80 PLUS Verification and Testing Report

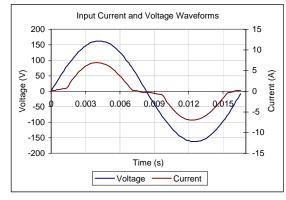
TYPICAL EFFICIENCY (50% Load): 86.83%
AVERAGE EFFICIENCY: 85.17%
80 PLUS COMPLIANT: YES



Ecos ID #	969.1			
Manufacturer	SIGMA PRODUCT INC			
Model Number	SP-400AB			
Serial Number	NA			
Year	2008			
Туре	ATX12V			
Test Date	9/30/2008			

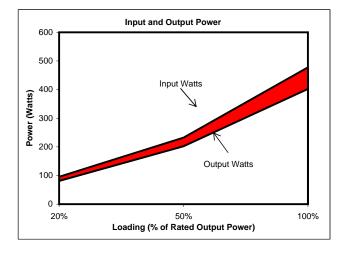
Rated Specifications	Value	Units
Input Voltage	115-230	Volts
Input Current	5-8	Amps
Input Frequency	50-60	Hz
Rated Output Power	400	Watts

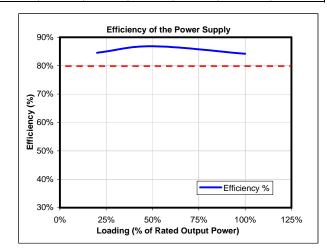
Note: All measurements were taken with input voltage at 115 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 31.05%, 50% Load)

I _{RMS}	PF	I _{THD} (%)	Load	Fraction	Input	DC Terminal Voltage (V)/ DC Load Current (A)						Efficiency
Α			(%)	of Load	Watts	12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V*	5VSB	Watts	%
0.84	0.99	10.0%	20%	Light	96	12.1/5	11.7/0.1	3.3/2.2	5/2	5.1/0.4	81	84.51%
2.13	0.95	31.1%	50%	Typical	233	12.1/12.6	11.8/0.1	3.3/5.5	5/5	5.1/1	202	86.83%
4.32	0.96	26.7%	100%	Full	478	12.1/25.1	11.9/0.3	3.3/11	5/10	5/2	402	84.17%







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/



Tested by Electric Power Research Institute, Knoxville, TN.