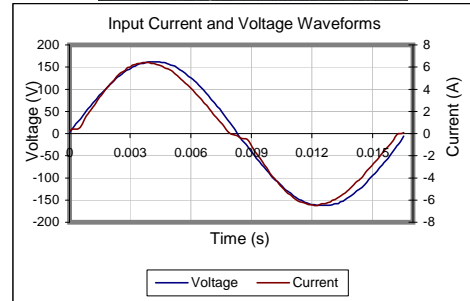


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	83.82%
AVERAGE EFFICIENCY :	81.81%
80 PLUS COMPLIANT:	YES



Ecos ID #	1753
Manufacturer	HIGH POWER ELECTRONICS CO., LTD.
Model Number	HPC-400-G12/G14S(C)
Serial Number	N/A
Year	2009
Type	ATX12V
Test Date	11/30/2009

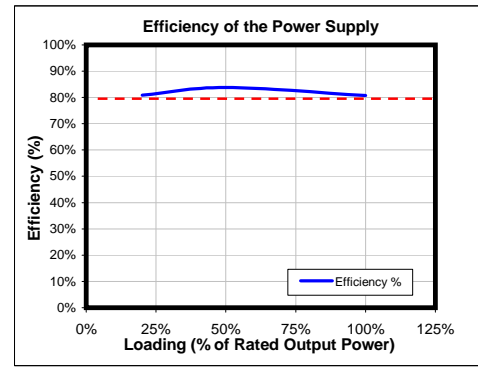
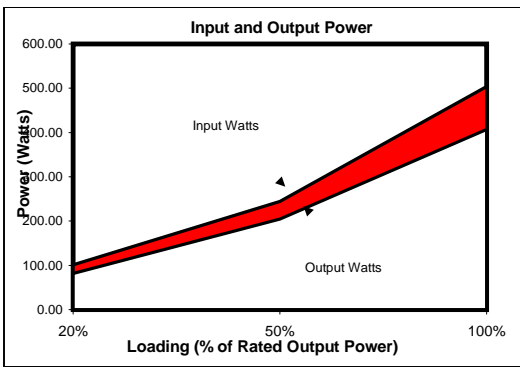


Input AC Current Waveform (ITHD = 11.08%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	115-230	Volts
Input Current	5.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	400	Watts

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

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.)										
0.90	0.9776	16.42%	20%	Light	101.42	12.3/4.6					12.1/0.1	3.4/2.9	5.1/2.4	5.1/0.5	82.01	80.86%
2.14	0.9908	11.08%	50%	Typical	244.18	12.3/11.5					12.2/0.1	3.3/7.3	5/6.1	5.1/1.1	204.67	83.82%
4.41	0.9936	9.38%	100%	Full	504.10	12.3/23					12.4/0.3	3.3/14.7	4.9/12.2	5/2.3	407.05	80.75%



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/>

