

80 PLUS Verification and Testing Report

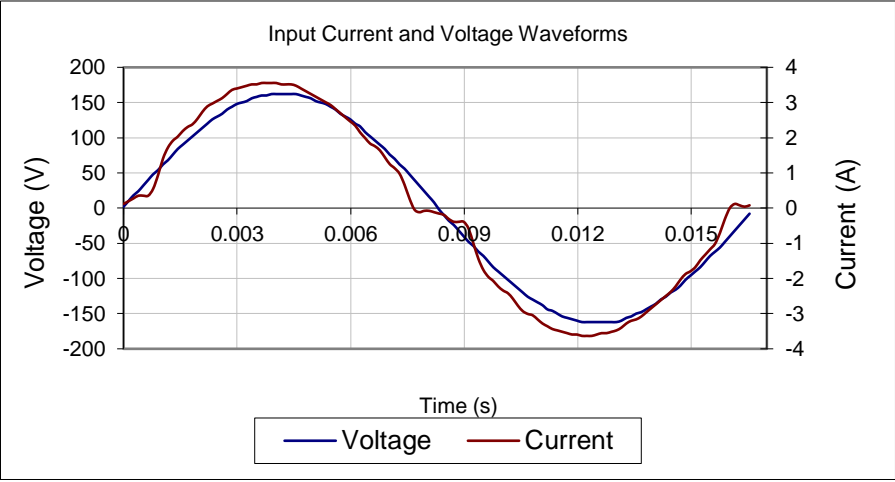
TYPICAL EFFICIENCY (50% Load):	87.72%
AVERAGE EFFICIENCY :	86.45%
80 PLUS COMPLIANT:	YES



ID #	4173.3
Manufacturer	CertoX
Model Number	Boris 500W
Serial Number	N/A
Year	2014
Type	ATX12V
Test Date	12/11/14

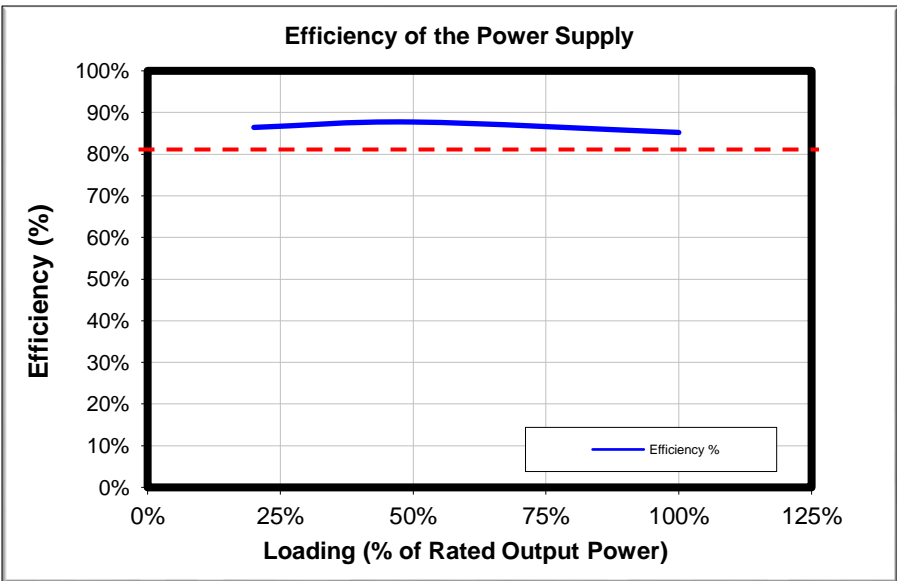
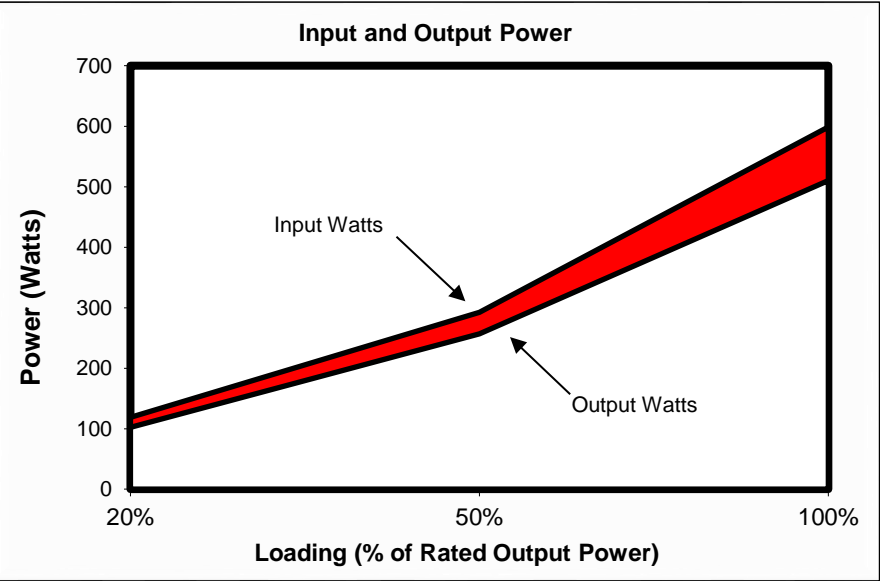
Rated Specifications	Value	Units
Input Voltage	230 / 115	Volts
Input Current	N/A	Amps
Input Frequency	50/60	Hz
Rated Output Power	500	Watts

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



Input AC Current Waveform (ITHD = 9.3%, 50% Load)

I _{RMS} A	PF	I _{THD} (%)	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		
0.56	0.96	22.15%	10%	62.10	12.22/3.28	11.17/0.03	3.44/1.16	5.21/1.16	5/0.19	51.34	82.67%
1.05	0.98	16.54%	20%	118.48	12.27/6.52	11.22/0.06	3.44/2.31	5.17/2.3	5/0.37	102.38	86.41%
2.56	0.99	9.30%	50%	292.50	12.28/16.37	11.28/0.14	3.43/5.78	5.14/5.73	4.98/0.93	256.57	87.72%
5.23	1.00	7.35%	100%	598.60	12.23/32.64	11.33/0.28	3.42/11.53	5.14/11.47	4.96/1.86	510.05	85.21%



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/>