80 PLUS Verification and Testing Report


TYPICAL EFFICIENCY (50% Load):		**84.10%**
AVERAGE EFFICIENCY :		**82.72%**
80 PLUS COMPLIANT:		**YES**
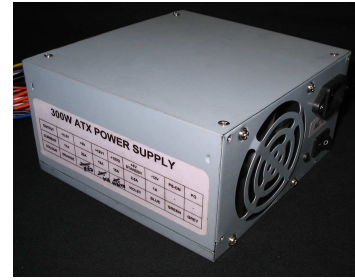
Ecos ID #	206
Manufacturer	ON Semiconductor
Model Number	300 W ATX Reference Design
Serial Number	N/A
Year	2007
Type	ATX12V
Test Date	4/4/2007

Input Current and Voltage Waveforms

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	N/A	Amps
Input Frequency	N/A	Hz
Rated Output Power	**300**	**Watts**

Note: All measurements were taken with input voltage at 115 V nominal and 60 Hz.
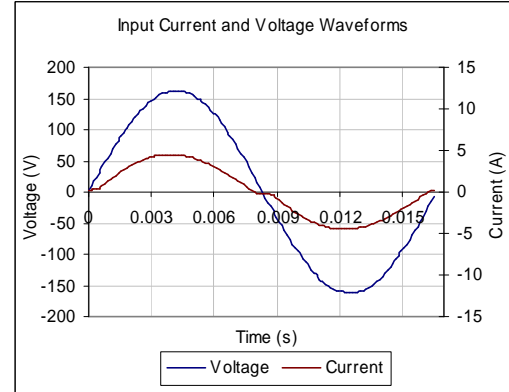
Input AC Current Waveform (ITHD = 13.01%, 50% Load)

I_{RMS} A	PF	I_{THD} (%)	Load (%)	Fraction of Load	Input Watts	12V1	12V2	-12V	3.3V	5V*	5VSB	Output Watts	Efficiency %
0.63	0.99	11.1%	20%	Light	74	12/1.7	12/1.7	12.4/0.1	3.4/1.6	5.1/2.1	5/0.2	60	**81.72%**
1.56	0.99	13.0%	50%	Typical	177	12/4.3	11.9/4.3	12.4/0.2	3.3/4.1	5/5.3	5/0.6	149	**84.10%**
3.14	1.00	8.0%	100%	Full	359	11.9/8.6	11.9/8.6	12.5/0.5	3.3/8.2	4.9/10.5	4.9/1.2	296	**82.34%**

(DC Terminal Voltage (V)/ DC Load Current (A) spans columns 12V1 through 5VSB)

Input and Output Power

Efficiency of the Power Supply

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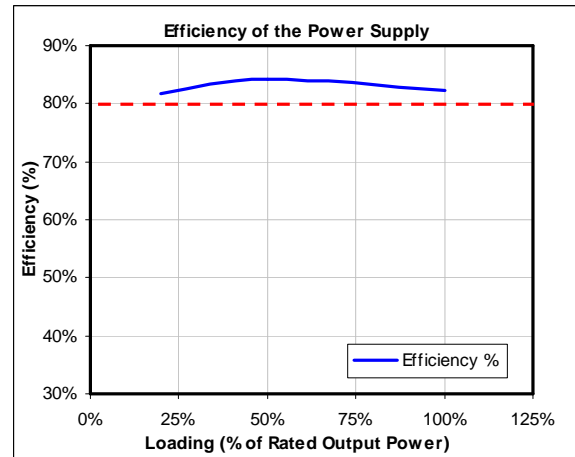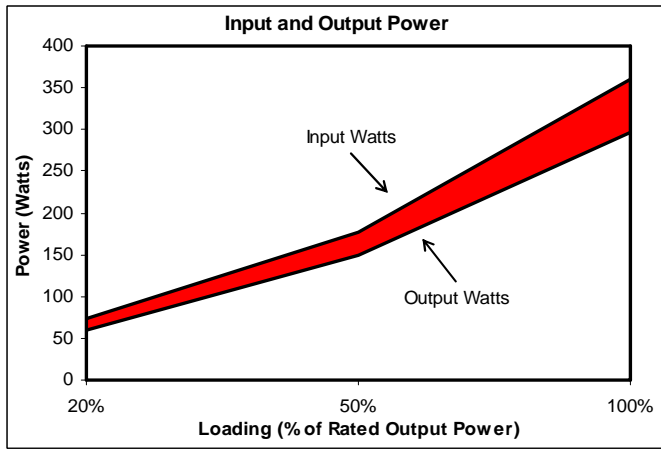
These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.

80 PLUS

Tested by Electric Power Research Institute, Knoxville, TN.