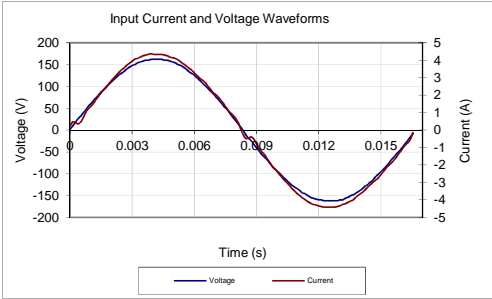


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>92.17%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>90.67%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	4095.1
<b>Manufacturer</b>	Super Micro Computer Inc.
<b>Model Number</b>	PWS-656P-1H
<b>Serial Number</b>	672042156283
<b>Year</b>	2014
<b>Type</b>	1U
<b>Test Date</b>	9/24/14

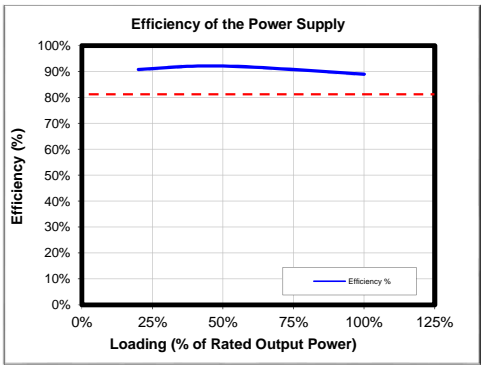
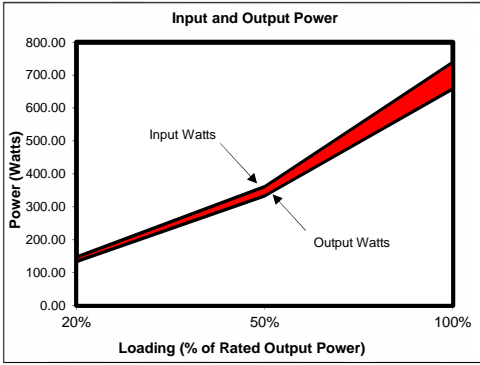


Rated Specifications	Value	Units
Input Voltage	100-127 / 200-240	Volts
Input Current	7.5	Amps
Input Frequency	50/60	Hz
<b>Rated Output Power</b>	<b>650</b>	<b>Watts</b>

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.

Input AC Current Waveform (ITHD = 3.53%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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
0.67	0.98	6.46%	10%	76.18	12.3/4.6		12.1/0	3.3/0.9	5.1/1.1	5.1/0.3	66.69	87.54%
1.28	1.00	5.02%	20%	146.87	12.3/9.1		12.1/0.1	3.3/1.8	5.1/2.2	5.1/0.5	133.41	90.83%
3.14	1.00	3.53%	50%	360.80	12.3/22.8		12.1/0.2	3.3/4.5	5.1/5.4	5.1/1.3	332.54	92.17%
6.44	1.00	2.48%	100%	739.60	12.3/45.3		12.1/0.4	3.3/9.1	5.1/10.8	5/2.5	658.22	89.00%



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/>

