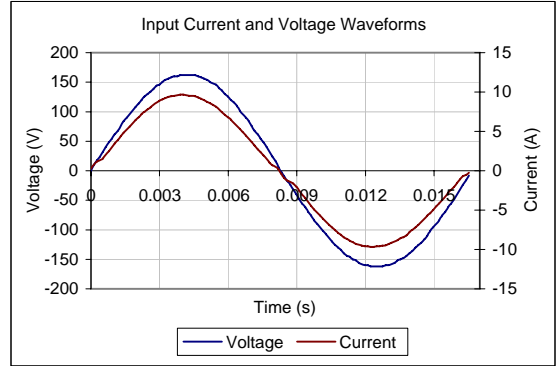


80 PLUS Verification and Testing Report



TYPICAL EFFICIENCY (50% Load): 87.14%
AVERAGE EFFICIENCY : 85.44%
80 PLUS COMPLIANT: YES

Ecos ID #	1026
Manufacturer	FSP
Model Number	FSP650-80TBN
Serial Number	NA
Year	2008
Type	ATX12V
Test Date	10/10/2008

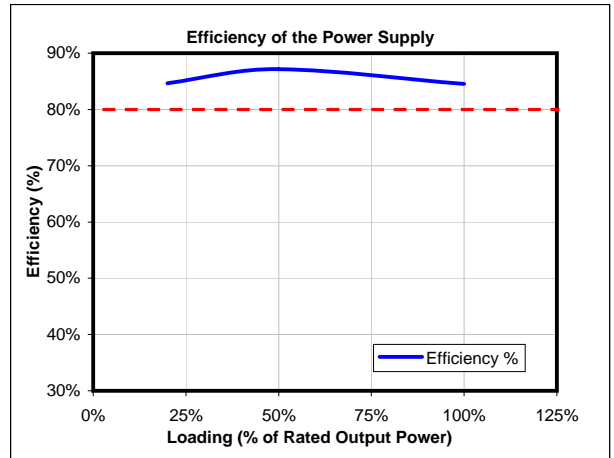
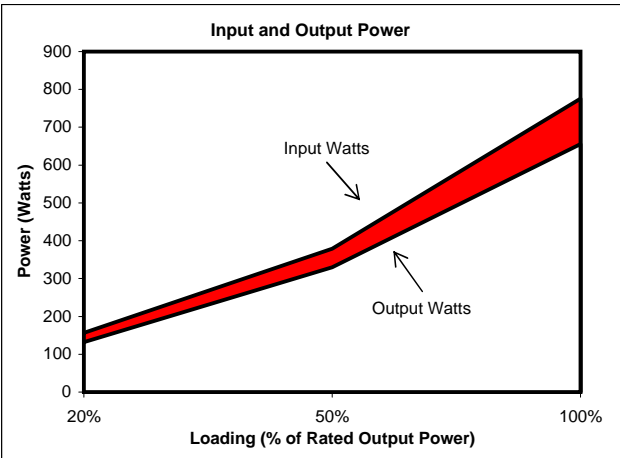


Input AC Current Waveform (ITHD = 5.01%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	11	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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

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
1.37	0.99	6.0%	20%	Light	156	12.2/8.3	12.3/0.1	3.4/2.8	5.2/3.5	5.1/0.5	132	84.63%
3.30	1.00	5.0%	50%	Typical	379	12.1/20.8	12.5/0.2	3.4/7.1	5.1/8.8	5/1.2	330	87.14%
6.75	1.00	4.6%	100%	Full	776	12.1/41.6	12.7/0.4	3.4/14.1	5.1/17.7	5/2.4	656	84.55%



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.