

80 PLUS Verification and Testing Report

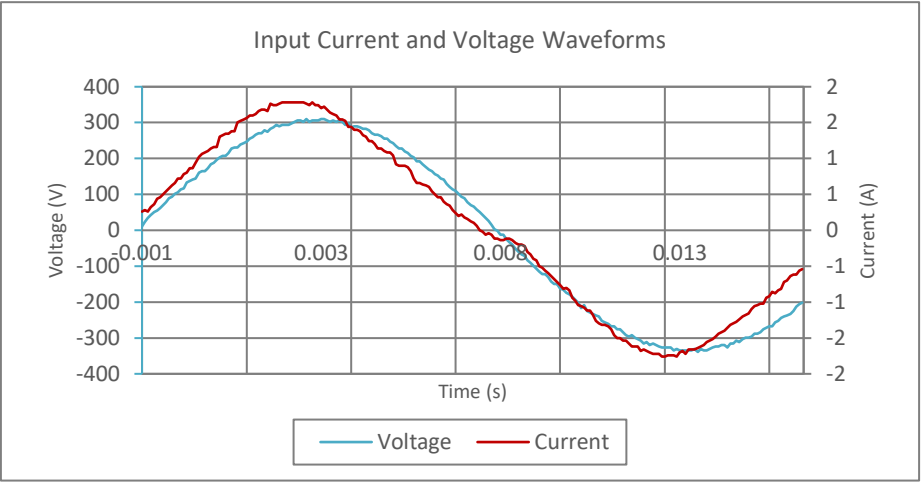
TYPICAL EFFICIENCY (50% Load):	86.49%
AVERAGE EFFICIENCY :	84.72%
80 PLUS COMPLIANT:	YES



ID Number	EU-351.1
Manufacturer	DeepCool
Model Number	PF450D-HA
Serial Number	N/A
Year	2017
Type	ATX12V
Test Date	10/3/17

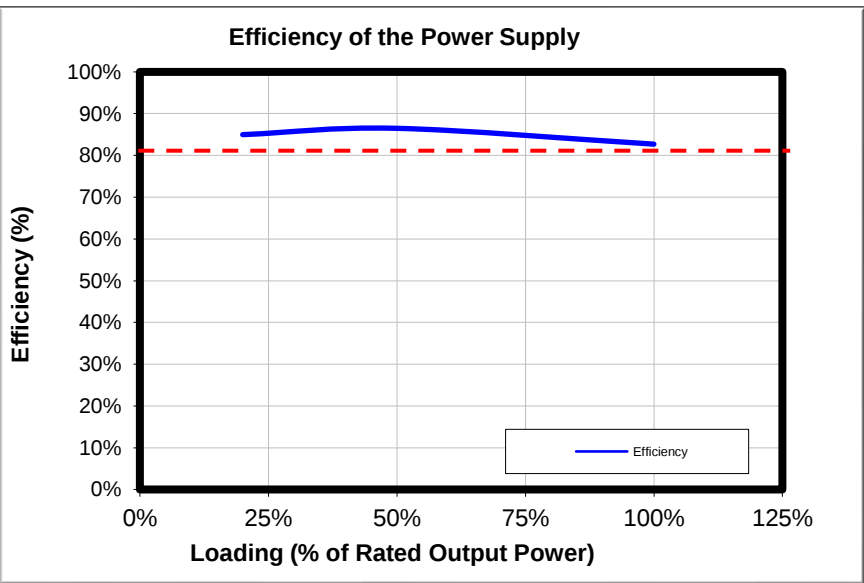
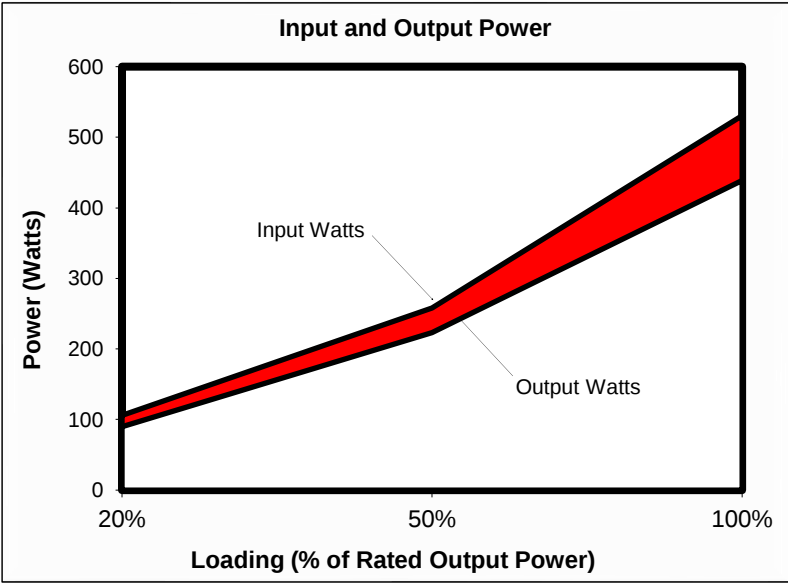
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	3.5	Amps
Input Frequency	47-63	Hz
Rated Output Power	450	Watts

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



Input AC Current Waveform (ITHD = 11.854%, 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		
0.27	0.90	20.45%	10%	54.14	11.87/2.92	11.6/0.03	3.4/1.07	5.13/1.01	5.09/0.21	44.91	82.94%
0.48	0.95	16.26%	20%	105.58	11.86/5.85	11.64/0.05	3.39/2.14	5.11/2.01	5.08/0.43	89.71	84.97%
1.14	0.98	11.85%	50%	257.73	11.81/14.62	11.76/0.13	3.36/5.35	5.07/5.01	5.04/1.07	222.90	86.49%
2.33	0.99	10.92%	100%	530.53	11.68/29.08	12.02/0.26	3.3/10.7	5/10.01	4.97/2.15	438.76	82.70%



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/>