

80 PLUS Verification and Testing Report

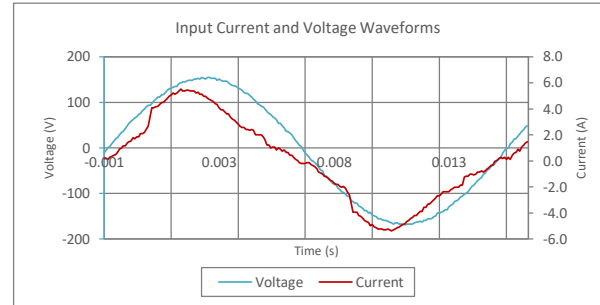
TYPICAL EFFICIENCY (50% Load):	90.79%
AVERAGE EFFICIENCY :	89.79%
80 PLUS COMPLIANT:	YES



ID Number	5598
Manufacturer	EVGA
Model Number	SuperNOVA 650 GA
Serial Number	N/A
Year	2019
Type	ATX12V
Test Date	7/12/19

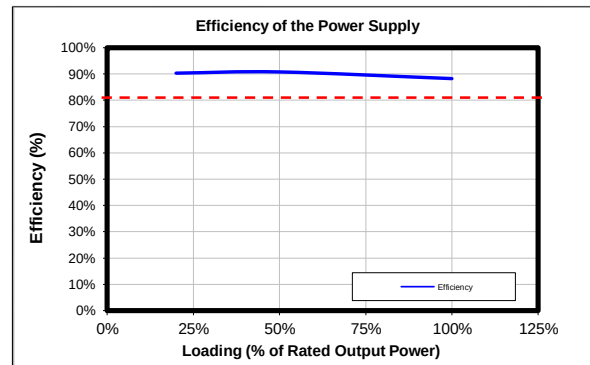
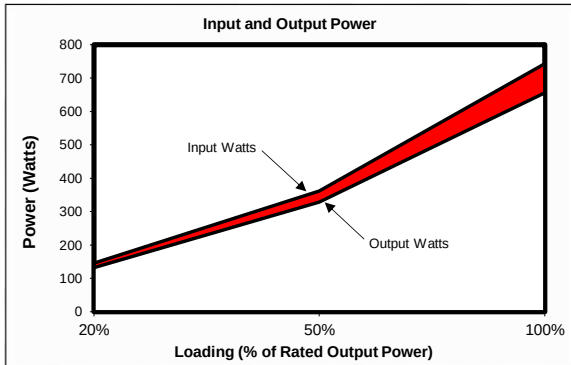
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	60/50	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 19.81%, 50% Load)

I _{RMS}	PF	I _{THD}	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		
0.71	0.93	14.45%	10%	76.10	12.13/4.47	12.11/0.02	3.33/1.19	5.03/1.19	5.11/0.25	65.70	86.34%
1.33	0.95	15.08%	20%	145.90	12.13/8.96	12.12/0.05	3.33/2.39	5.03/2.38	5.09/0.5	131.79	90.33%
3.26	0.97	19.81%	50%	362.10	12.1/22.43	12.06/0.12	3.33/5.98	5.03/5.92	5.04/1.24	328.76	90.79%
6.66	0.97	18.03%	100%	743.10	12.08/44.82	12.14/0.25	3.33/11.94	5.03/11.81	4.94/2.48	655.86	88.26%



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/>

