

# 80 PLUS Verification and Testing Report

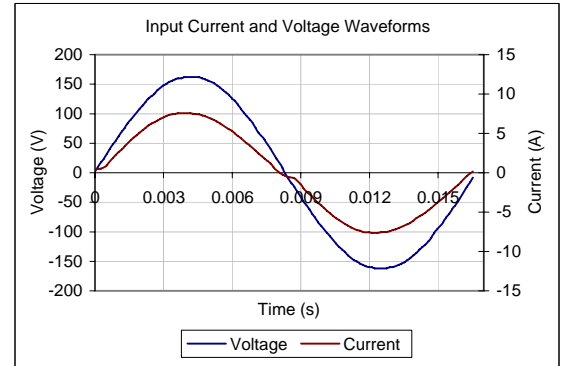


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>85.55%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>83.92%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	680
<b>Manufacturer</b>	COOLER MASTER
<b>Model Number</b>	RS-500-AMBA-D3
<b>Serial Number</b>	NA
<b>Year</b>	2008
<b>Type</b>	ATX12V & EPS12V
<b>Test Date</b>	5/16/2008

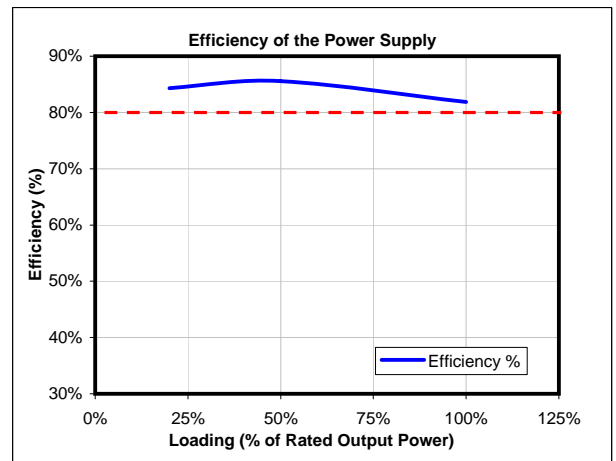
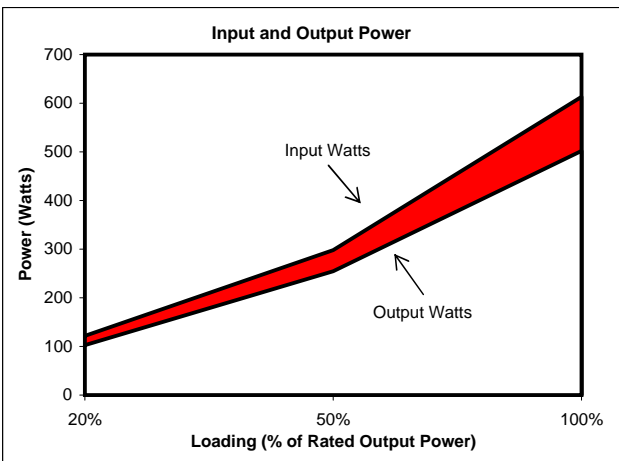
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>500</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 5.23%, 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 %	
						12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V*			5VSB
1.08	0.98	17.1%	20%	Light	122	12.4/6	12/0.1	3.3/3.1	5/3	5/0.4	103	84.34%
2.60	1.00	5.2%	50%	Typical	298	12.3/14.9	12/0.2	3.3/7.6	4.9/7.6	5/1.1	255	85.55%
5.34	1.00	5.8%	100%	Full	613	12.2/29.8	12.1/0.4	3.2/15.2	4.8/15.2	4.8/2.2	502	81.88%



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 Electric Power Research Institute, Knoxville, TN.