

80 PLUS Verification and Testing Report

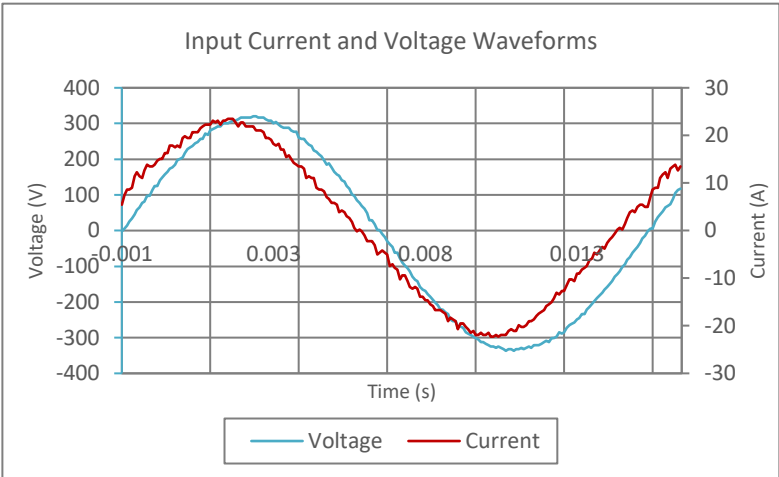
TYPICAL EFFICIENCY (50% Load):	94.07%
AVERAGE EFFICIENCY :	93.03%
80 PLUS COMPLIANT:	YES



ID Number	SO-1682.1
Manufacturer	Super Micro Computer, Inc
Model Number	PWS-609P-1R2
Serial Number	N/A
Year	2020
Type	1U
Test Date	04/08/20

Rated Specifications	Value	Units
Input Voltage	100-127 / 200-240	Volts
Input Current	7-5.5 / 4-3	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

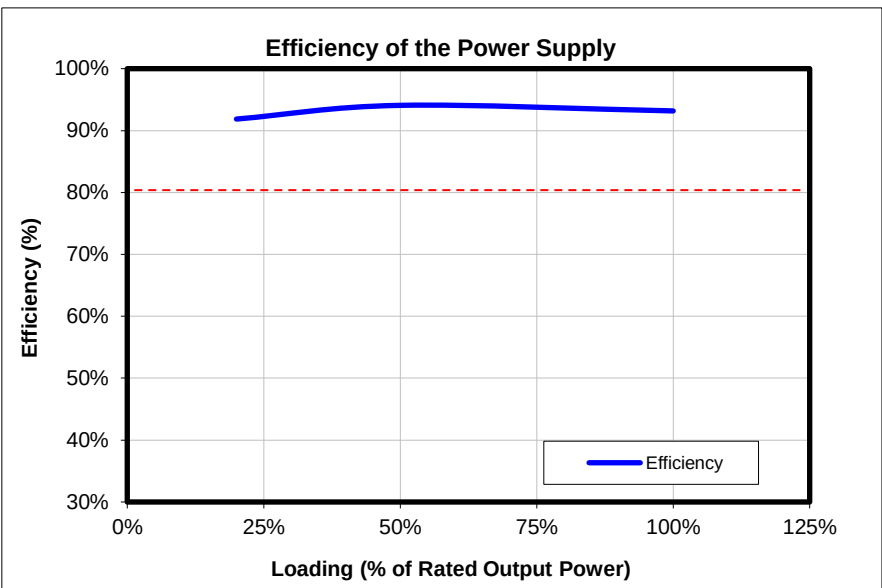
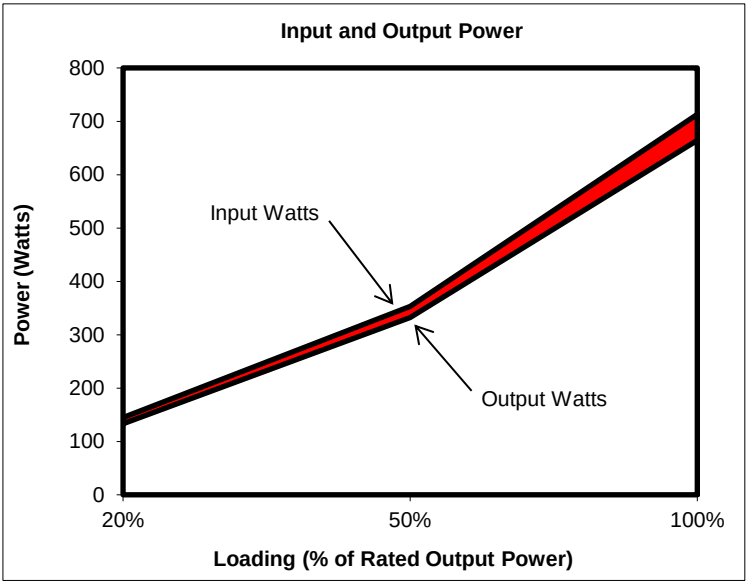
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 4.64%, 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	5Vsb		
0.40	0.82	8.62%	10%	Low	76	1.68	12.26/5.27	5.23/0.39	67	87.44%
0.68	0.93	6.01%	20%	Light	145	1.68	12.24/10.54	5.23/0.78	133	91.86%
1.56	0.98	4.64%	50%	Typical	353	1.68	12.22/26.34	5.21/1.95	332	94.07%
3.12	0.99	3.73%	100%	Full	713	4.56	12.23/52.68	5.19/3.91	664	93.17%

* 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/>

