

80 PLUS Verification and Testing Report

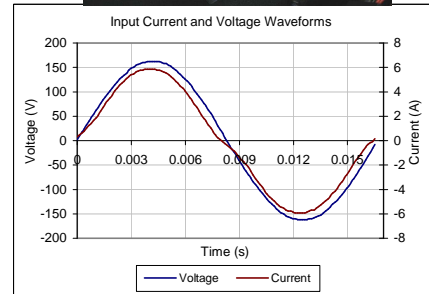
TYPICAL EFFICIENCY (50% Load):	85.78%
AVERAGE EFFICIENCY :	84.53%
80 PLUS COMPLIANT:	YES



Ecos ID #	1332
Manufacturer	SILVERSTONE TECHNOLOGY COMPANY., LTD.
Model Number	SST-ST40NF
Serial Number	N/A
Year	2009
Type	ATX12V
Test Date	3/4/2009

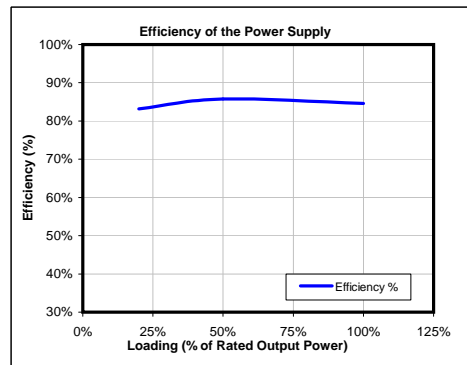
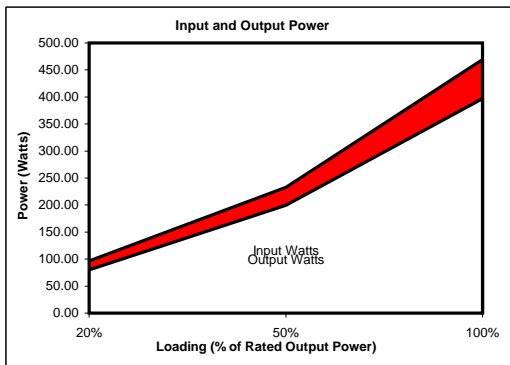
Rated Specifications	Value	Units
Input Voltage	110-240	Volts
Input Current	5-2.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	400	Watts

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



Input AC Current Waveform (ITHD = 10.74%, 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
0.86	0.9697	20.67%	20%	Light	96.44	12/4.6	12.4/0.1	3.3/3.2	5.1/2.3	4.9/0.4	80.24	83.20%
2.04	0.9904	10.74%	50%	Typical	232.54	11.9/11.4	12.4/0.2	3.3/8.1	5/5.6	4.9/1.1	199.48	85.78%
4.10	0.9954	7.95%	100%	Full	469.40	11.9/22.9	12.7/0.4	3.3/16.1	5/11.3	4.9/2.1	397.10	84.60%



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 Electric Power Research Institute, Knoxville, TN.