

# 80 PLUS Verification and Testing Report

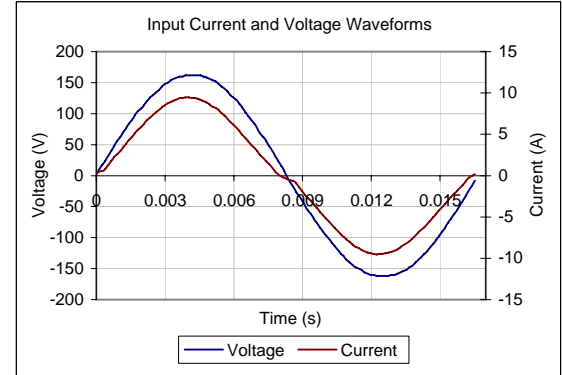
**TYPICAL EFFICIENCY (50% Load):** 84.22%  
**AVERAGE EFFICIENCY :** 82.34%  
**80 PLUS COMPLIANT:** YES



<b>Ecos ID #</b>	534.1
<b>Manufacturer</b>	FSP
<b>Model Number</b>	FSP580-80GCM
<b>Serial Number</b>	NA
<b>Year</b>	2008
<b>Type</b>	ATX12V & EPS12V
<b>Test Date</b>	2/5/2008

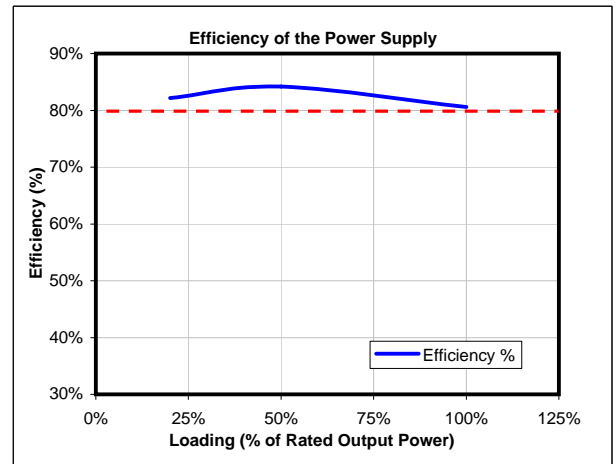
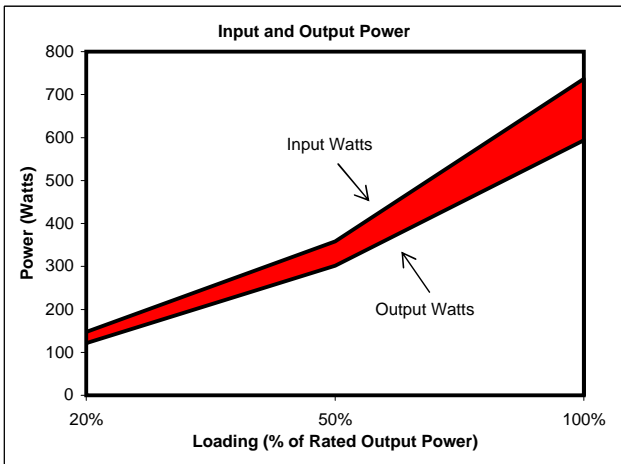
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9.5	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>600</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 14.2%, 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		
1.31	0.98	16.6%	20%	Light	148	12.1/7	12.1/0.2	3.3/4.1	5.1/3.4	5/0.6	121	82.18%
3.16	0.99	14.2%	50%	Typical	358	12.1/17.6	12.1/0.4	3.3/10.4	5/8.6	4.9/1.5	302	84.22%
6.43	1.00	8.7%	100%	Full	737	12/35.1	12/0.8	3.1/20.6	4.9/17.3	4.7/3.1	594	80.62%



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.