

# 80 PLUS Verification and Testing Report

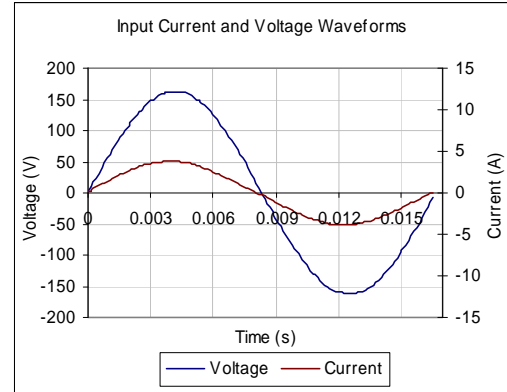
TYPICAL EFFICIENCY (50% Load):	80.90%
AVERAGE EFFICIENCY :	80.41%
80 PLUS COMPLIANT:	YES



Ecos ID #	181
Manufacturer	FSP Group Inc.
Model Number	FSP220-60LE
Serial Number	S6491000017
Year	2007
Type	1U
Test Date	3/8/2007

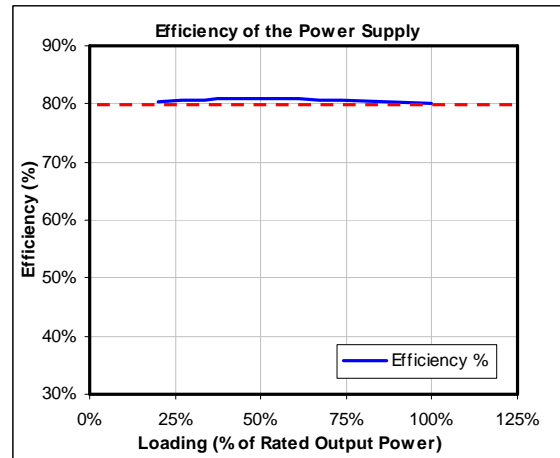
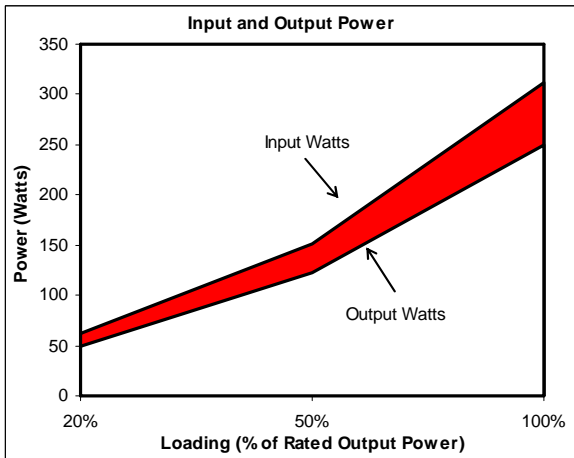
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	4-2	Amps
Input Frequency	60-50	Hz
<b>Rated Output Power</b>	<b>250</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 5.88%, 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	-12V	3.3V	5V*	5VSB		
0.55	0.98	6.5%	20%	Light	62	12.2/1.5	12.2/1	11.2/0.1	3.3/1.8	5.1/2	5/0.5	50	80.32%
1.32	0.99	5.9%	50%	Typical	151	12.2/3.8	12.2/2.4	12.2/0.1	3.3/4.4	5/5.1	4.9/1	122	80.90%
2.72	1.00	3.8%	100%	Full	312	12.2/7.6	12.1/4.8	11.3/0.8	3.3/8.9	4.9/10.1	4.9/2.4	249	80.02%



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS® Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <http://www.80plus.org/>

