80 PLUS Verification and Testing Report


TYPICAL EFFICIENCY (50% Load):	91.25%
AVERAGE EFFICIENCY :	89.89%
80 PLUS COMPLIANT:	YES

Ecos ID #	4152
Manufacturer	SAMA
Model Number	ETX-750-1
Serial Number	N/A
Year	2014
Type	ATX12V
Test Date	11/25/14

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	47-63	Hz
Rated Output Power	750	Watts

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

Input Current and Voltage Waveforms
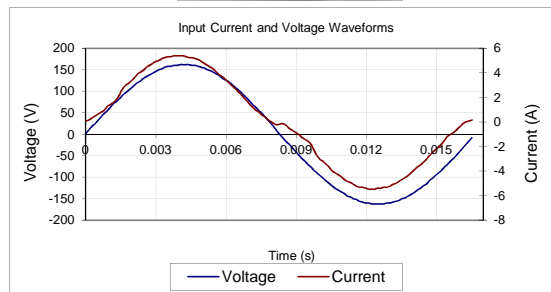
Input AC Current Waveform (ITHD = 12.19%, 50% Load)

$I_{RMS A}$ A	PF	I_{THD} (%)	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		
0.79	0.96	20.98%	10%	87.60	12.14/5.37	12.3/0.04	3.39/1.04	5.11/1.04	5.07/0.26	75.85	86.59%
1.50	0.98	15.27%	20%	168.65	12.13/10.79	12.09/0.09	3.38/2.09	5.1/2.08	5.06/0.52	152.24	90.27%
3.66	0.99	12.19%	50%	415.70	12.09/26.97	12.18/0.22	3.36/5.22	5.08/5.18	5.04/1.3	379.31	91.25%
7.47	0.99	8.73%	100%	853.20	12.02/53.83	12.53/0.43	3.33/10.43	5.03/10.37	5/2.6	752.20	88.16%

Input and Output Power

Efficiency of the Power Supply

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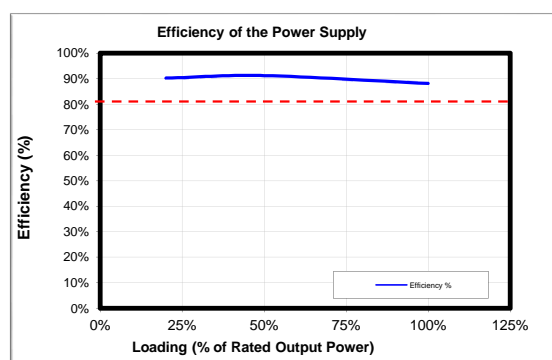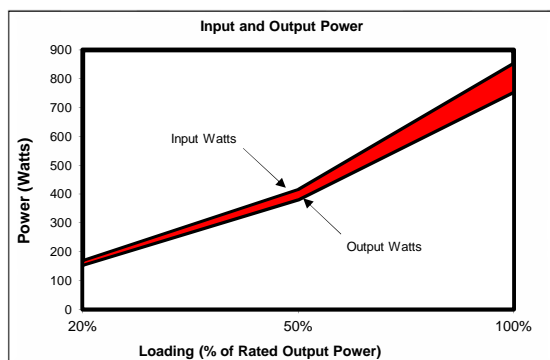
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. http://www.80plus.org/