

80 PLUS Verification and Testing Report

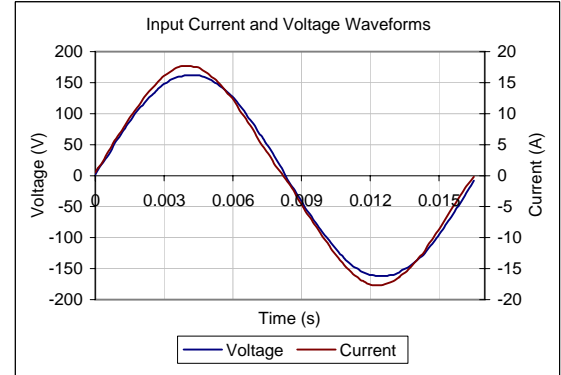
TYPICAL EFFICIENCY (50% Load): 85.77%
AVERAGE EFFICIENCY : 83.73%
80 PLUS COMPLIANT: YES



Ecos ID #	667
Manufacturer	THERMALTAKE
Model Number	W0156 Toughpower 1200 AP
Serial Number	NA
Year	2008
Type	ATX12V & EPS12V
Test Date	5/19/2008

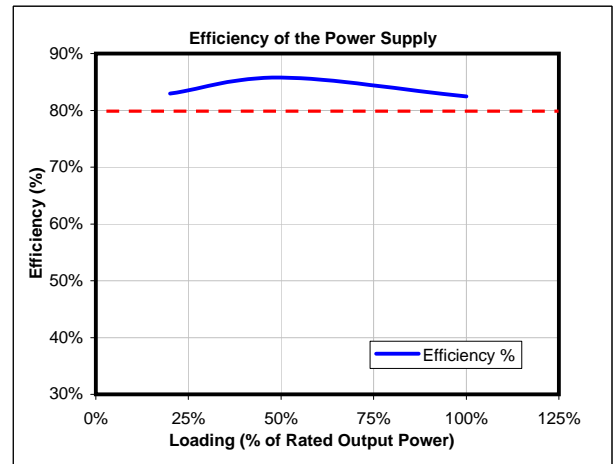
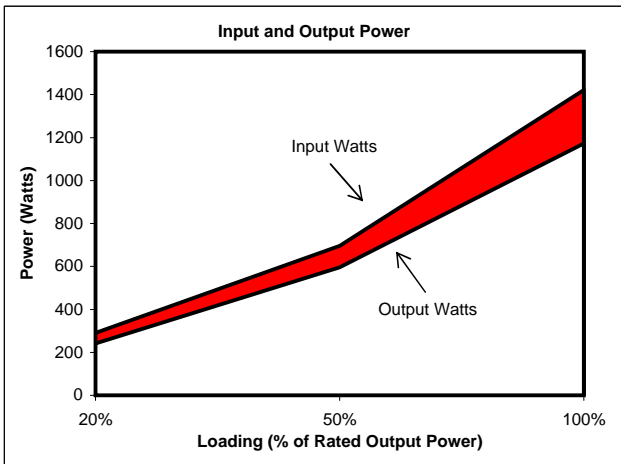
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	15	Amps
Input Frequency	47-63	Hz
Rated Output Power	1200	Watts

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



Input AC Current Waveform (ITHD = 5.53%, 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		
2.56	0.99	9.2%	20%	Light	291	12/16.3	11.9/0.1	3.3/4.9	5/4.9	5/0.6	241	82.97%
6.07	1.00	5.5%	50%	Typical	696	12/40.7	12/0.3	3.2/12.2	5/12.2	4.9/1.4	597	85.77%
12.37	1.00	3.4%	100%	Full	1421	11.8/81.3	12.2/0.7	3.1/24.3	4.8/24.5	4.7/2.9	1172	82.46%



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/>

