

## 80 PLUS Verification and Testing Report

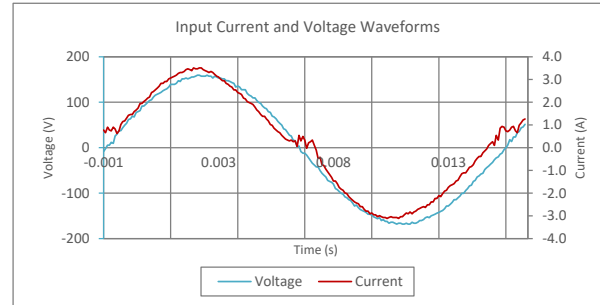
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>91.50%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>90.18%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



ID Number	5334
Manufacturer	EVGA Corporation
Model Number	450 GM
Serial Number	N/A
Year	2018
Type	ATX12V,EPS12V
Test Date	7/24/18

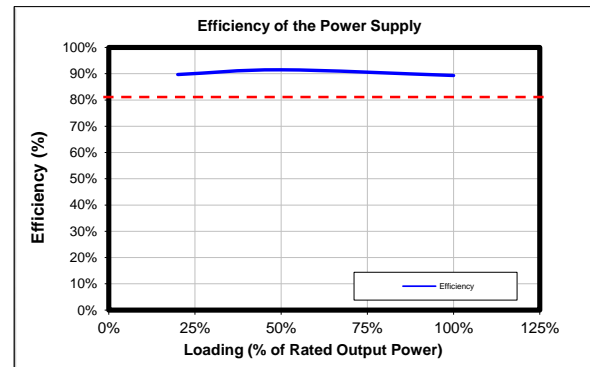
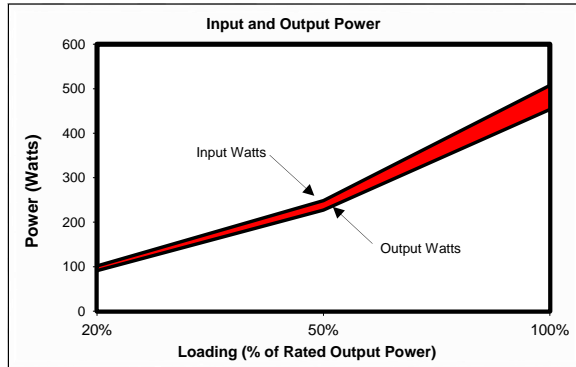
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6.5-3	Amps
Input Frequency	60/50	Hz
Rated Output Power	450	Watts

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



Input AC Current Waveform (I<sub>THD</sub> = 9.53%, 50% Load)

I <sub>RMS</sub>	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		
0.53	0.88	27.99%	10%	53.51	12.12/2.98	11.55/0.02	3.31/0.96	5.12/0.96	5.12/0.2	45.41	84.86%
0.93	0.95	20.42%	20%	101.69	12.12/5.98	11.57/0.05	3.3/1.92	5.11/1.91	5.11/0.4	91.21	89.70%
2.19	0.99	9.53%	50%	248.60	12.1/14.97	11.63/0.12	3.28/4.78	5.08/4.75	5.09/0.99	227.46	91.50%
4.43	1.00	5.67%	100%	507.50	12.08/29.92	11.8/0.24	3.26/9.59	5.04/9.49	5.05/1.99	453.37	89.33%



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/>

