

80 PLUS Verification and Testing Report

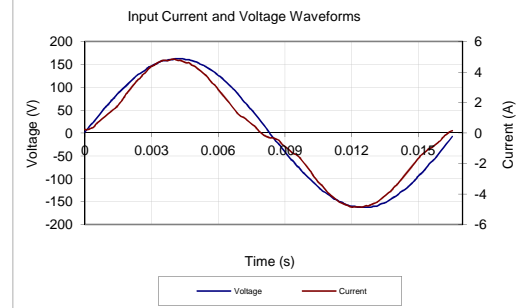
TYPICAL EFFICIENCY (50% Load):	91.05%
AVERAGE EFFICIENCY :	89.32%
80 PLUS COMPLIANT:	YES



Ecos ID #	4150
Manufacturer	EVGA Corporation
Model Number	SuperNova 650GS
Serial Number	N/A
Year	2014
Type	ATX12V,EPS12V
Test Date	11/24/14

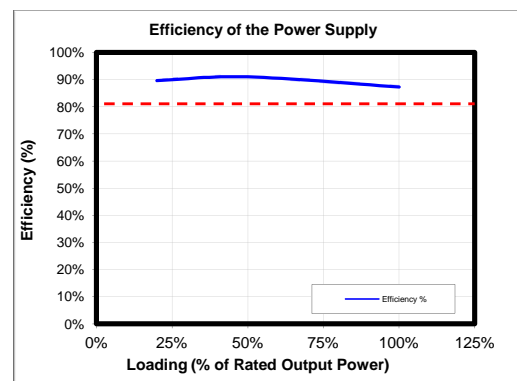
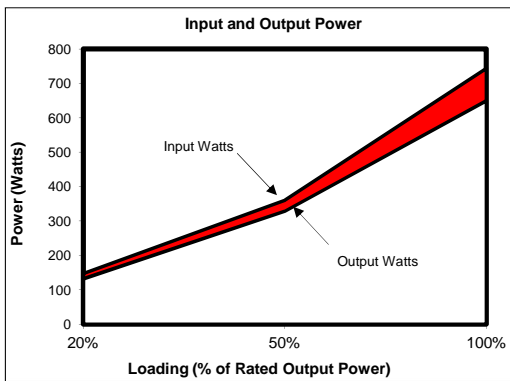
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9-4.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 14.3%, 50% Load)

I _{RMS} A	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		
0.69	0.98	7.09%	10%	78.27	12.2/4.6	11.7/0.03	3.4/1	5/1	5.1/0.21	66.35	84.76%
1.29	0.99	5.80%	20%	147.60	12.2/9.2	11.7/0.05	3.4/2	5/2	5.1/0.43	132.33	89.65%
3.18	0.99	14.30%	50%	361.10	12.1/23	12.0/13	3.4/5.1	5/5.1	5.1/1.06	328.79	91.05%
6.52	0.99	10.91%	100%	744.80	12/46	12.3/0.26	3.3/10.2	4.9/10.2	5/2.13	649.94	87.26%



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/>

