

80 PLUS Verification and Testing Report

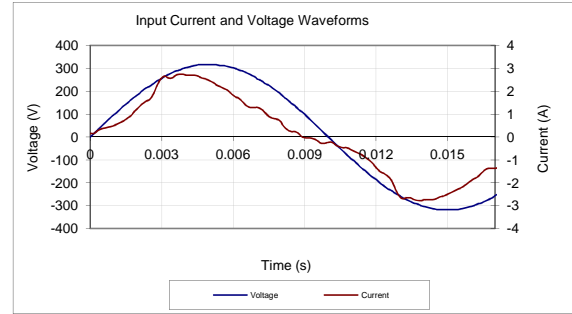
TYPICAL EFFICIENCY (50% Load):	87.54%
AVERAGE EFFICIENCY :	86.02%
80 PLUS COMPLIANT:	YES



Ecos ID #	EU-114
Manufacturer	COUGAR
Model Number	STX650
Serial Number	N/A
Year	2015
Type	ATX12V&EPS12V
Test Date	5/6/15

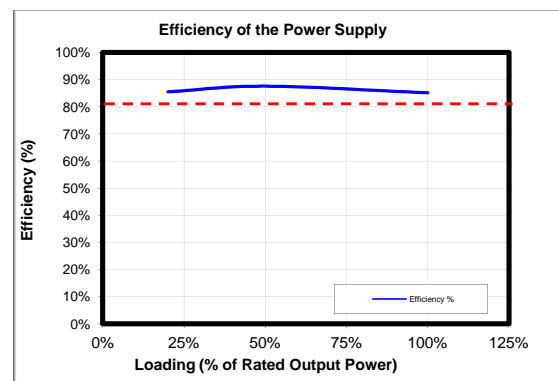
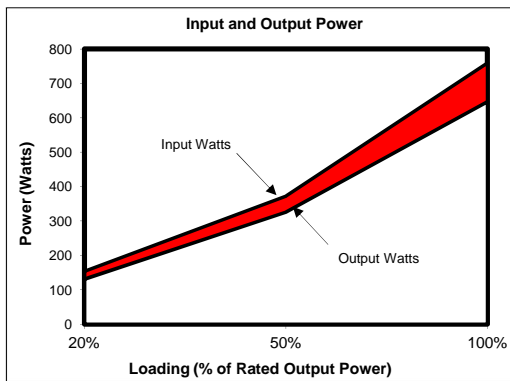
Rated Specifications	Value	Units
Input Voltage	230	Volts
Input Current	5	Amps
Input Frequency	50	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 22.4%, 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		
0.41	0.88	30.63%	10%	82.15	12.13/4.36	12.06/0.03	3.3/1.51	5.05/1.26	5.03/0.25	65.86	80.18%
0.72	0.93	27.63%	20%	153.89	12.1/8.74	12.09/0.05	3.29/3.03	5.03/2.51	5.01/0.5	131.46	85.42%
1.69	0.96	22.40%	50%	373.00	12.05/21.81	12.14/0.13	3.26/7.56	4.99/6.25	4.96/1.26	326.51	87.54%
3.38	0.98	16.20%	100%	760.50	11.96/43.58	12.26/0.25	3.21/15.05	4.93/12.5	4.87/2.52	647.10	85.09%



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/>

