

# 80 PLUS Verification and Testing Report

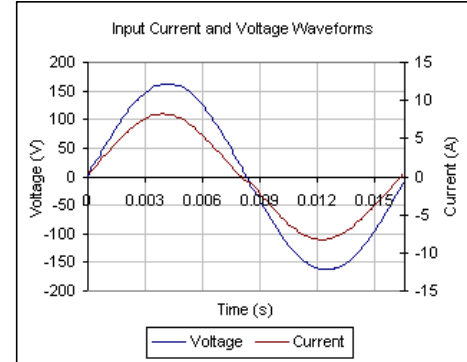


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.14%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>83.21%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	46
<b>Manufacturer</b>	FSP/Sparkle
<b>Model Number</b>	FSP550-80GHN
<b>Serial Number</b>	S5411100075
<b>Year</b>	2006
<b>Type</b>	ATX12V / EPS12V
<b>Test Date</b>	3/10/2006

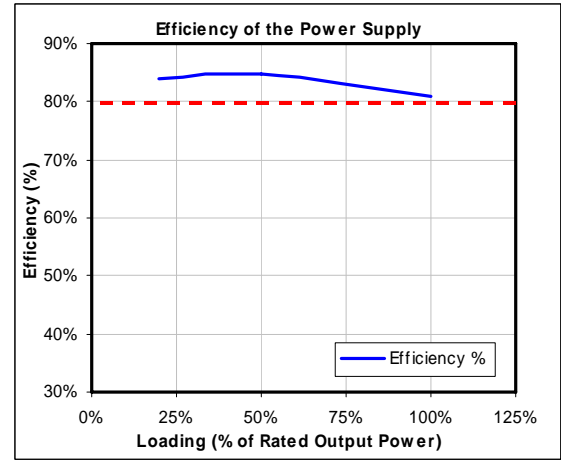
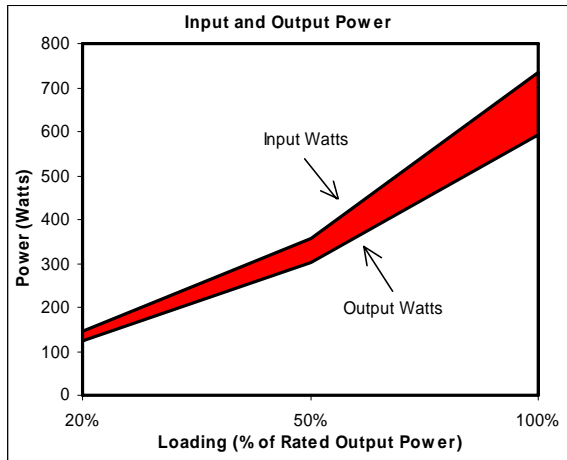
Rated Specifications	Value	Units
Input Voltage	100 - 240	Volts
Input Current	4.5 - 8.5	Amps
Input Frequency	60 - 50	Hz
<b>Rated Output Power</b>	<b>550</b>	<b>Watts</b>

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



Input AC Current Waveform ( $I_{THD} = 9.6\%$ , 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 %
						12V1	12V2	12V3	12V4	-12V	3.3V	5V*	5VSB		
1.22	0.98	17.3%	20%	Light	138	12.4/1.9	12.4/1.9	12.4/1.9	12.4/1.9	12.5/0.05	3.3/2.2	5.2/1.8	5.1/0.3	113	81.98%
2.92	0.99	9.6%	50%	Typical	334	12.3/4.8	12.3/4.8	12.3/4.8	12.3/4.8	12.6/0.1	3.2/5.5	5.1/4.6	5.0/0.8	281	84.14%
5.90	1.00	5.6%	100%	Full	677	11.9/10.4	11.9/10.4	11.9/10.4	11.9/10.4	12.5/0.3	3.2/12.0	4.9/10.0	5.0/1.7	594	87.67%



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.