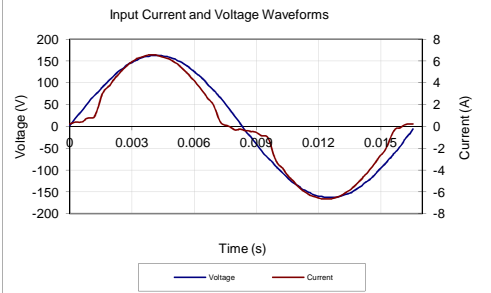


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	87.60%
AVERAGE EFFICIENCY :	85.94%
80 PLUS COMPLIANT:	YES



Ecos ID #	3310
Manufacturer	Powercool
Model Number	PCB-850BK
Serial Number	N/A
Year	2012
Type	ATX12V
Test Date	10/17/12

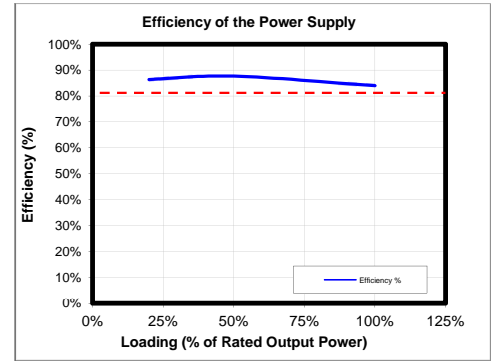
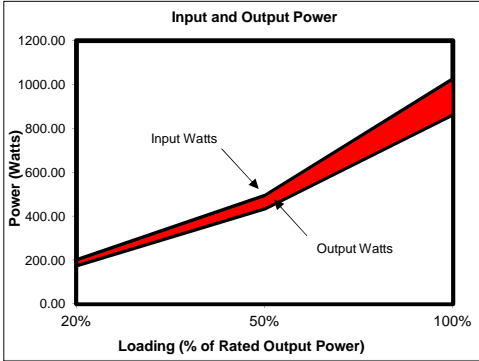


Rated Specifications	Value	Units
Input Voltage	110/220	Volts
Input Current	N/A	Amps
Input Frequency	60/50	Hz
Rated Output Power	850	Watts

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

Input AC Current Waveform (ITHD = 18.8%, 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.)	-12V	3.3V	5V			5Vsb
0.95	0.97	19.52%	10%	106.16	12.2/6	11.5/0.1	3.4/1.4	5.2/1.4	5.1/0.2	86.79	81.75%
1.80	0.97	22.60%	20%	201.60	12.2/12	11.5/0.1	3.4/2.9	5.2/2.8	5.1/0.5	173.99	86.30%
4.39	0.98	18.80%	50%	494.80	12.2/29.9	11.5/0.2	3.4/7.2	5.2/7.1	5.1/1.1	433.46	87.60%
9.03	0.99	13.66%	100%	1027.40	12.1/59.6	11.6/0.5	3.4/14.3	5.2/14.2	5/2.3	862.24	83.92%



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/>

