

# 80 PLUS Verification and Testing Report

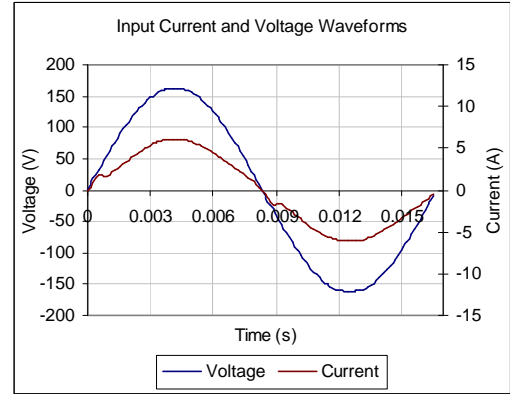
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.50%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>82.60%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	70
<b>Manufacturer</b>	SilverStone Technology
<b>Model Number</b>	SST-ST40EF
<b>Serial Number</b>	62100679
<b>Year</b>	2006
<b>Type</b>	ATX12V
<b>Test Date</b>	8/1/2006

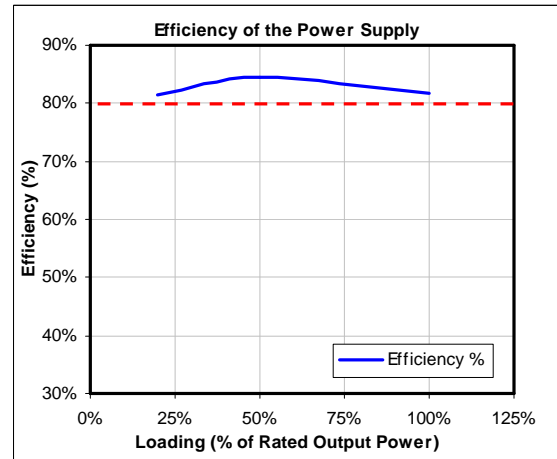
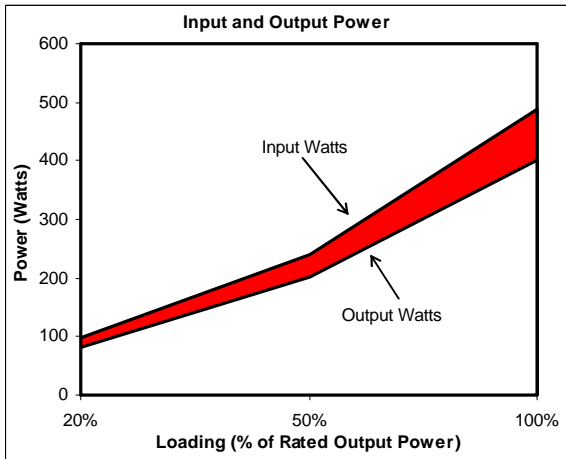
Rated Specifications	Value	Units
Input Voltage	100 - 240	Volts
Input Current	8 - 4	Amps
Input Frequency	60 - 50	Hz
<b>Rated Output Power</b>	<b>400</b>	<b>Watts</b>

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



Input AC Current Waveform ( $I_{THD} = 5.8\%$ , 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		
0.89	0.98	6.2%	20%	Light	100	12.2/2.3	12.2/2.6	11.8/0.04	3.3/2.8	5.0/1.9	5.0/0.4	81	81.55%
2.80	1.00	5.8%	50%	Typical	239	12.2/5.7	12.2/6.5	11.8/0.1	3.3/6.9	5.0/4.8	5.0/1.1	202	84.50%
4.26	1.00	5.8%	100%	Full	489	12.1/11.5	12.1/12.9	12.0/0.2	3.3/13.7	4.9/9.6	4.9/2.2	400	81.76%



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.