

80 PLUS Verification and Testing Report

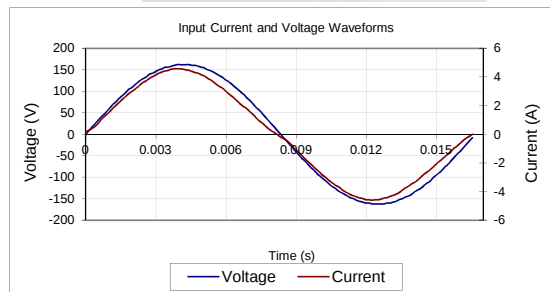
TYPICAL EFFICIENCY (50% Load):	91.16%
AVERAGE EFFICIENCY :	89.72%
80 PLUS COMPLIANT:	YES



Ecos ID #	4469
Manufacturer	EVGA
Model Number	650 GQ
Serial Number	N/A
Year	2015
Type	ATX12V
Test Date	10/20/15

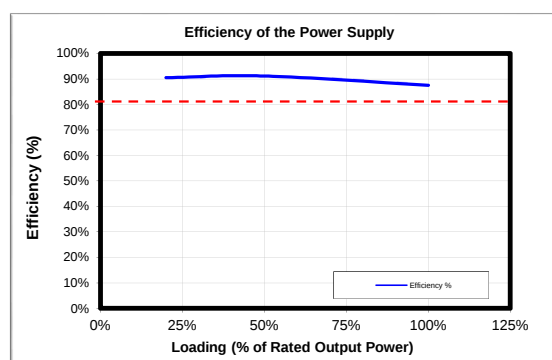
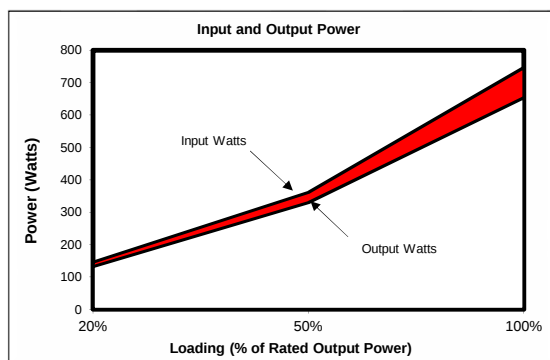
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	60/50	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (THD = 6.13%, 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	0.95	26.07%	10%	75.59	12.16/4.46	11.69/0.04	3.32/1.19	5.03/1.19	5.03/0.25	65.86	87.12%
1.29	0.98	18.20%	20%	145.27	12.13/8.92	11.66/0.08	3.32/2.38	5.03/2.37	5.04/0.49	131.43	90.47%
3.15	1.00	6.13%	50%	360.80	12.11/22.34	11.69/0.21	3.32/5.96	5.04/5.91	5.1/1.24	328.90	91.16%
6.50	1.00	4.38%	100%	746.30	12.02/44.65	11.83/0.41	3.32/11.87	5.04/11.81	5.09/2.47	653.14	87.52%



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/>

