80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**96.09%**
AVERAGE EFFICIENCY :	**95.17%**
80 PLUS COMPLIANT:	**YES**

ID Number	SO-1653.1
Manufacturer	Super Micro Computer, Inc
Model Number	PWS-2K08A-1R
Serial Number	N/A
Year	2019
Type	1U
Test Date	01/15/20
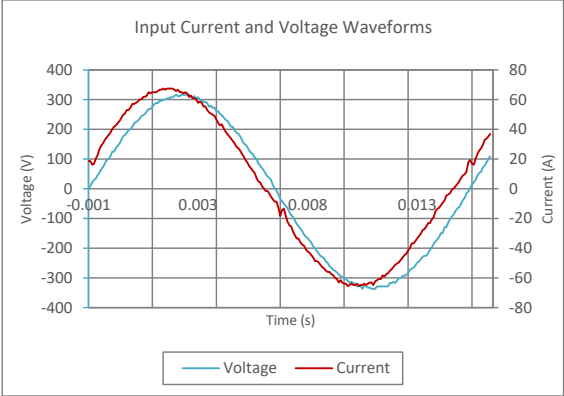
Rated Specifications	Value	Units
Input Voltage	100-127/200-220/220-230/230-240	Volts
Input Current	12-9/10-9.8/10-9.8/10-9.8	Amps
Input Frequency	50-60	Hz
Rated Output Power	2,000	Watts

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

Input Current and Voltage Waveforms

Input AC Current Waveform (ITHD = 3.62%, 50% Load)

I_{RMS}	PF	I_{THD}	Load	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency
							12V	12Vsb		
1.05	0.91	10.57%	10%	Low	220	0.60	12.22/16.37	12/0.35	204	92.80%
1.94	0.97	8.68%	20%	Light	430	0.72	12.21/32.73	11.97/0.69	408	94.89%
4.65	0.99	3.62%	50%	Typical	1060	1.20	12.19/81.8	11.91/1.73	1018	96.09%
9.36	1.00	2.61%	100%	Full	2147	12.12	12.16/163.59	11.84/3.46	2030	94.53%

* Fan power is not included in the efficiency calculations

Input and Output Power

Efficiency of the Power Supply
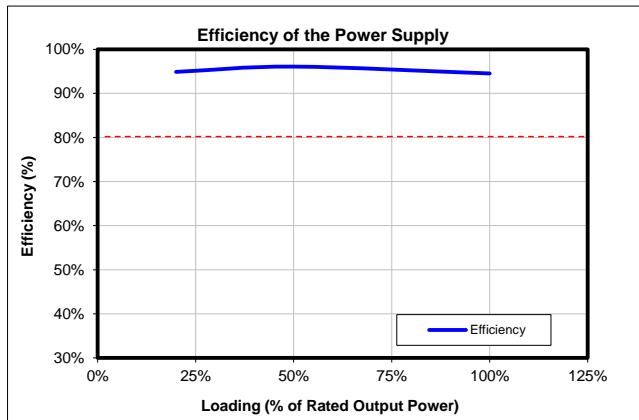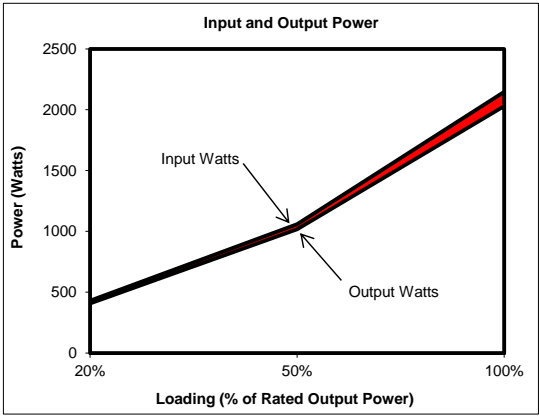
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS® Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. http://www.80plus.org/