

# 80 PLUS Verification and Testing Report

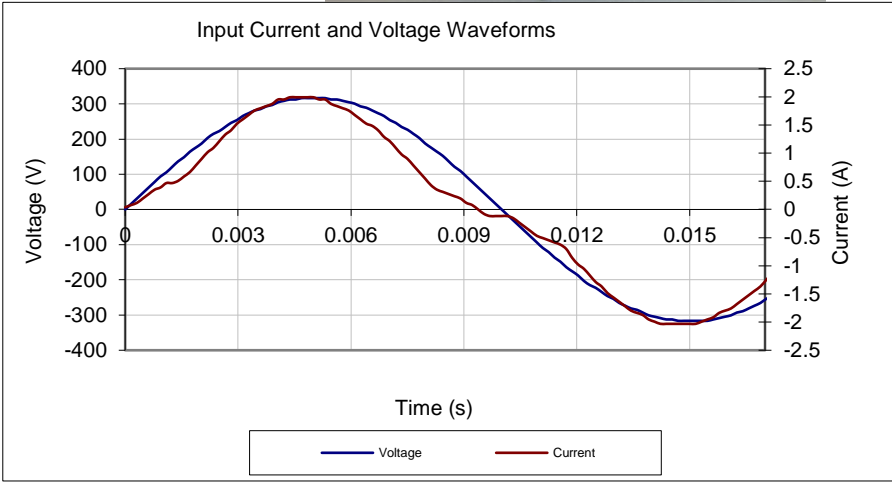
TYPICAL EFFICIENCY (50% Load):	86.82%
AVERAGE EFFICIENCY :	85.06%
80 PLUS COMPLIANT:	YES



ID Number	EU-286
Manufacturer	VINGA
Model Number	VPS-500P
Serial Number	N/A
Year	2017
Type	ATX12V
Test Date	2/1/17

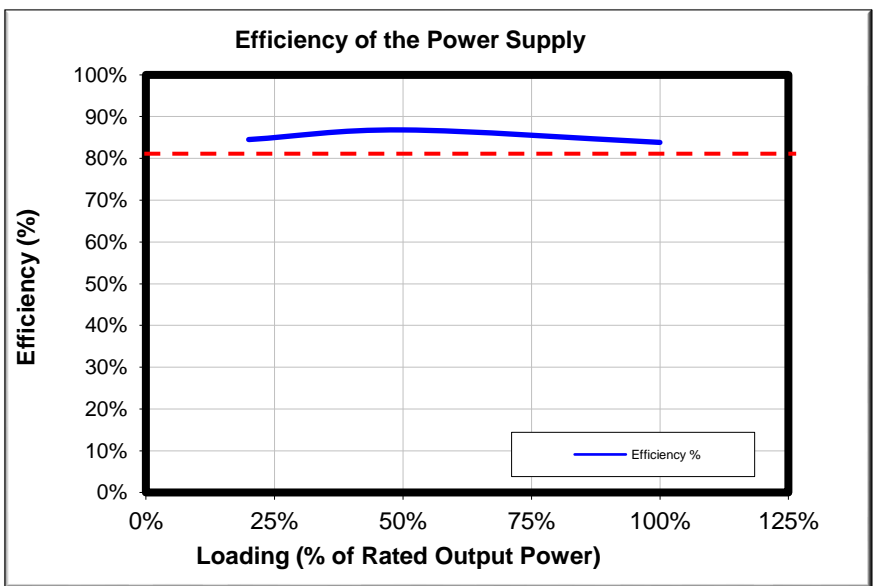
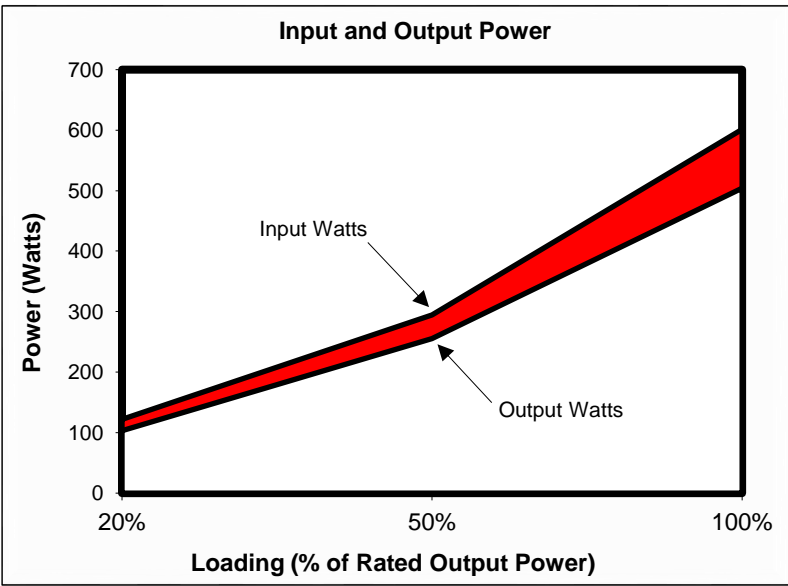
Rated Specifications	Value	Units
Input Voltage	230	Volts
Input Current	5	Amps
Input Frequency	50	Hz
Rated Output Power	500	Watts

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



Input AC Current Waveform (ITHD = 17.17%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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		
0.33	0.90	32.97%	10%	68.31	12.35/3.58	12.14/0.03	3.39/0.7	5.16/0.7	5.11/0.22	51.66	75.62%
0.55	0.96	19.42%	20%	121.96	12.34/7.15	12.26/0.05	3.38/1.4	5.14/1.4	5.1/0.45	103.08	84.52%
1.31	0.98	17.17%	50%	294.60	12.27/17.87	12.27/0.13	3.35/3.49	5.11/3.46	5.06/1.11	255.78	86.82%
2.66	0.98	16.45%	100%	601.30	12.1/35.65	12.36/0.27	3.31/6.98	5.08/6.93	5/2.23	504.10	83.83%



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/>

