80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**96.04%**
AVERAGE EFFICIENCY :	**94.95%**
80 PLUS COMPLIANT:	**YES**

| ID Number	SO-1249.1
Manufacturer	Super Micro Computer Inc.
Model Number	PWS-2K21A-BR
Serial Number	P2K21CH03AB0112
Year	2017
Type	2U
Test Date	03/21/17

Input Current and Voltage Waveforms

Input AC Current Waveform (ITHD = 2.85%, 50% Load)
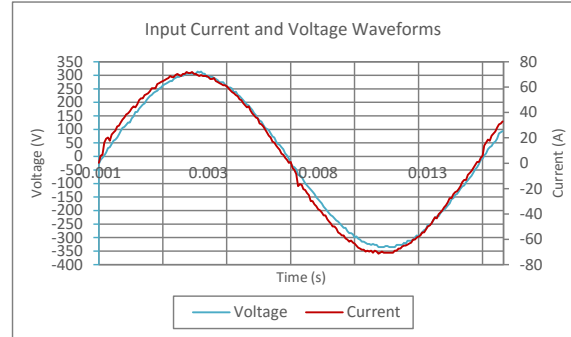
Rated Specifications	Value	Units
Input Voltage	**220-240**	Volts
Input Current	**12-11**	Amps
Input Frequency	**50-60**	Hz
Rated Output Power	**2,200**	Watts

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

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	12Vsb		
1.13	0.93	9.18	10%	**Low**	242	8.16	12.13/18.18	12.13/0.2	223	**92.11%**
2.10	0.98	7.08	20%	**Light**	472	8.04	12.12/36.36	12.12/0.4	446	**94.50%**
5.06	0.99	2.85	50%	**Typical**	1157	35.16	12.1/90.88	12.08/0.99	1111	**96.04%**
10.25	1.00	2.08	100%	**Full**	2353	69.84	12.08/181.75	12.03/1.99	2219	**94.30%**

* Fan power is not included in the efficiency calculations

Input and Output Power

Efficiency of the Power Supply

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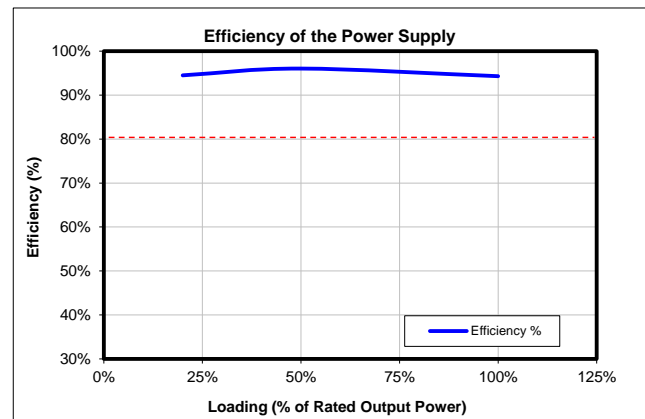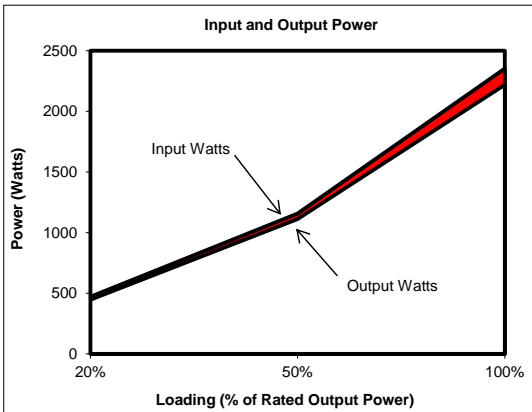
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS® Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. http://www.80plus.org/