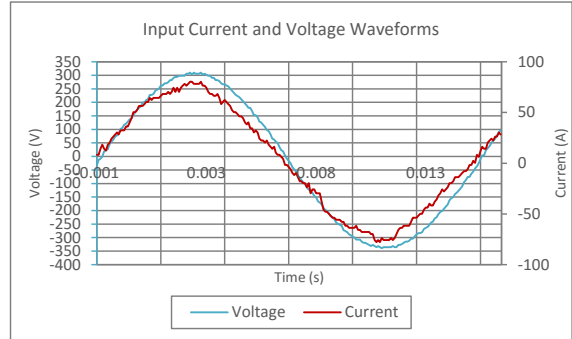


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	96.26%
AVERAGE EFFICIENCY :	95.30%
80 PLUS COMPLIANT:	YES



ID Number	SO-1246.1
Manufacturer	Super Micro Computer, Inc.
Model Number	PWS-2K20A-1R
Serial Number	P2K20G51AB0052
Year	2017
Type	1U
Test Date	03/20/17



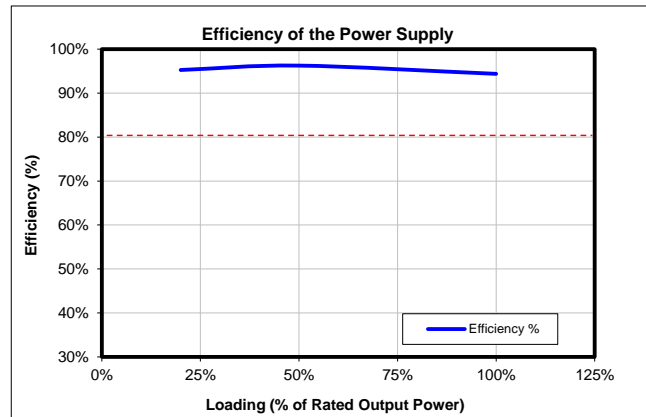
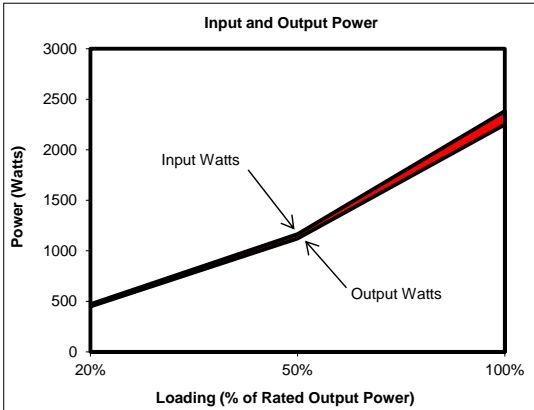
Rated Specifications	Value	Units
Input Voltage	220-240	Volts
Input Current	12-11	Amps
Input Frequency	50-60	Hz
Rated Output Power	2,200	Watts

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

Input AC Current Waveform (ITHD = 5.37%, 50% Load)

I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	5Vsb		
1.17	0.90	12.38	10%	Low	240	1.32	12.21/18.33	5.07/0.1	224	93.49%
2.13	0.96	8.30	20%	Light	471	1.32	12.21/36.68	5.07/0.2	449	95.26%
5.12	0.99	5.37	50%	Typical	1165	23.16	12.2/91.67	5.06/0.5	1121	96.26%
10.37	1.00	2.53	100%	Full	2383	22.44	12.18/184.32	5.04/1	2249	94.38%

* Fan power is not included in the efficiency calculations



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/>

