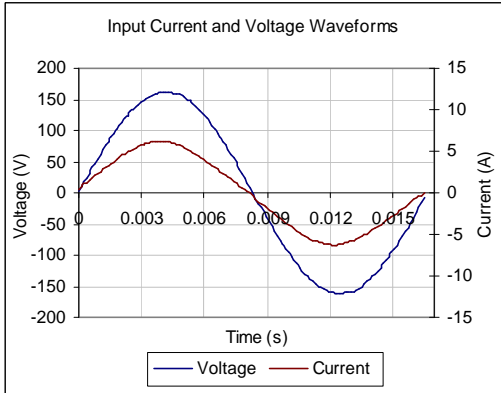


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>83.27%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>81.76%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	148
<b>Manufacturer</b>	High Power
<b>Model Number</b>	HP-400-G12S
<b>Serial Number</b>	N/A
<b>Year</b>	2006
<b>Type</b>	ATX12V
<b>Test Date</b>	1/3/2007

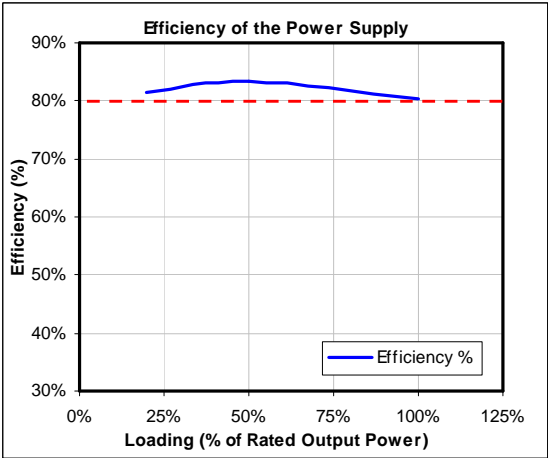
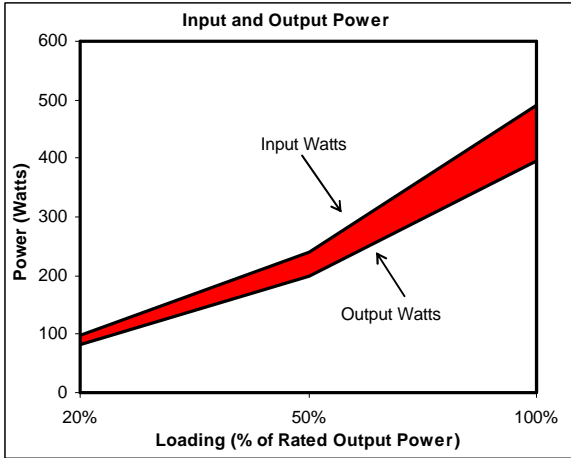


Input AC Current Waveform (ITHD = 4.6%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	115-230	Volts
Input Current	6	Amps
Input Frequency	50/60	Hz
<b>Rated Output Power</b>	<b>400</b>	<b>Watts</b>

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

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)						Output Watts	Efficiency %
						12V1	12V2	-12V	3.3V	5V*	5VSB		
0.89	0.97	9.8%	20%	Light	99	12.1/2.4	12.1/2.2	12.5/0.1	3.3/3.2	5.1/2.3	5.2/0.4	81	81.55%
2.11	0.99	4.6%	50%	Typical	240	12.1/6	12.1/5.5	12.6/0.1	3.2/8.1	5/5.7	5.1/1.1	200	83.27%
4.30	1.00	4.3%	100%	Full	492	12/11.9	12/11	12.6/0.3	3.1/16.3	4.9/11.4	5.1/2.1	396	80.47%



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/>

