

80 PLUS Verification and Testing Report

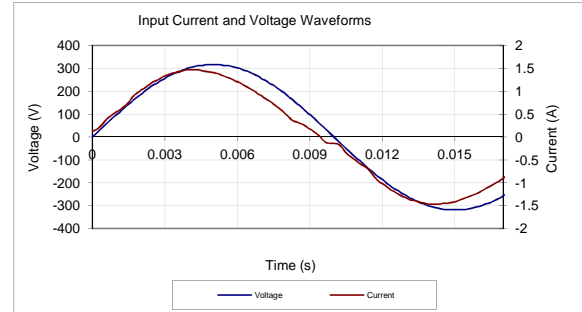
TYPICAL EFFICIENCY (50% Load):	86.91%
AVERAGE EFFICIENCY :	85.28%
80 PLUS COMPLIANT:	YES



Ecos ID #	EU-088
Manufacturer	Enermax Technology Corporation
Model Number	EMP400AGT
Serial Number	N/A
Year	2015
Type	ATX12V
Test Date	3/19/15

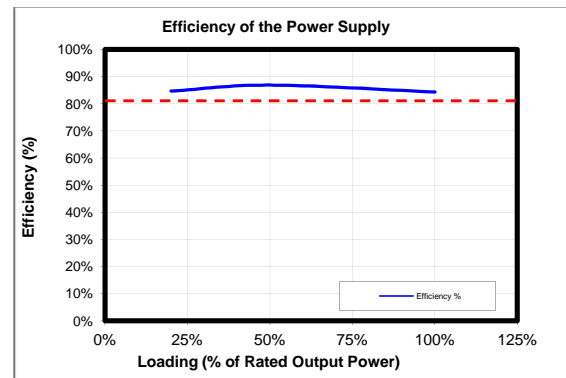
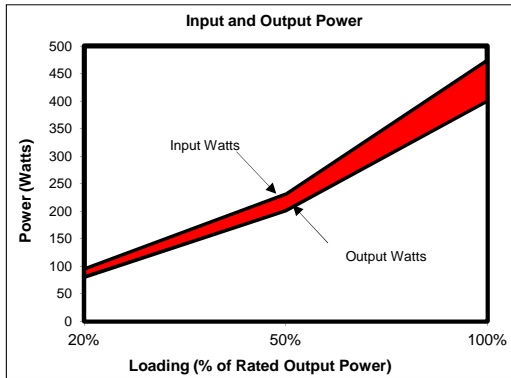
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	3	Amps
Input Frequency	47-63	Hz
Rated Output Power	400	Watts

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



Input AC Current Waveform (I_{THD} = 7.54%, 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		
0.33	0.69	76.81%	10%	51.43	12/2.52	11.68/0.03	3.39/1.01	5.11/1.01	5.09/0.21	40.28	78.32%
0.46	0.90	33.10%	20%	95.03	12/5.05	11.73/0.05	3.38/2.02	5.1/2.01	5.07/0.42	80.43	84.63%
1.02	0.98	7.54%	50%	231.27	12/12.64	11.83/0.13	3.36/5.06	5.07/5.02	5.03/1.05	201.00	86.91%
2.08	0.99	8.65%	100%	474.60	11.99/25.26	12.04/0.25	3.32/10.1	5.02/10.04	4.96/2.1	400.11	84.30%



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/>

