

# 80 PLUS Verification and Testing Report

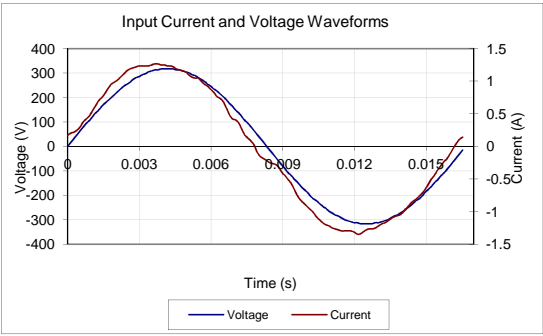
TYPICAL EFFICIENCY (50% Load):	96.64%
AVERAGE EFFICIENCY :	95.80%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-556
Manufacturer	Chicony Power
Model Number	S11-460P1A
Serial Number	6439541321AAB01
Year	2013
Type	1U
Test Date	06/12/13

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6-3	Amps
Input Frequency	N/A	Hz
Rated Output Power	460	Watts

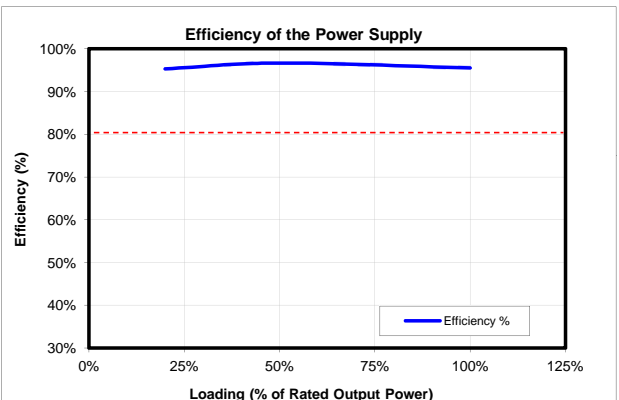
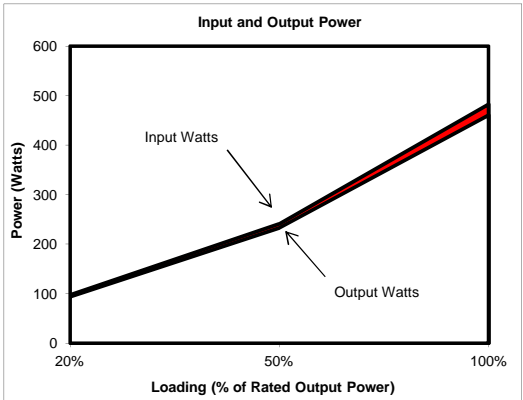
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 5.09%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	12Vsb		
0.23	0.95	16.90	10%	Low	50	0.24	12.26/3.78	11.93/0.05	47	93.26%
0.44	0.96	9.94	20%	Light	98	0.24	12.23/7.54	11.93/0.1	93	95.26%
1.06	0.99	5.09	50%	Typical	241	0.37	12.15/18.95	11.93/0.25	233	96.64%
2.11	0.99	3.26	100%	Full	483	0.85	12.02/37.86	11.91/0.5	461	95.49%

\* 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/>

