80 PLUS Verification and Testing Report

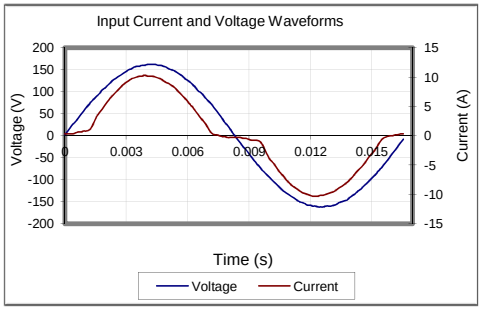


TYPICAL EFFICIENCY (50% Load):	**86.87%**
AVERAGE EFFICIENCY :	**85.19%**
80 PLUS COMPLIANT:	**YES**

Ecos ID #	1169.14
Manufacturer	Aerocool Advanced Technologies Corp.
Model Number	KCAS-600W
Serial Number	N/A
Year	2008
Type	ATX12V
Test Date	12/1/2008

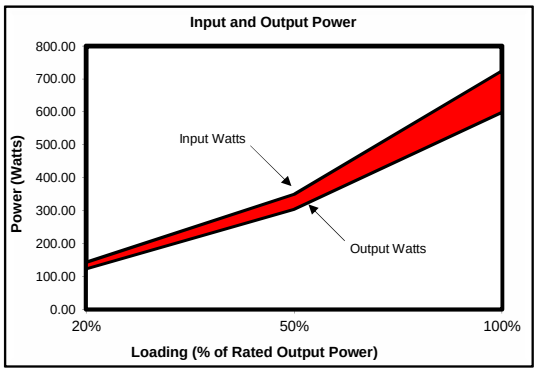
Rated Specifications	Value	Units
Input Voltage	115-230	Volts
Input Current	12/8	Amps
Input Frequency	50/60	Hz
Rated Output Power	**600**	**Watts**

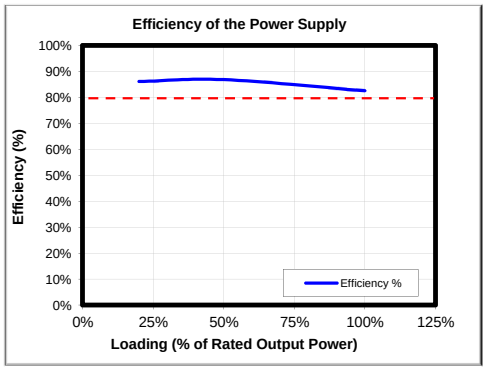
Note: All measurements were taken with input voltage at 115 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 30.55%, 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.)	-12V	3.3V	5V*	5VSB		
1.28	0.97	1.86%	20%	**Light**	142.10	12.2/8.4	11.1/0.1	3.3/2.4	5.1/1.6	5.1/0.5	122.39	**86.13%**
3.20	0.95	30.55%	50%	**Typical**	349.32	12.1/21	11.1/0.2	3.3/6	5.1/4	5.1/1.2	303.46	**86.87%**
6.51	0.97	24.42%	100%	**Full**	724.50	11.9/41.9	11/0.5	3.3/12	5.1/8	5/2.5	598.19	**82.57%**





PLUG LOAD solutions

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/*

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