

# 80 PLUS Verification and Testing Report

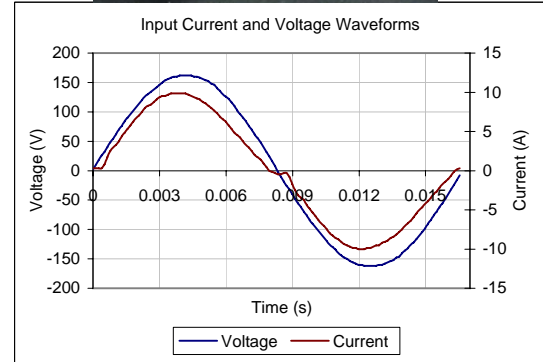
**TYPICAL EFFICIENCY (50% Load):** 85.15%  
**AVERAGE EFFICIENCY :** 83.35%  
**80 PLUS COMPLIANT:** YES



<b>Ecos ID #</b>	1153
<b>Manufacturer</b>	ENERMAX
<b>Model Number</b>	EES620AWT
<b>Serial Number</b>	N/A
<b>Year</b>	2008
<b>Type</b>	ATX12V
<b>Test Date</b>	12/22/2008

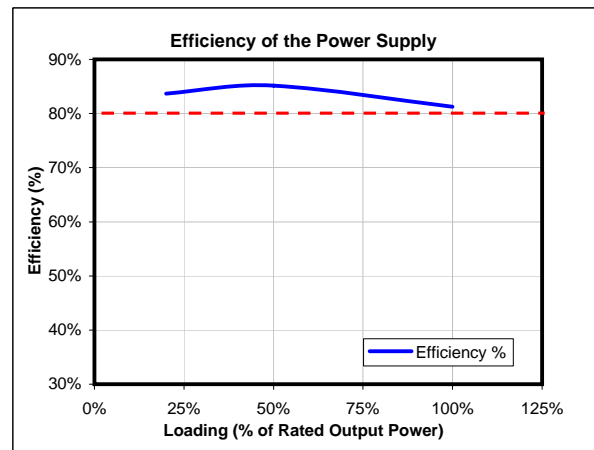
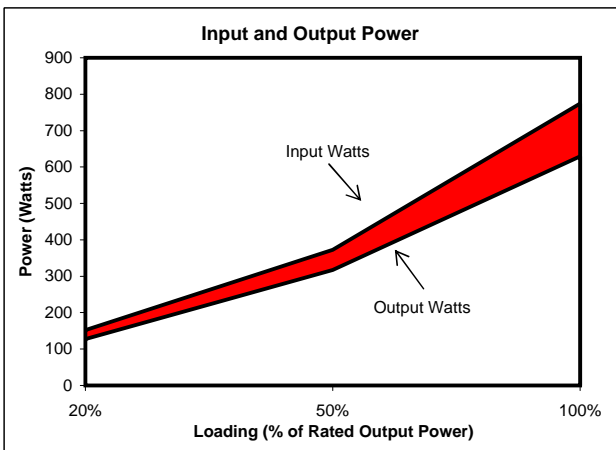
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9.5-4	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>620</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 14.64%, 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		
1.38	0.96	26.1%	20%	Light	152	12.3/8.1	12.1/0.1	3.4/2.8	5.1/2.8	5.2/0.5	128	83.65%
3.28	0.99	14.6%	50%	Typical	372	12.3/20.2	12.1/0.2	3.4/7.1	5.1/7.1	5.1/1.3	317	85.15%
6.77	0.99	9.9%	100%	Full	774	12.2/40.4	12.2/0.5	3.3/14.1	5.1/14.1	5.1/2.5	629	81.26%



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/>

