

80 PLUS Verification and Testing Report

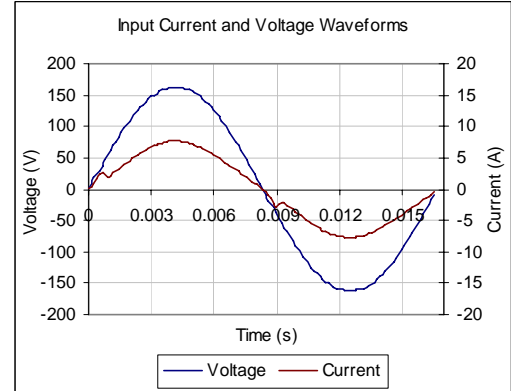
TYPICAL EFFICIENCY (50% Load):	85.07%
AVERAGE EFFICIENCY :	83.03%
80 PLUS COMPLIANT:	YES



Ecos ID #	53
Manufacturer	SilverStone Technology
Model Number	SST-ST50EF
Serial Number	61700143
Year	2006
Type	ATX12V
Test Date	6/29/2006

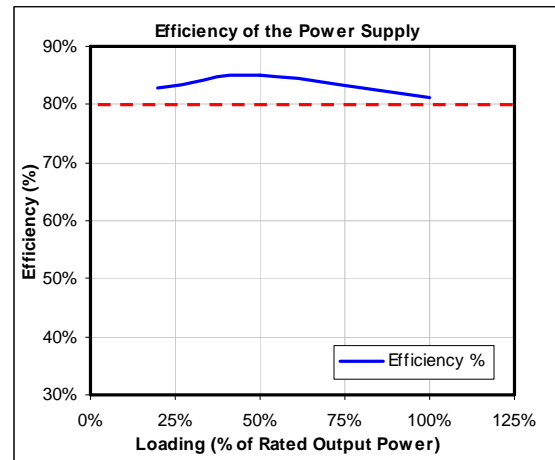
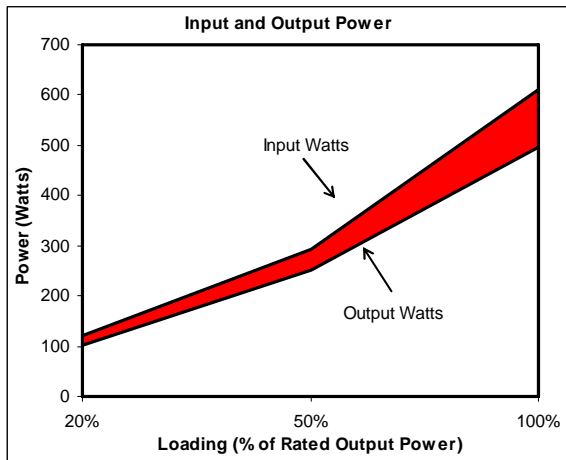
Rated Specifications	Value	Units
Input Voltage	100 - 240	Volts
Input Current	10 - 5	Amps
Input Frequency	60 - 50	Hz
Rated Output Power	500	Watts

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



Input AC Current Waveform ($I_{THD} = 5.7\%$, 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 %
						12V1	12V2	-12V	3.3V	5V*	5VSB		
1.09	0.97	12.1%	20%	Light	122	12.1/3.0	12.1/3.0	11.7/0.05	3.3/3.0	5.0/3.0	5.0/0.5	101	82.82%
2.56	1.00	5.7%	50%	Typical	294	12.0/7.5	12.0/7.5	11.7/0.1	3.3/7.5	5.0/7.5	5.0/1.3	250	85.07%
5.32	1.00	6.4%	100%	Full	611	11.9/15.0	11.9/15.0	11.9/0.2	3.3/15.0	4.9/15.0	4.9/2.5	496	81.18%



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.



Tested by EPRI Solutions Inc., Knoxville, TN.