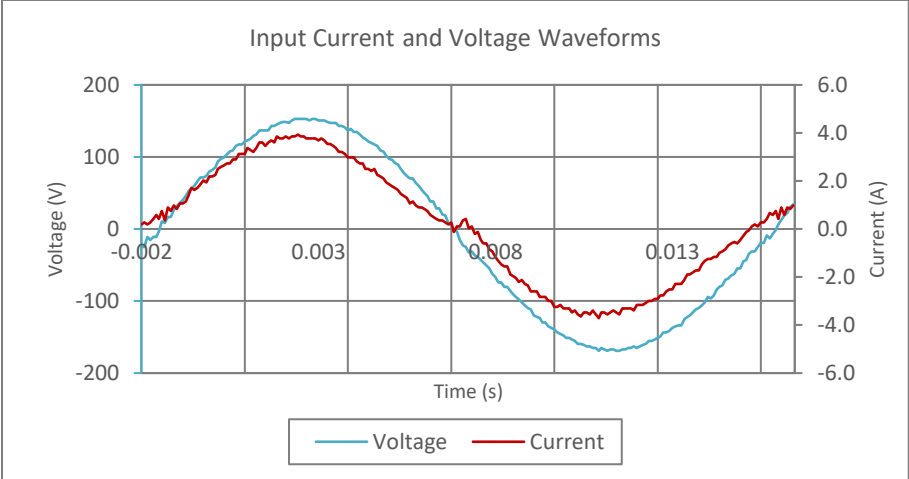
TYPICAL EFFICIENCY (50% Load):	88.89%
AVERAGE EFFICIENCY :	87.02%
80 PLUS COMPLIANT:	YES



ID Number	5315
Manufacturer	HP Inc.
Model Number	PS-4501-2
Serial Number	N/A
Year	2018
Type	ATX12V
Test Date	6/4/18

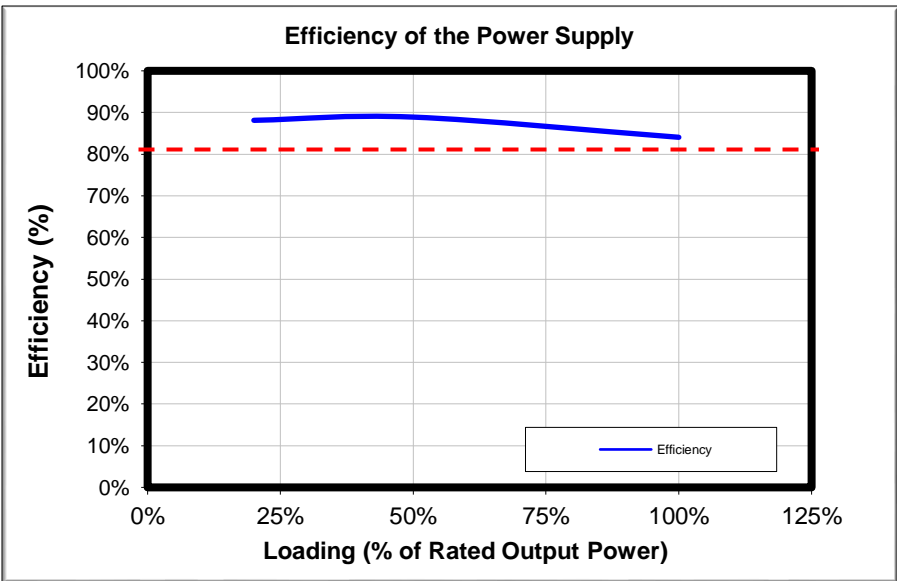
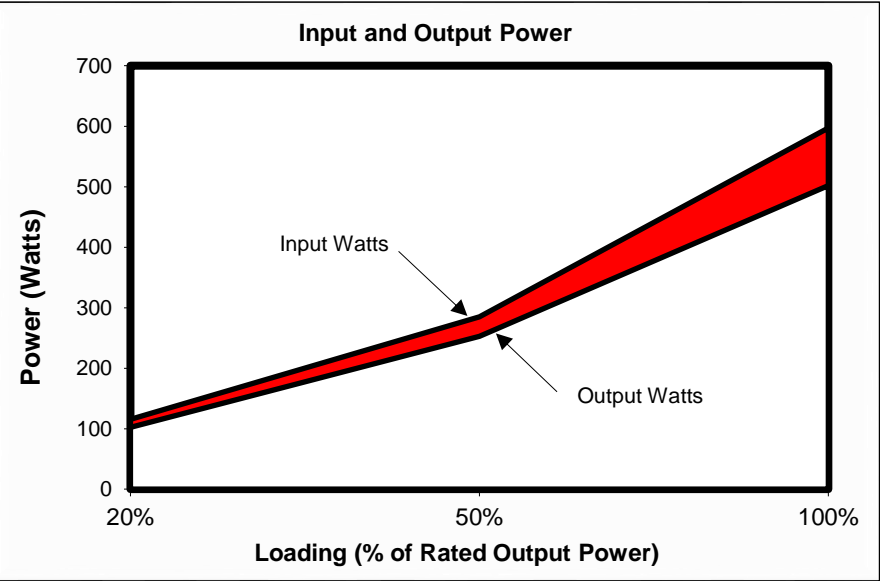
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	500	Watts

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



Input AC Current Waveform (ITHD = 8.52%, 50% Load)

I _{RMS}	PF	I _{THD}	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)				Output Watts	Efficiency	
					12V (cumulative of 12V1, 12V2, etc.)		3.3V	5.08V			5.08Vsb
0.58	0.90	9.42%	10%	60.60	12.19/3.33		3.33/0.66	5.12/1.24	5.17/0.33	50.85	83.90%
1.06	0.95	8.83%	20%	115.42	12.17/6.67		3.32/1.33	5.12/2.48	5.15/0.66	101.70	88.12%
2.52	0.98	8.52%	50%	284.50	12.13/16.66		3.32/3.31	5.1/6.17	5.11/1.66	252.89	88.89%
5.24	0.99	6.50%	100%	597.00	12.05/33.25		3.29/6.63	5.07/12.32	5.04/3.31	501.75	84.05%



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/>

