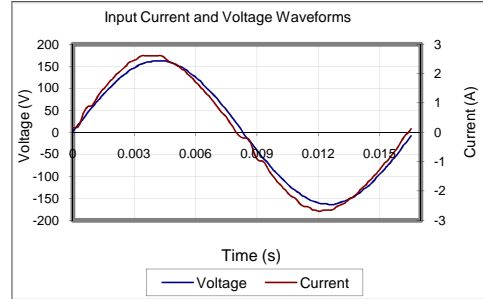


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	86.68%
AVERAGE EFFICIENCY :	85.11%
80 PLUS COMPLIANT:	YES



Ecos ID #	2083
Manufacturer	IN WIN DEVELOPMENT INC.
Model Number	IP-AD180-2
Serial Number	N/A
Year	2010
Type	FLEX ATX
Test Date	5/20/2010

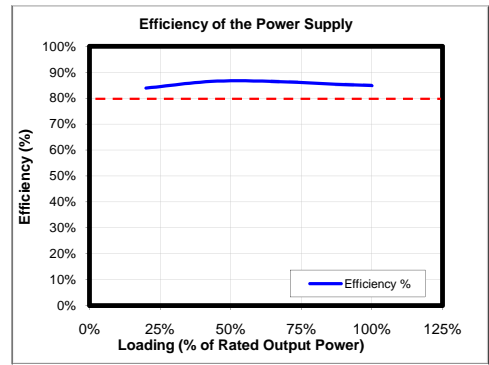
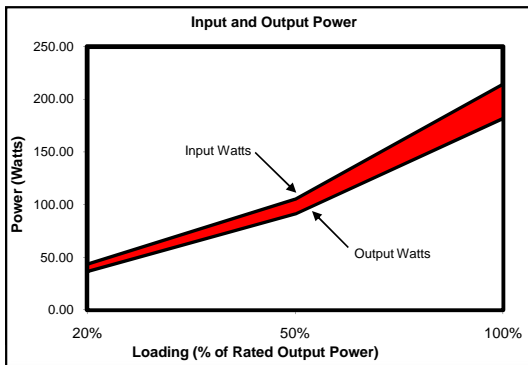


Input AC Current Waveform (ITHD = 7.2%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	4	Amps
Input Frequency	60/50	Hz
Rated Output Power	180	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.)						
0.39	0.98	12.40%	20%	Light	43.54	12.2/1.7					36.52	83.87%
0.92	0.99	7.20%	50%	Typical	105.15	12.2/4.2					91.14	86.68%
1.87	1.00	4.65%	100%	Full	214.47	12.2/8.5					181.86	84.80%



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/>

