

80 PLUS Verification and Testing Report

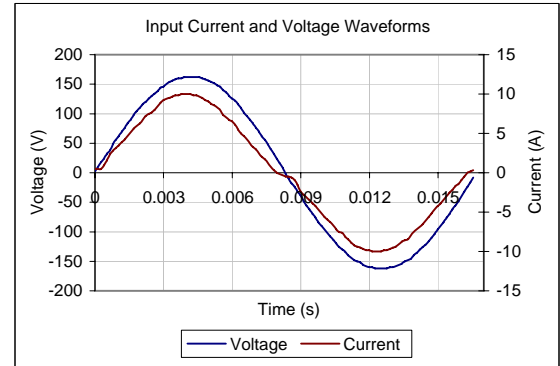


TYPICAL EFFICIENCY (50% Load):	84.91%
AVERAGE EFFICIENCY :	82.83%
80 PLUS COMPLIANT:	YES

Ecos ID #	669
Manufacturer	SUPERMICRO
Model Number	PWS-652-2H
Serial Number	NA
Year	2008
Type	CUSTOM
Test Date	5/14/2008

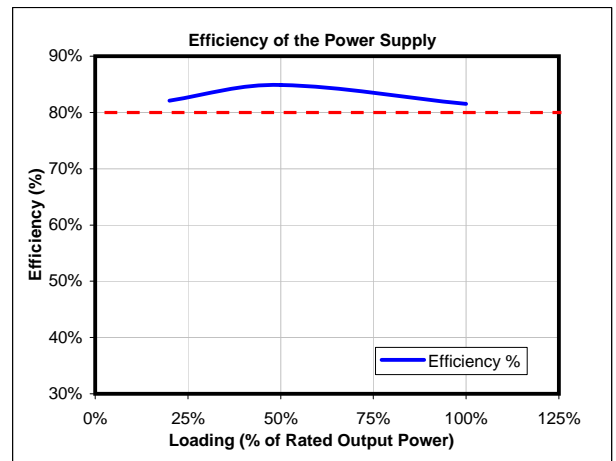
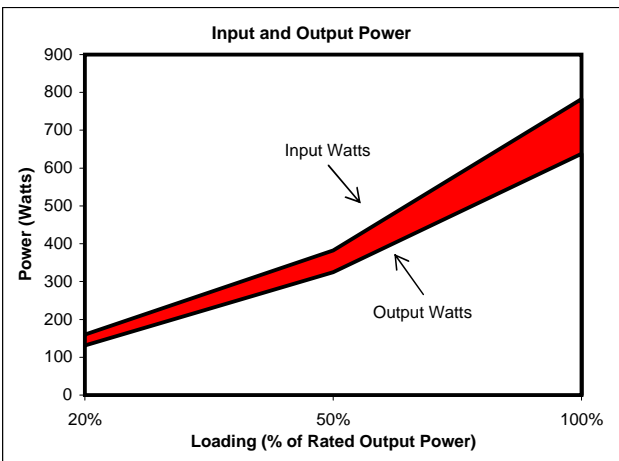
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8.3	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 11.15%, 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
1.42	0.98	16.2%	20%	Light	160	12.1/7.8	12.1/0.1	3.3/3.6	5.1/4.3	5.1/0.6	131	82.07%
3.37	0.99	11.2%	50%	Typical	383	12/19.4	12.2/0.2	3.3/8.9	5/10.7	5/1.4	325	84.91%
6.84	0.99	8.5%	100%	Full	782	11.8/38.8	12.3/0.4	3.1/17.7	4.9/21.4	4.9/2.9	637	81.50%



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.