

80 PLUS Verification and Testing Report

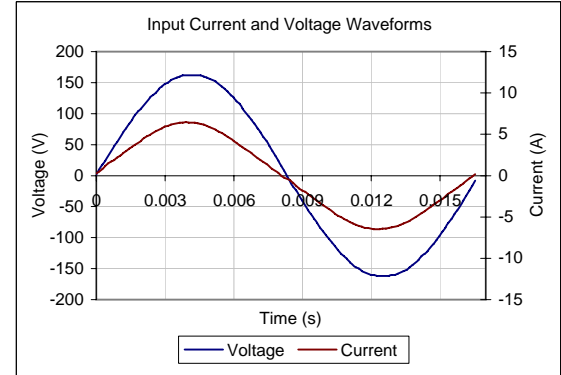
TYPICAL EFFICIENCY (50% Load):	84.22%
AVERAGE EFFICIENCY :	82.40%
80 PLUS COMPLIANT:	YES



Ecos ID #	582
Manufacturer	2THEMAX
Model Number	GPA-420
Serial Number	NA
Year	2008
Type	ATX12V
Test Date	3/3/2008

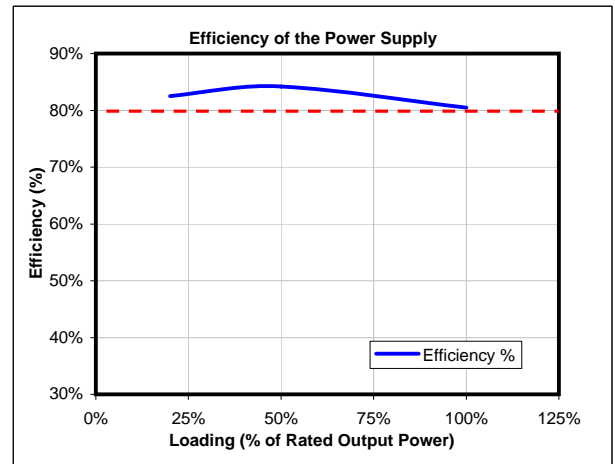
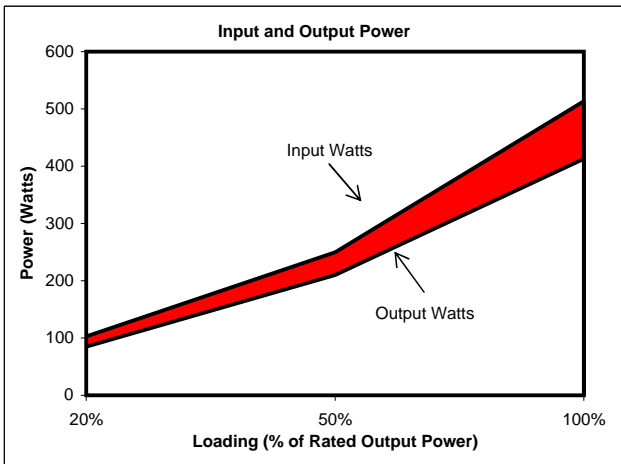
Rated Specifications	Value	Units
Input Voltage	115/230	Volts
Input Current	5	Amps
Input Frequency	50/60	Hz
Rated Output Power	420	Watts

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



Input AC Current Waveform (ITHD = 6.34%, 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	3.3V	5V*	5VSB		
0.91	0.98	6.0%	20%	Light	103	12.1/5	12.2/0.1	3.3/3	5/2.1	5.1/0.6	85	82.53%
2.18	0.99	6.3%	50%	Typical	249	12/12.5	12.3/0.1	3.2/7.5	5/5.3	5/1.5	210	84.22%
4.48	1.00	5.0%	100%	Full	513	11.8/25	12.4/0.3	3.2/14.9	4.9/10.7	4.9/3	413	80.45%



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/>

