

80 PLUS Verification and Testing Report

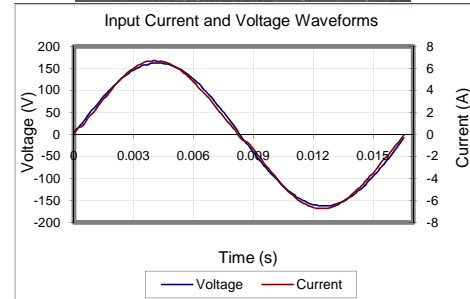
TYPICAL EFFICIENCY (50% Load):	86.61%
AVERAGE EFFICIENCY :	85.15%
80 PLUS COMPLIANT:	YES



Ecos ID #	1756
Manufacturer	SUPER FLOWER COMPUTER INC.
Model Number	SF-450P14HE
Serial Number	S0910012002
Year	2009
Type	EPS12V
Test Date	1/1/2009

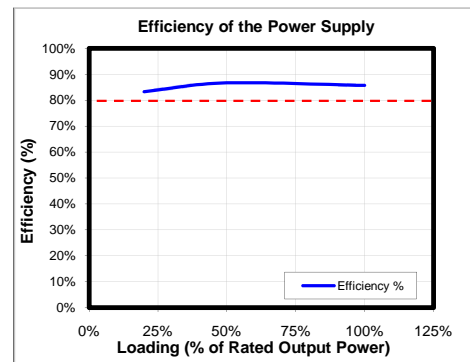
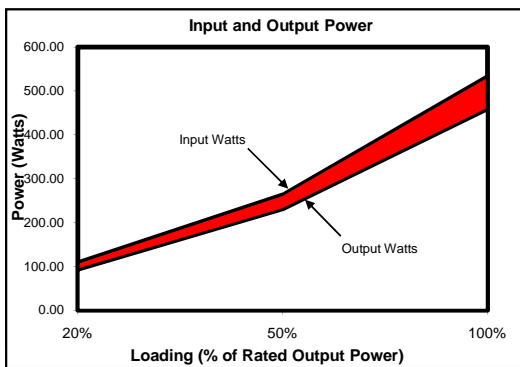
Rated Specifications	Value	Units
Input Voltage	115-240	Volts
Input Current	8	Amps
Input Frequency	60/50	Hz
Rated Output Power	450	Watts

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



Input AC Current Waveform (ITHD = 5.93%, 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
1.00	0.9563	7.58%	20%	Light	110.24	12.2/5.5		11.9/0.1	3.4/2.2	5.1/2.6	5/0.5	91.74	83.22%
2.34	0.9848	5.93%	50%	Typical	265.00	12.2/13.8		11.9/0.2	3.4/5.5	5.1/6.6	5/1.2	229.51	86.61%
4.69	0.9917	4.93%	100%	Full	534.80	12.2/27.7		11.8/0.4	3.4/11	5.1/13.2	5/2.4	457.89	85.62%



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/>

