

# 80 PLUS Verification and Testing Report

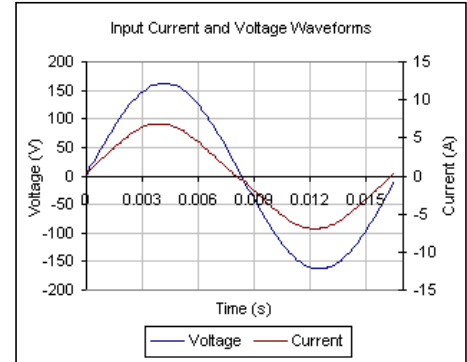
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>83.66%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>81.66%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	48
<b>Manufacturer</b>	Topower
<b>Model Number</b>	Top-470-P3
<b>Serial Number</b>	Pre-production sample
<b>Year</b>	2006
<b>Type</b>	ATX12V
<b>Test Date</b>	3/28/2006

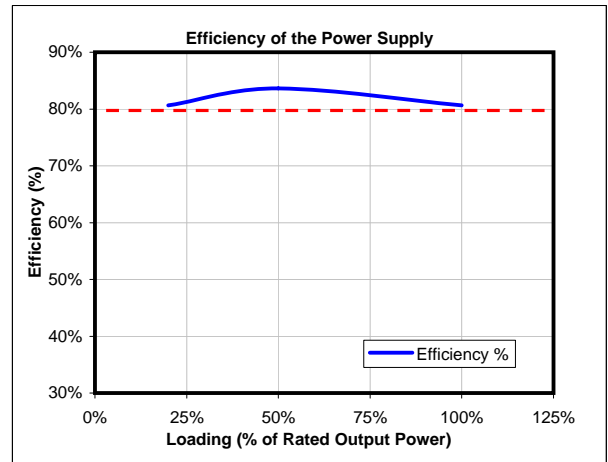
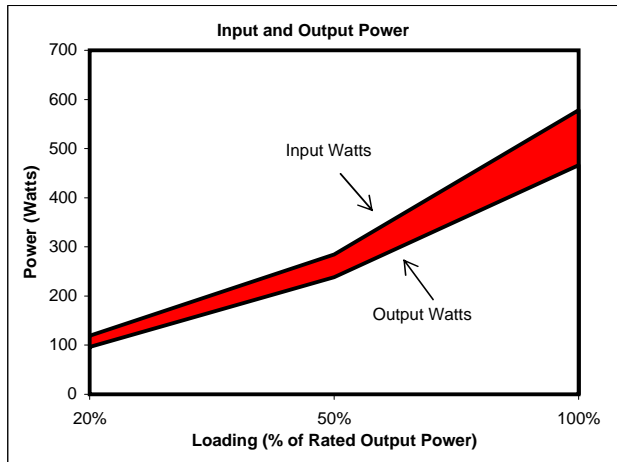
Rated Specifications	Value	Units
Input Voltage	100 - 240	Volts
Input Current	8 - 4	Amps
Input Frequency	60 - 50	Hz
<b>Rated Output Power</b>	<b>470</b>	<b>Watts</b>

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



Input AC Current Waveform ( $I_{THD} = 8.3\%$ , 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		
1.05	0.98	13.3%	20%	Light	119	12.3/2.9	12.3/2.8	12.5/0.1	3.4/2.8	5.1/2.7	5.1/0.3	96	80.67%
2.49	0.99	8.3%	50%	Typical	285	12.3/7.2	12.2/7.0	12.6/0.3	3.3/7.0	5.0/6.7	5.0/0.8	238	83.66%
5.04	1.00	6.1%	100%	Full	578	12.1/14.5	11.9/14.0	12.6/0.5	3.2/14.1	4.9/13.5	4.9/1.6	466	80.65%



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.