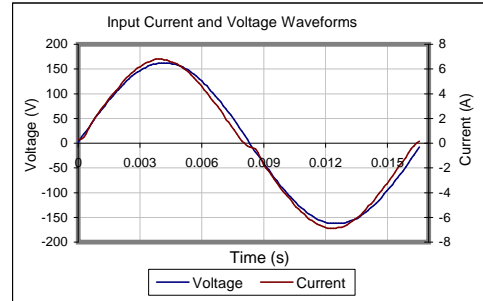


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	85.99%
AVERAGE EFFICIENCY :	84.17%
80 PLUS COMPLIANT:	YES



Ecos ID #	1952.2
Manufacturer	LEPA
Model Number	W450-SA
Serial Number	N/A
Year	2010
Type	ATX12V
Test Date	3/8/2010

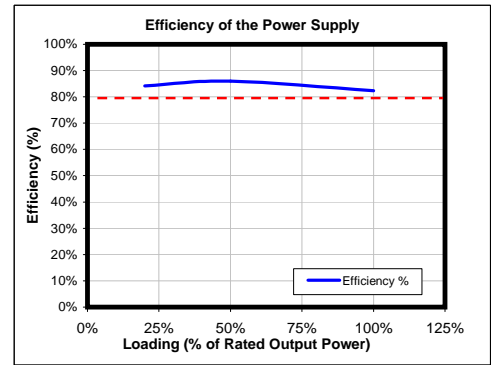
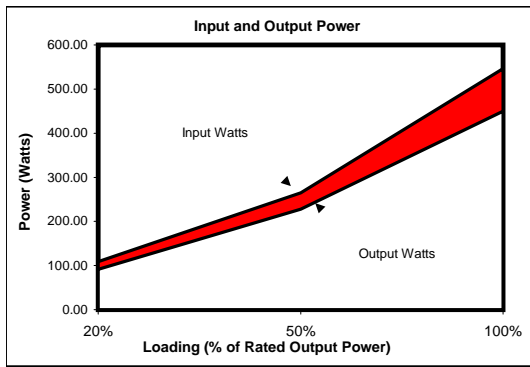


Input AC Current Waveform (ITHD = 5.8%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6/3	Amps
Input Frequency	50/60	Hz
Rated Output Power	450	Watts

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

I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency %
						12V (cumulative of 12V1, 12V2, etc.)						
0.98	0.97	16.80%	20%	Light	108.80	12.2/5.6	12.1/0	3.3/3.1	5.1/2	5.1/0.5	91.57	84.16%
2.33	0.99	5.80%	50%	Typical	265.10	12.2/13.9	12.2/0.1	3.3/7.8	5.1/4.9	5.1/1.3	227.96	85.99%
4.77	1.00	5.85%	100%	Full	546.10	12.1/27.8	12.3/0.2	3.2/15.6	4.9/9.8	5/2.5	449.80	82.37%



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/>

