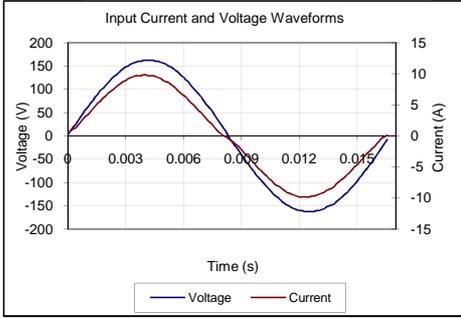


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	87.22%
AVERAGE EFFICIENCY :	85.29%
80 PLUS COMPLIANT:	YES



Ecos ID #	1359
Manufacturer	SUPER MICRO COMPUTER INC.
Model Number	PWS-665-PQ
Serial Number	672042023424
Year	2009
Type	ATX12V
Test Date	3/18/2009

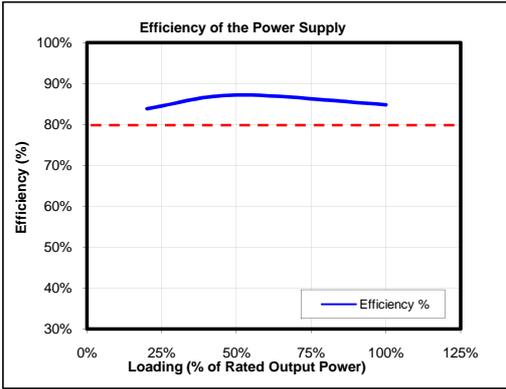
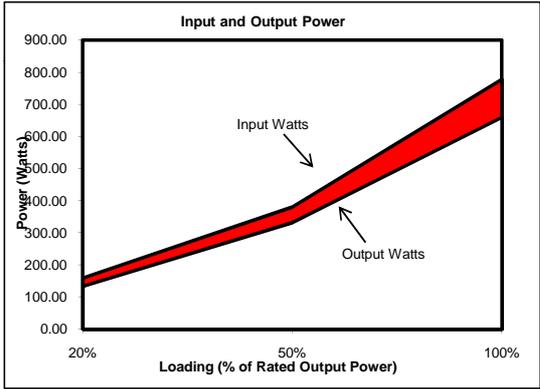


Input AC Current Waveform (ITHD = 6.55%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	665	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		
1.40	0.9855	9.60%	20%	Light	159.19	12/8.4	12/0.1	3.3/2.8	5.1/3.4	5.1/0.9	133.47	83.84%
3.33	0.9948	6.55%	50%	Typical	380.60	11.9/21.1	12/0.2	3.3/6.9	5/8.6	5.1/2.3	331.96	87.22%
6.79	0.9968	6.28%	100%	Full	778.00	11.9/42.1	12/0.4	3.2/13.8	5/17.3	5/4.7	659.90	84.82%



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/>

