80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**85.43%**
AVERAGE EFFICIENCY :	**82.92%**
80 PLUS COMPLIANT:	**YES**
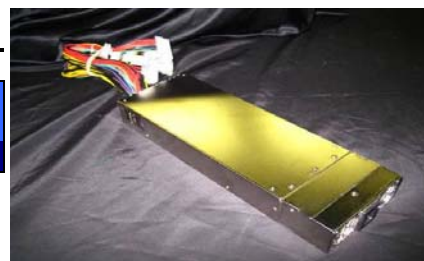
Ecos ID #	587
Manufacturer	EMACS
Model Number	P1D-5700V
Serial Number	T80800282
Year	2008
Type	ATX12V/ETX12V
Test Date	4/18/2008

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	5-10	Amps
Input Frequency	47-63	Hz
Rated Output Power	**700**	**Watts**

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

Input Current and Voltage Waveforms
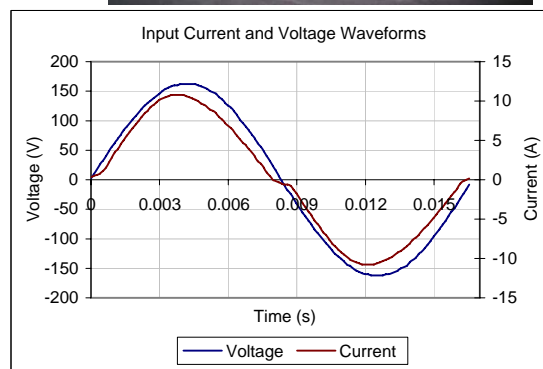
Input AC Current Waveform (ITHD = 13.44%, 50% Load)

I_{RMS} A	PF	I_{THD} (%)	Load (%)	Fraction of Load	Input Watts	12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V*	5VSB	Output Watts	Efficiency %
1.50	0.99	10.6%	20%	Light	172	12/8.4	12/0.2	3.3/4.2	5.1/4.2	5.1/0.7	140	81.83%
3.58	0.99	13.4%	50%	Typical	407	12/20.9	12.1/0.4	3.2/10.4	5/10.4	5/1.8	348	85.43%
7.33	0.99	9.2%	100%	Full	839	11.9/41.7	12.2/0.8	3.1/20.6	4.8/20.7	4.9/3.5	684	81.50%

Input and Output Power

Efficiency of the Power Supply
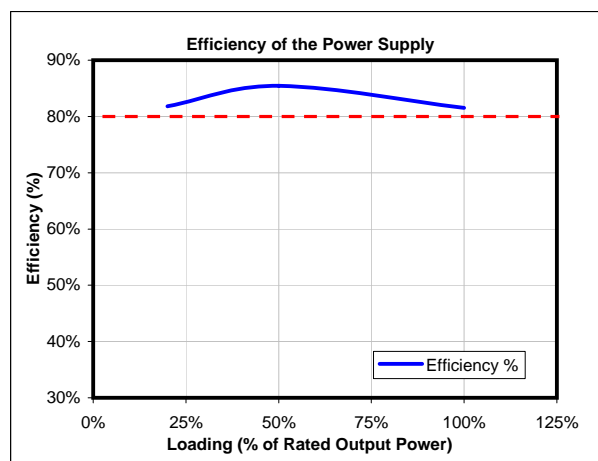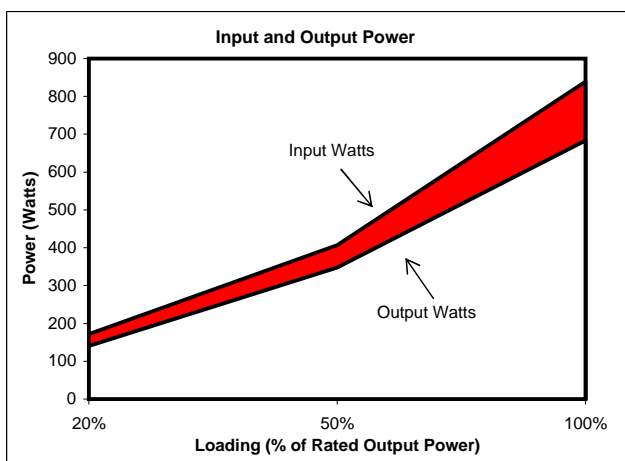
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS® Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. *http://www.80plus.org/*