

80 PLUS Verification and Testing Report

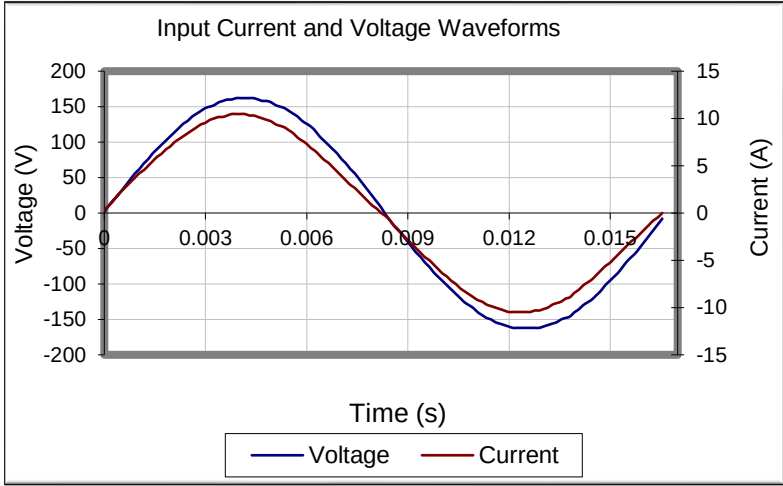
TYPICAL EFFICIENCY (50% Load):	90.70%
AVERAGE EFFICIENCY :	89.23%
80 PLUS COMPLIANT:	YES



ID #	1955.4
Manufacturer	Aerocool Advanced Technologies Corp.
Model Number	KCAS PLUS GOLD 850W
Serial Number	N/A
Year	2010
Type	ATX12V & EPS12V
Test Date	3/10/2010

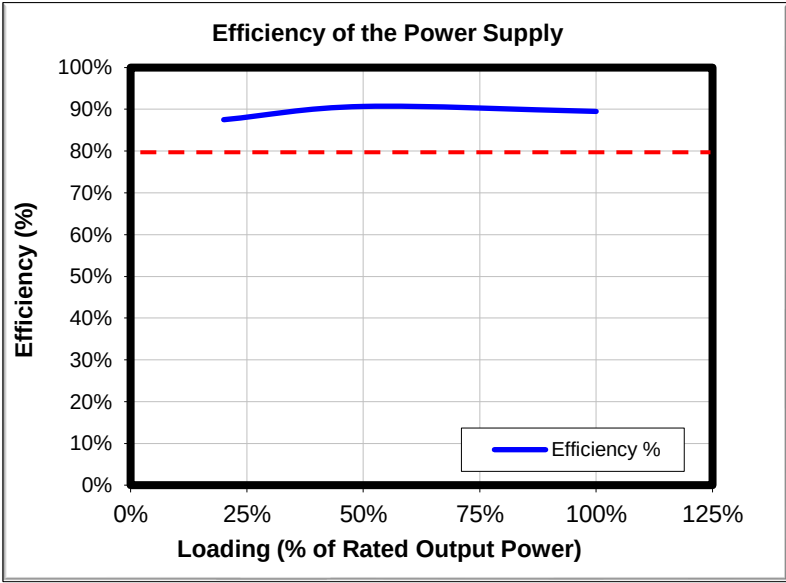
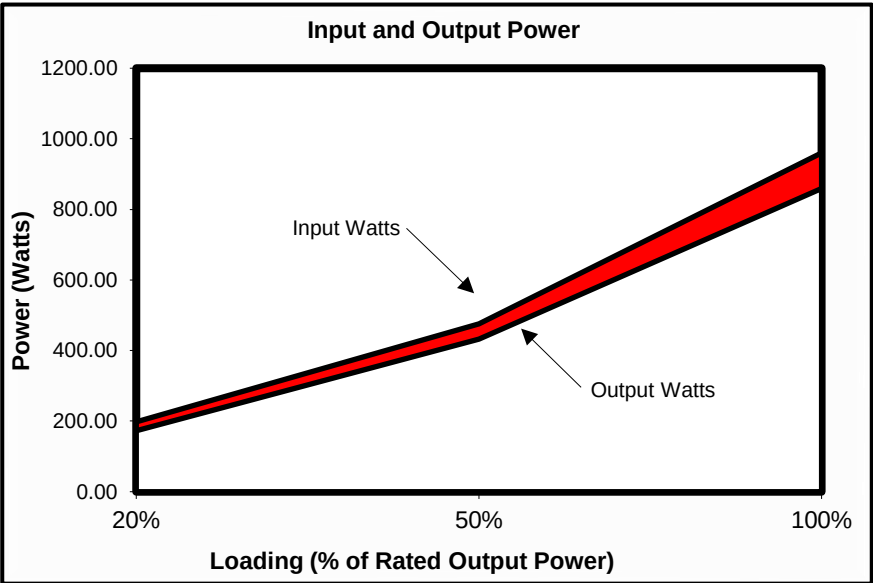
Rated Specifications	Value	Units
Input Voltage	115-230	Volts
Input Current	12/6	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



Input AC Current Waveform (ITHD = 4.35%, 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
1.75	0.9826	7.60%	20%	Light	197.81	12.2/12.7		11.6/0.1	3.4/1.7	5.1/1.7	5.1/0.5	173.10	87.51%
4.15	0.9959	4.35%	50%	Typical	476.10	12.2/31.7		11.6/0.2	3.4/4.3	5.1/4.3	5/1.3	431.81	90.70%
8.35	0.9986	2.61%	100%	Full	960.00	12.1/63.4		11.6/0.4	3.3/8.7	5.1/8.7	4.9/2.7	859.17	89.50%



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/>

