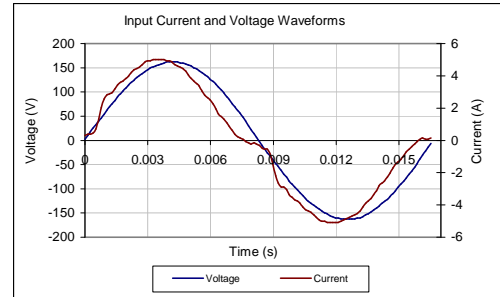


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	86.49%
AVERAGE EFFICIENCY :	84.66%
80 PLUS COMPLIANT:	YES



Ecos ID #	2419
Manufacturer	High Power Electronics Co., Ltd.
Model Number	HPC-650-B14S(C)
Serial Number	N/A
Year	2011
Type	ATX12V
Test Date	1/20/2011

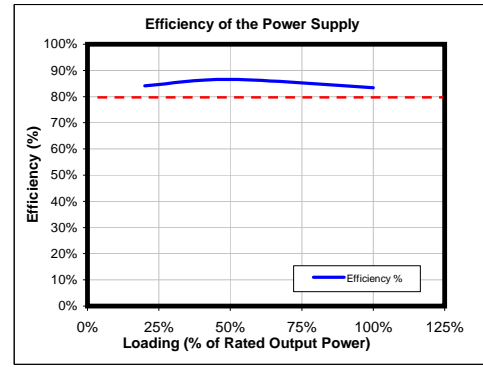
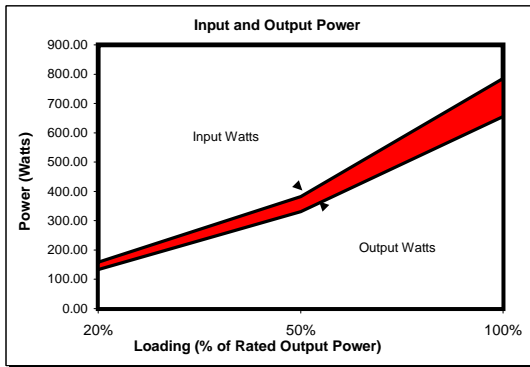


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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

Input AC Current Waveform (ITHD = 13.01%, 50% Load)

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.)						
1.48	0.93	26.07%	20%	Light	157.90	12.2/8.5	11.9/0.1	3.4/2.9	5.2/2.9	5.1/0.6	132.73	84.06%
3.43	0.97	13.01%	50%	Typical	382.00	12.1/21.4	12/0.1	3.4/7.2	5.2/7.3	5.1/1.4	330.41	86.49%
6.90	0.99	7.78%	100%	Full	785.60	12/42.8	12.1/0.3	3.3/14.4	5.1/14.5	5/2.8	655.37	83.42%



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/>

