

80 PLUS Verification and Testing Report

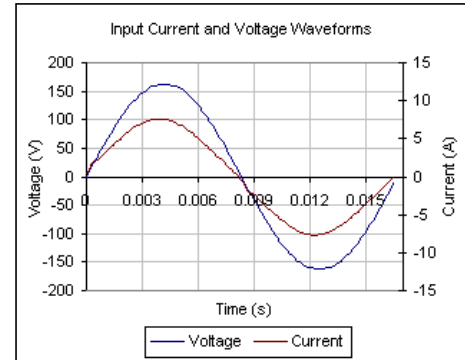
TYPICAL EFFICIENCY (50% Load):	83.33%
AVERAGE EFFICIENCY :	81.50%
80 PLUS COMPLIANT:	YES



Ecos ID #	49
Manufacturer	Topower
Model Number	Top-520-P3
Serial Number	Pre-production sample
Year	2006
Type	ATX12V
Test Date	3/28/2006

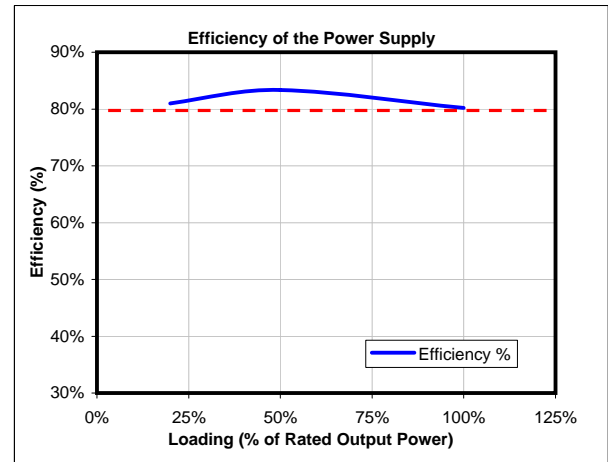
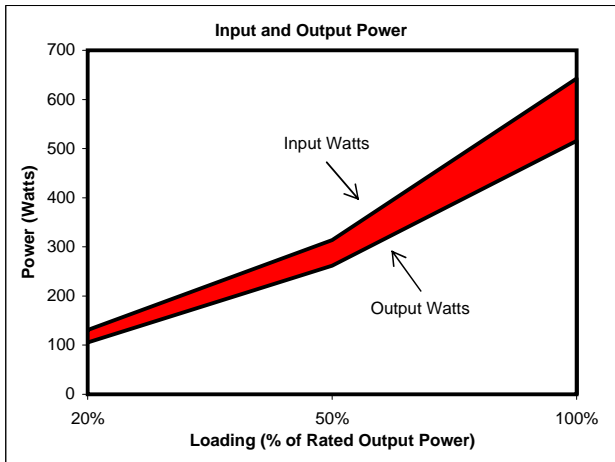
Rated Specifications	Value	Units
Input Voltage	100 - 240	Volts
Input Current	12 - 6	Amps
Input Frequency	60 - 50	Hz
Rated Output Power	520	Watts

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



Input AC Current Waveform ($I_{THD} = 12.6\%$, 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 %
						12V1	12V2	-12V	3.3V	5V*	5VSB		
1.15	0.99	7.1%	20%	Light	131	12.2/3.2	12.2/3.2	12.2/0.1	3.4/3.0	5.1/2.9	5.1/0.4	106	80.99%
2.74	0.99	3.4%	50%	Typical	314	12.2/8.0	12.1/8.0	12.2/0.2	3.3/7.5	5.0/7.1	5.0/0.9	262	83.33%
5.61	1.00	3.1%	100%	Full	643	12.0/16.0	11.9/16.0	12.3/0.5	3.2/15.0	5.0/14.3	4.9/1.8	515	80.19%



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and small servers.



Tested by EPRI Solutions Inc., Knoxville, TN.