

# 80 PLUS Verification and Testing Report

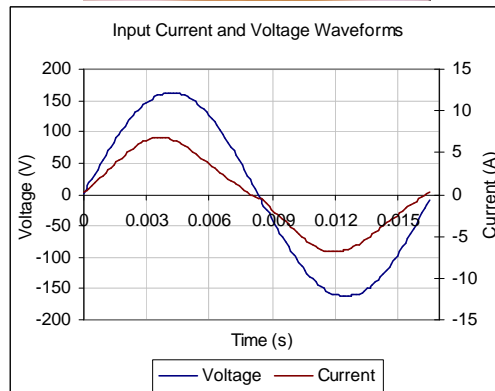
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.75%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>83.55%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	124
<b>Manufacturer</b>	CoolerMaster
<b>Model Number</b>	RS-430-ASAA
<b>Serial Number</b>	N/A
<b>Year</b>	2006
<b>Type</b>	ATX12V
<b>Test Date</b>	9/12/2006

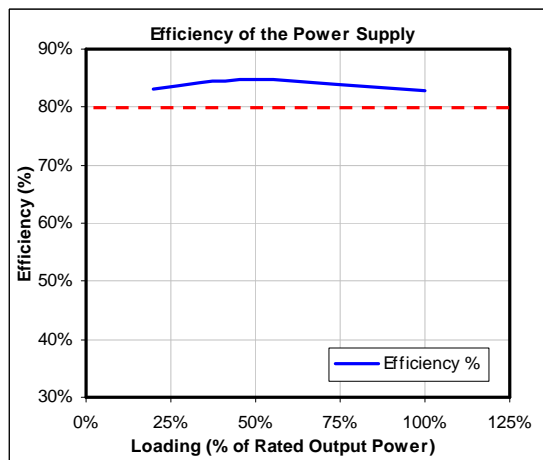
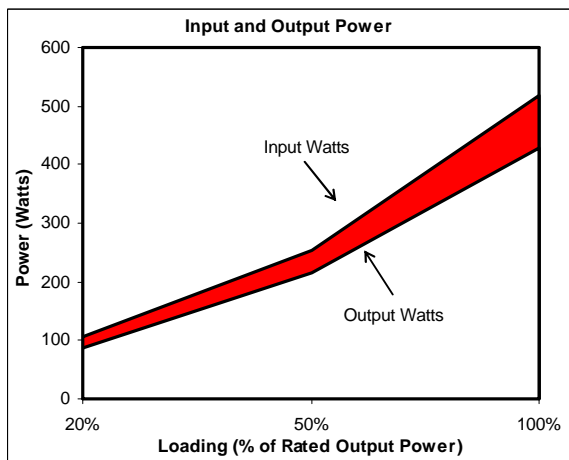
Rated Specifications	Value	Units
Input Voltage	100 - 240	Volts
Input Current	10 - 5	Amps
Input Frequency	60 - 50	Hz
<b>Rated Output Power</b>	<b>430</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 12.03%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)						Output Watts	Efficiency %
						12V1	12V2	-12V	3.3V	5V*	5VSB		
0.95	0.96	13.0%	20%	Light	106	12.1/2.5	12.1/2.6	12/0.2	3.3/2.7	5/2.4	5/0.6	88	83.03%
2.25	0.98	12.0%	50%	Typical	254	12.1/6.4	12.1/6.4	12.1/0.4	3.3/6	5/6	5/1.5	216	84.75%
4.56	0.99	10.3%	100%	Full	518	12/12.7	12/12.7	12/0.8	3.3/12	4.9/12	4.9/3	429	82.87%



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.



Tested by EPRI Solutions Inc., Knoxville, TN.