

# 80 PLUS Verification and Testing Report

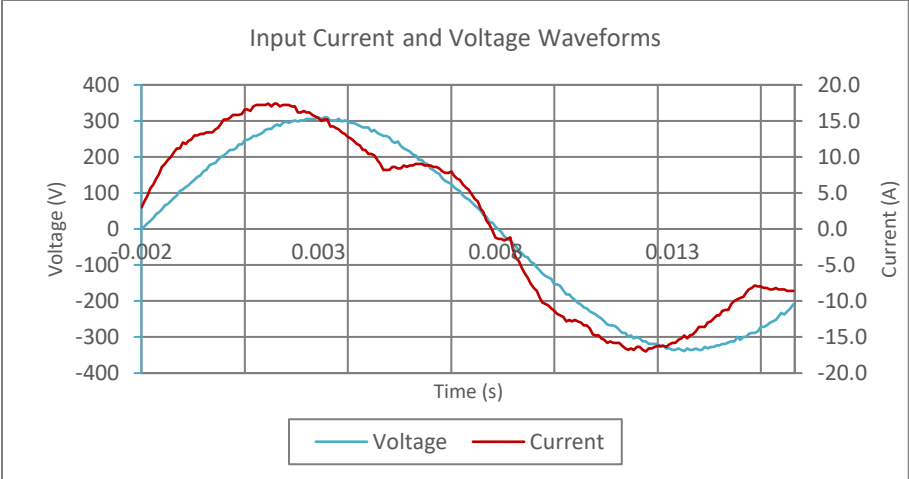
TYPICAL EFFICIENCY (50% Load):	86.69%
AVERAGE EFFICIENCY :	85.43%
80 PLUS COMPLIANT:	YES



ID Number	EU-670
Manufacturer	Cougar
Model Number	XTC450
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	5/22/20

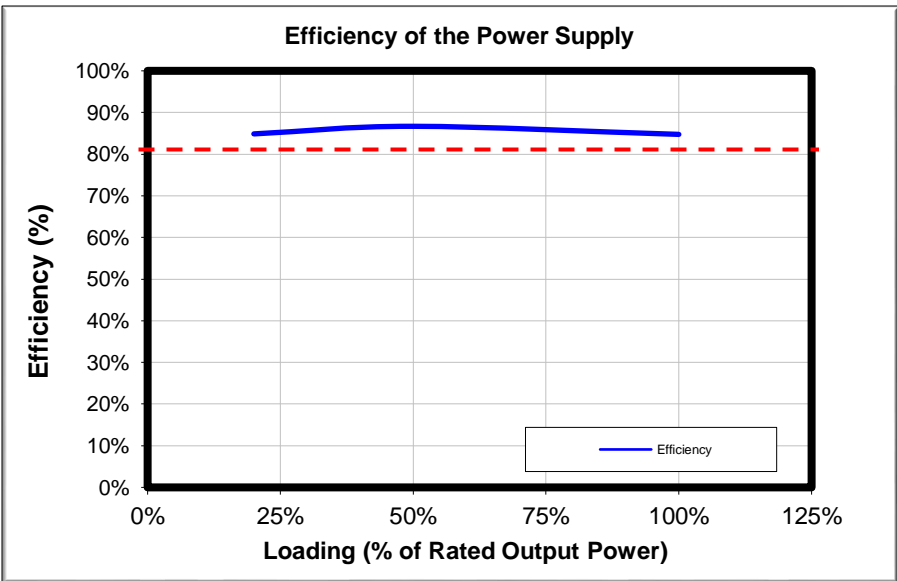
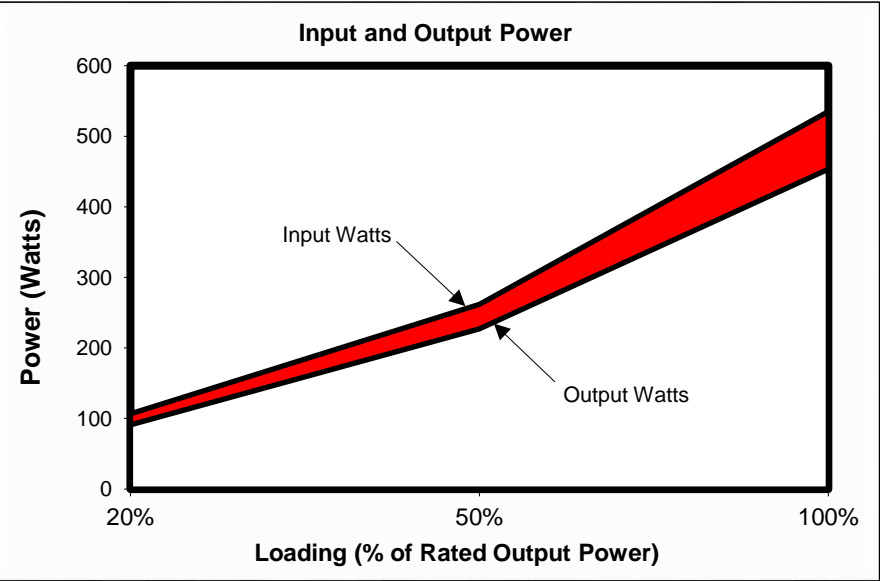
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	6.3	Amps
Input Frequency	50	Hz
Rated Output Power	450	Watts

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



Input AC Current Waveform (ITHD = 17.04%, 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		
0.48	0.52	68.98%	10%	57.00	12.04/2.91	11.98/0.03	3.34/1.08	5.15/1.08	5.05/0.17	45.38	79.62%
0.63	0.74	59.84%	20%	106.90	12.05/5.82	12.03/0.05	3.34/2.16	5.14/2.15	5.04/0.34	90.71	84.86%
1.18	0.97	17.04%	50%	262.00	12.04/14.6	12.14/0.13	3.33/5.41	5.12/5.36	5.02/0.85	227.12	86.69%
2.39	0.97	14.18%	100%	535.00	12.06/29.19	12.32/0.26	3.31/10.82	5.06/10.71	4.97/1.71	453.38	84.74%



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/>

