

# 80 PLUS Verification and Testing Report

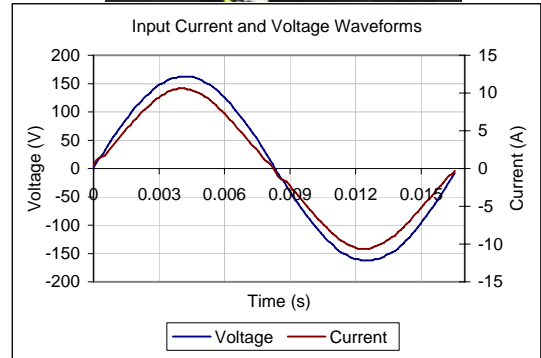


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>85.67%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>83.63%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	1215
<b>Manufacturer</b>	BFG TECHNOLOGIES
<b>Model Number</b>	LS-680
<b>Serial Number</b>	N/A
<b>Year</b>	2009
<b>Type</b>	EPS12V
<b>Test Date</b>	1/7/2009

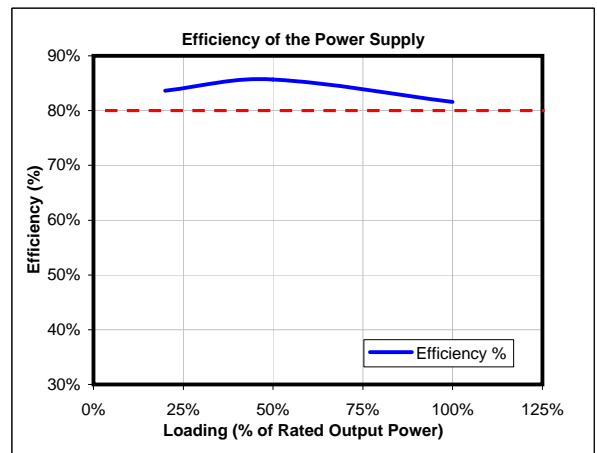
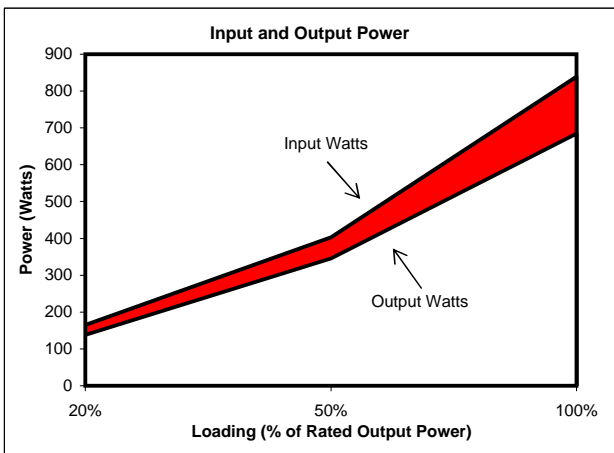
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8.5/3.5	Amps
Input Frequency	60/50	Hz
<b>Rated Output Power</b>	<b>680</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 6.67%, 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		
1.46	0.98	7.9%	20%	Light	165	12.2/8.7	12/0.1	3.3/3	5.1/3.7	5/0.5	138	83.62%
3.52	1.00	6.7%	50%	Typical	404	12.2/21.8	12.1/0.2	3.3/7.4	5.1/9.3	5/1.3	346	85.67%
7.31	1.00	5.3%	100%	Full	839	12.1/43.4	12.2/0.4	3.3/14.8	5/18.6	5/2.5	685	81.61%



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.