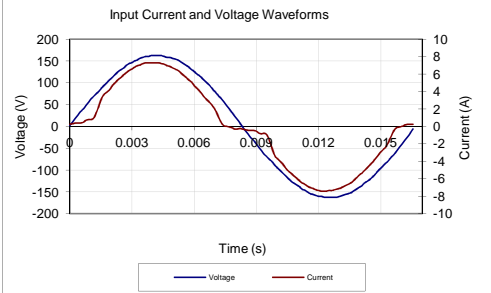


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	87.47%
AVERAGE EFFICIENCY :	85.78%
80 PLUS COMPLIANT:	YES



Ecos ID #	3312
Manufacturer	Powercool
Model Number	PCB-950BK
Serial Number	N/A
Year	2012
Type	ATX12V
Test Date	10/17/12

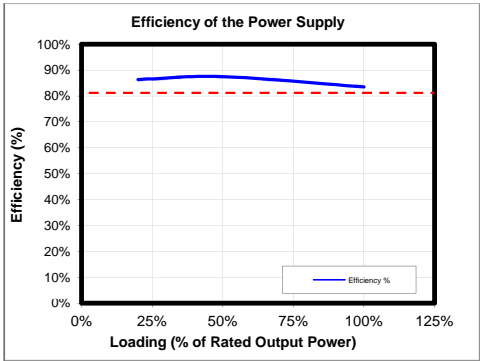
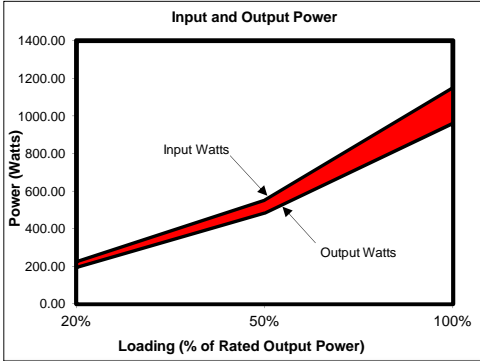


Rated Specifications	Value	Units
Input Voltage	110/220	Volts
Input Current	N/A	Amps
Input Frequency	60/50	Hz
Rated Output Power	950	Watts

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

Input AC Current Waveform (ITHD = 18.71%, 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.)						
1.03	0.99	6.00%	10%	117.94	12.2/6.6	-12V	3.3V	5V	5Vsb	96.79	82.07%
2.02	0.97	25.04%	20%	224.54	12.2/13.3	11.5/0.1	3.4/3.4	5.2/3.3	5.1/0.5	193.89	86.35%
4.89	0.98	18.71%	50%	552.40	12.1/33.2	11.5/0.2	3.4/8.4	5.2/8.3	5.1/1.2	483.18	87.47%
10.10	0.99	13.14%	100%	1150.40	12.1/66.2	11.5/0.5	3.4/16.7	5.2/16.7	5/2.3	960.71	83.51%



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/>

