

# 80 PLUS Verification and Testing Report

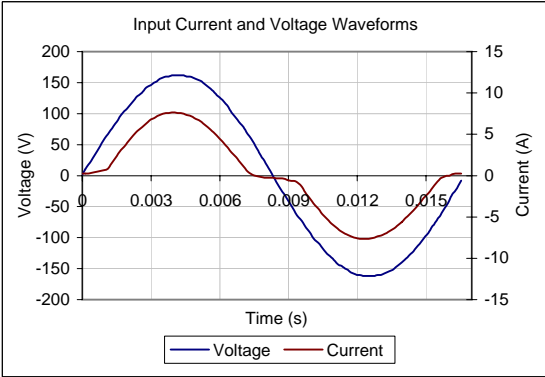
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>85.07%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>83.43%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	908.1
<b>Manufacturer</b>	BFG TECHNOLOGIES
<b>Model Number</b>	BFG LS-450
<b>Serial Number</b>	NA
<b>Year</b>	2008
<b>Type</b>	ATX12V
<b>Test Date</b>	9/18/2008

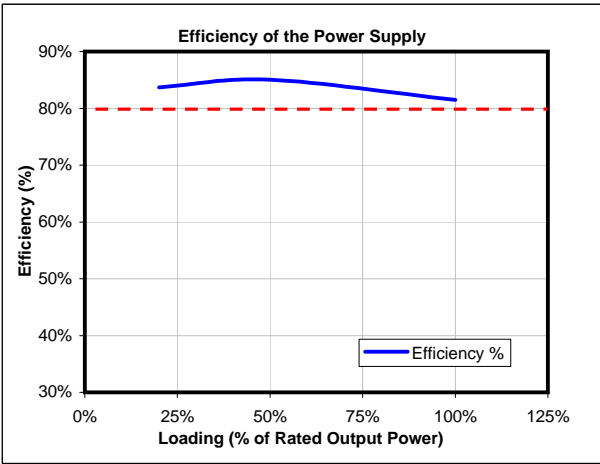
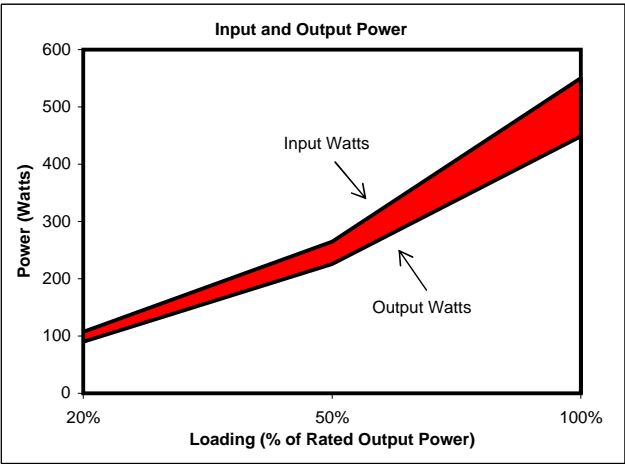
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	60-50	Hz
<b>Rated Output Power</b>	<b>450</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 26.73%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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		
0.94	0.99	9.9%	20%	Light	108	11.9/5.6	11.5/0	3.4/2.7	5.1/2.2	5.1/0.4	90	83.71%
2.39	0.96	26.7%	50%	Typical	265	12/14.1	11.6/0.1	3.3/6.8	5/5.6	5/1	225	85.07%
4.90	0.97	21.7%	100%	Full	550	12/28.1	11.8/0.2	3.3/13.5	4.9/11.2	5/2	448	81.52%



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 desktop-derived servers.



Tested by Electric Power Research Institute, Knoxville, TN.