

80 PLUS Verification and Testing Report

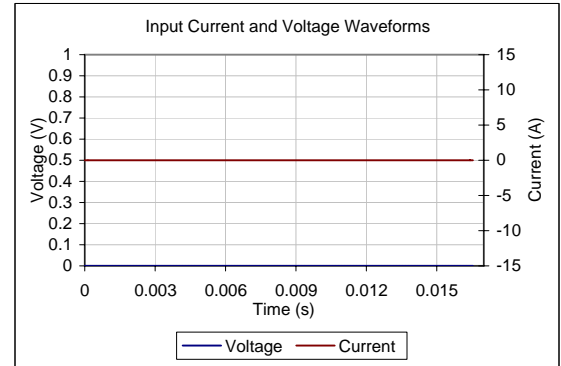


TYPICAL EFFICIENCY (50% Load):	85.80%
AVERAGE EFFICIENCY :	83.81%
80 PLUS COMPLIANT:	YES

Ecos ID #	561
Manufacturer	Antec
Model Number	SG-650
Serial Number	NA
Year	2008
Type	ATX12V
Test Date	2/26/2008

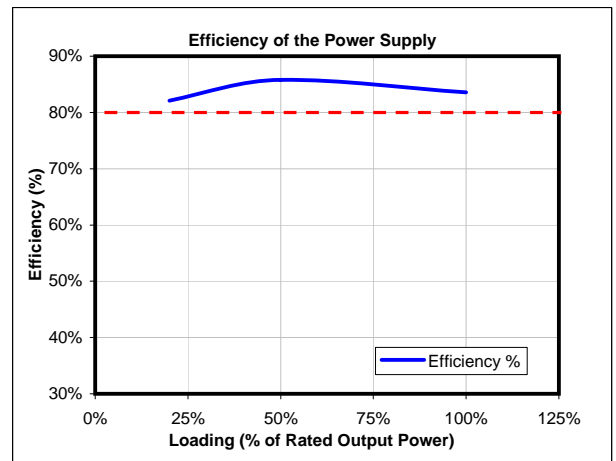
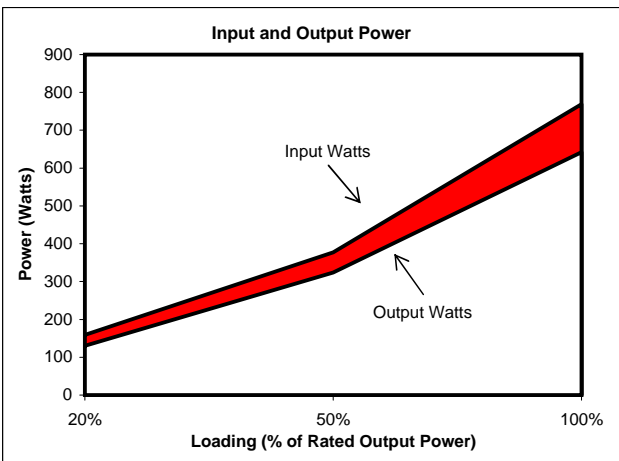
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	47-63	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 6.47%, 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
1.40	0.99	9.1%	20%	Light	159	12/8.3	12/0.1	3.3/3.2	5/3.2	4.9/0.6	131	82.09%
3.30	1.00	6.5%	50%	Typical	378	12/20.7	12/0.2	3.3/8.1	5/8.1	4.8/1.5	324	85.80%
6.70	1.00	6.2%	100%	Full	769	11.9/41.4	12.1/0.5	3.1/16.1	4.9/16.2	4.8/3	642	83.55%



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/>

