

80 PLUS Verification and Testing Report

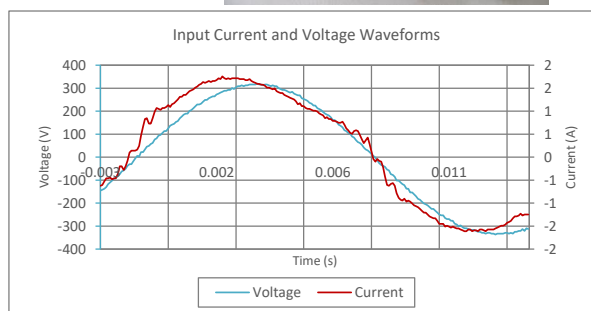
TYPICAL EFFICIENCY (50% Load):	86.97%
AVERAGE EFFICIENCY :	85.36%
80 PLUS COMPLIANT:	YES



ID Number	EU-307
Manufacturer	GTR
Model Number	XR-450P
Serial Number	N/A
Year	2017
Type	SFX
Test Date	3/31/17

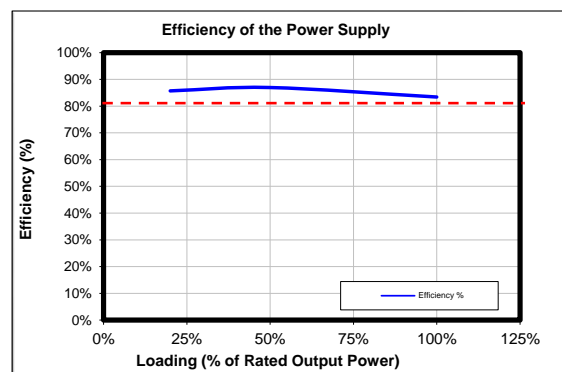
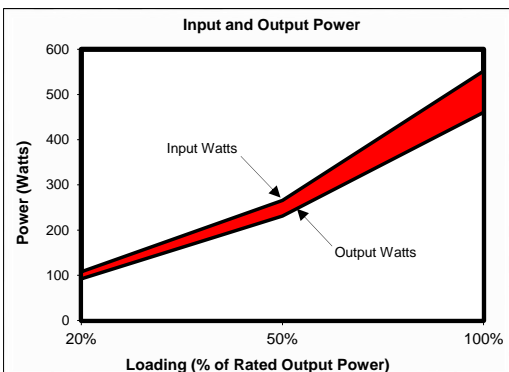
Rated Specifications	Value	Units
Input Voltage	230	Volts
Input Current	5	Amps
Input Frequency	50	Hz
Rated Output Power	450	Watts

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



Input AC Current Waveform (ITHD = 12.05%, 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		
0.31	0.80	33.57%	10%	57.10	12.34/2.87	12.22/0.04	3.34/1.14	5.12/1.07	5.17/0.22	46.34	81.16%
0.50	0.94	12.74%	20%	107.80	12.35/5.72	12.25/0.09	3.33/2.28	5.11/2.13	5.16/0.43	92.39	85.71%
1.18	0.98	12.05%	50%	265.70	12.36/14.33	12.34/0.22	3.31/5.69	5.07/5.3	5.13/1.08	231.07	86.97%
2.42	0.99	9.94%	100%	552.00	12.36/28.6	12.56/0.43	3.29/11.36	5.01/10.59	5.08/2.17	460.44	83.41%



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/>

