

# 80 PLUS Verification and Testing Report

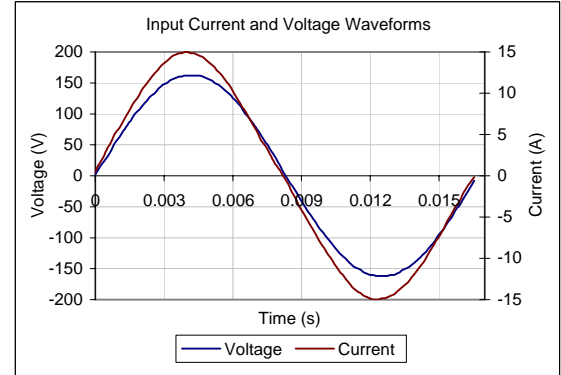


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.71%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>82.51%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	334.3
<b>Manufacturer</b>	XIGMATEK Co., Ltd
<b>Model Number</b>	NRP-HC1001
<b>Serial Number</b>	NA
<b>Year</b>	2007
<b>Type</b>	EPS12V
<b>Test Date</b>	8/22/2007

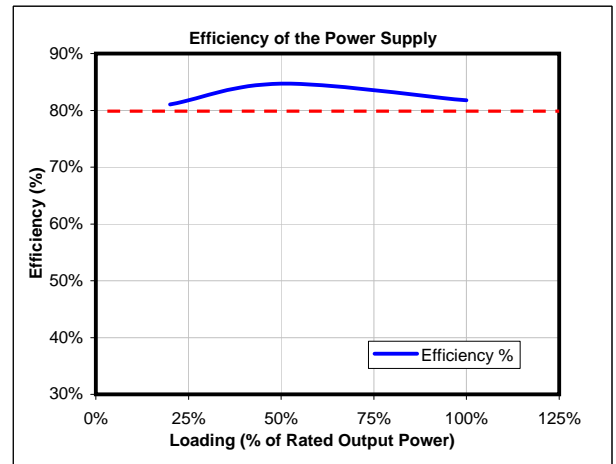
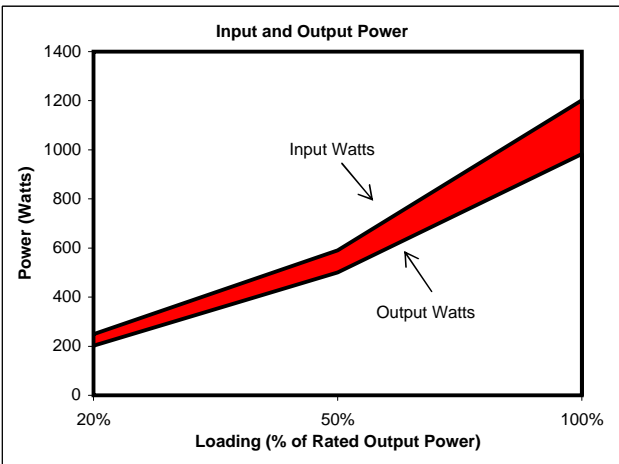
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	13	Amps
Input Frequency	47-63	Hz
<b>Rated Output Power</b>	<b>1000</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 4.9%, 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		
2.21	0.98	7.6%	20%	Light	249	12.1/13.8	12/0.2	3.3/3.6	5.1/3.6	5.1/0.7	202	81.05%
5.16	1.00	4.9%	50%	Typical	590	12/34.3	11.9/0.4	3.2/9.1	5/9.1	4.9/1.7	500	84.71%
10.47	1.00	3.6%	100%	Full	1202	11.8/68.6	12/0.8	3.1/18.1	4.9/18.2	4.7/3.4	983	81.77%



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.