

80 PLUS Verification and Testing Report

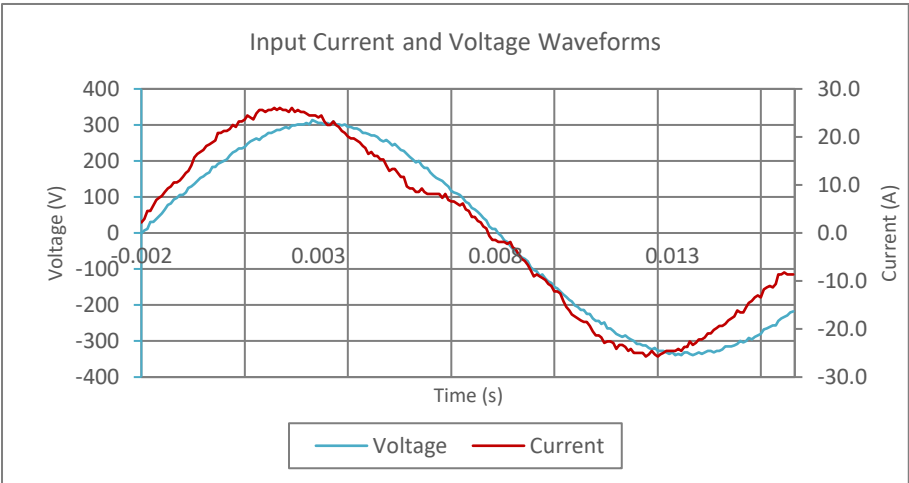
TYPICAL EFFICIENCY (50% Load):	87.09%
AVERAGE EFFICIENCY :	85.78%
80 PLUS COMPLIANT:	YES



ID Number	EU-672
Manufacturer	Cougar
Model Number	XTC650
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	5/22/20

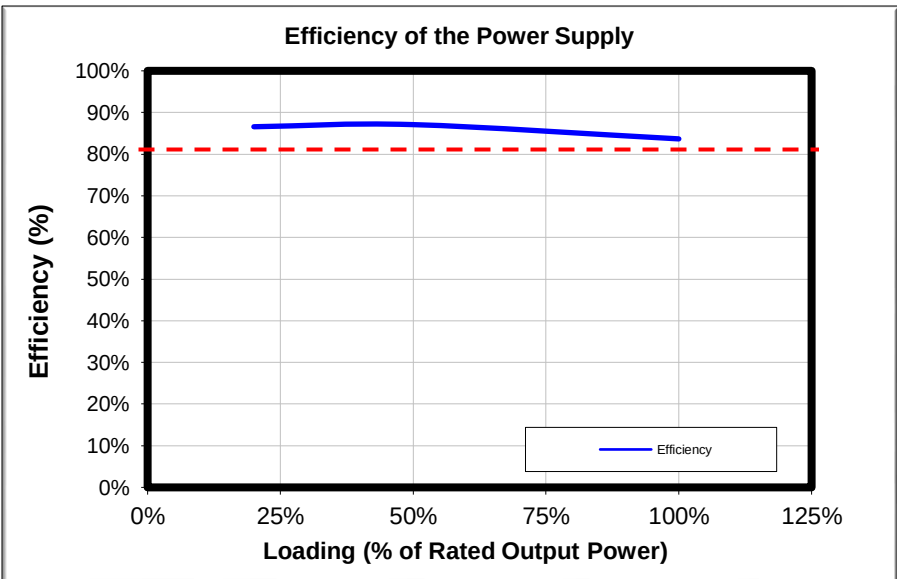
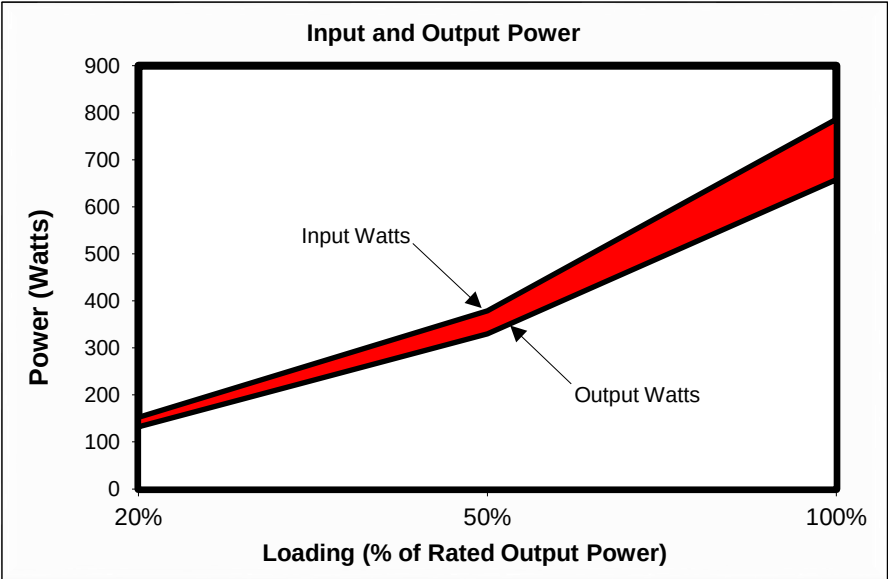
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	6.3	Amps
Input Frequency	50	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 11.89%, 50% Load)

I _{RMS}	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		
0.54	0.64	67.85%	10%	79.97	12.12/4.38	12/0.03	3.35/1.24	5.15/1.37	5.06/0.25	65.94	82.45%
0.76	0.87	43.42%	20%	152.39	12.13/8.78	12.06/0.05	3.34/2.47	5.14/2.72	5.05/0.5	131.93	86.58%
1.68	0.98	11.89%	50%	378.70	12.14/21.97	12.21/0.13	3.33/6.18	5.1/6.8	5/1.26	329.81	87.09%
3.49	0.98	12.53%	100%	786.20	12.18/43.81	12.48/0.25	3.3/12.36	5.02/13.58	4.93/2.52	657.76	83.66%



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/>

