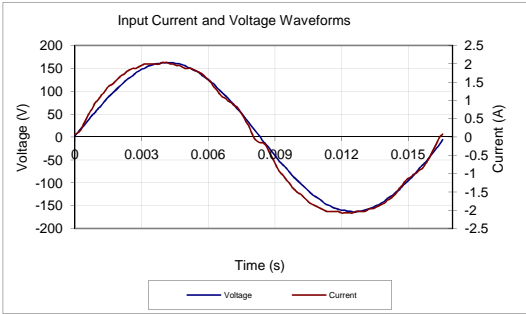


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	90.98%
AVERAGE EFFICIENCY :	89.31%
80 PLUS COMPLIANT:	YES



Ecos ID #	4117
Manufacturer	In Win Development Inc.
Model Number	IP-P315AU7-2
Serial Number	N/A
Year	2014
Type	FLEX ATX
Test Date	10/20/14

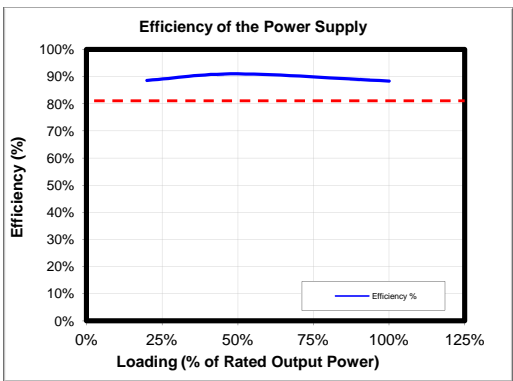
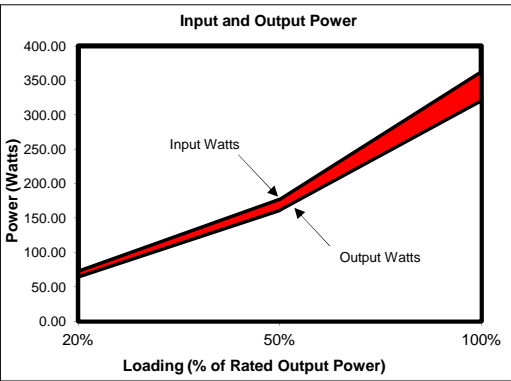


Input AC Current Waveform (ITHD = 5.19%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	5	Amps
Input Frequency	60/50	Hz
Rated Output Power	315	Watts

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

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		
0.35	0.97	8.79%	10%	38.86	12.3/1.9	12/0	3.4/0.9	5.2/0.9	5.2/0.2	32.32	83.17%
0.64	0.99	6.71%	20%	72.89	12.3/3.8	12/0	3.4/1.8	5.2/1.8	5.2/0.4	64.59	88.61%
1.55	1.00	5.19%	50%	177.43	12.3/9.5	12/0.1	3.4/4.4	5.2/4.4	5.2/1.1	161.43	90.98%
3.21	0.98	16.97%	100%	362.90	12.3/19	12.1/0.2	3.4/8.8	5/8.7	5/2.2	320.59	88.34%



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/>

