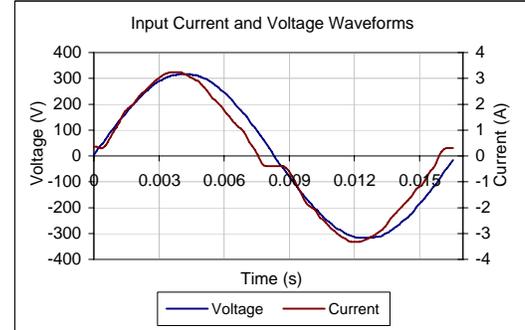


# 80 PLUS Verification and Testing Report



<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>91.20%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>89.57%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	SO-48
<b>Manufacturer</b>	RACKABLE SYSTEMS
<b>Model Number</b>	AHF5DC456W
<b>Serial Number</b>	N/A
<b>Year</b>	2009
<b>Type</b>	1U
<b>Test Date</b>	3/16/2009



Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	5.5-2.7	Amps
Input Frequency	50/60	Hz
<b>Rated Output Power</b>	<b>450</b>	<b>Watts</b>

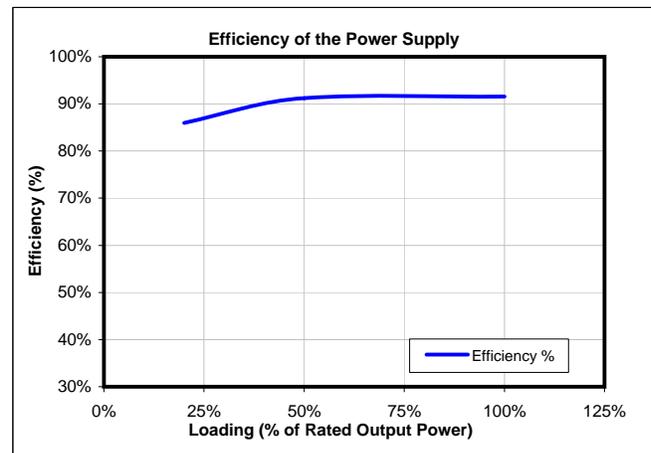
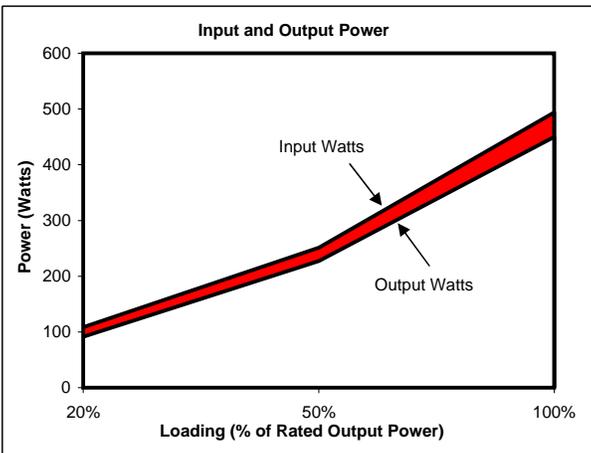
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

Input AC Current Waveform (ITHD = 12.67%, 100% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)**	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	5Vs <sub>b</sub>		
0.39	0.66	15.60	*10%	Low	60	2.14	12.21/3.59	5.08/0.38	46	79.72%
0.58	0.82	17.36	20%	Light	108	2.14	12.18/7.18	5.06/0.76	91	85.96%
1.15	0.95	15.11	50%	Typical	251	2.14	12.13/17.96	5.02/1.89	227	91.20%
2.19	0.98	12.67	100%	Full	494	2.14	12.01/35.92	4.94/3.78	450	91.55%

\* 10% load results are for informative purposes only and not included in certification requirements.

\*\* Fan power is not included in the efficiency calculations



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/>

