80 PLUS Verification and Testing Report

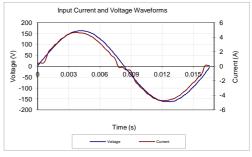
TYPICAL EFFICIENCY (50% Load):	87.07%
AVERAGE EFFICIENCY:	85.37%
80 PLUS COMPLIANT:	YES



Ecos ID #	3307			
Manufacturer	Powercool			
Model Number	PCB-650BKMOD			
Serial Number	N/A			
Year	2012			
Туре	ATX12V			
Test Date	10/15/12			

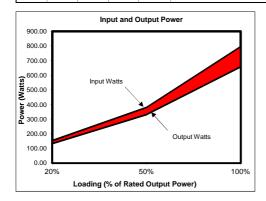
Rated Specifications	Value	Units
Input Voltage	110/220	Volts
Input Current	N/A	Amps
Input Frequency	60/50	Hz
Rated Output Power	650	Watts

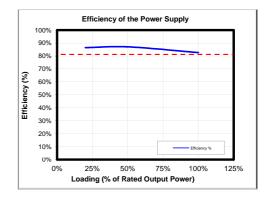
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 7.8%, 50% Load)

I _{RMS}	PF	I _{THD} (%)	Load	Input	DC Terminal Voltage (V)/ DC Load Current (A)				Output	Efficiency	
Α			(%)	Watts	12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5Vsb	Watts	%
0.72	0.98	9.13%	10%	80.70	12.2/4.3	11.6/0	3.4/1.4	5.1/1.4	5.1/0.2	66.54	82.45%
1.37	0.97	19.93%	20%	153.55	12.2/8.6	11.6/0.1	3.4/2.8	5.1/2.8	5.1/0.5	132.71	86.43%
3.32	0.99	7.80%	50%	380.00	12.2/21.6	11.6/0.2	3.4/7	5/7	5.1/1.1	330.87	87.07%
6.94	1.00	6.92%	100%	796.20	12.1/43.2	11.7/0.5	3.4/14	5/13.9	5/2.2	657.66	82.60%







PLUG LOAD

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/

