

80 PLUS Verification and Testing Report

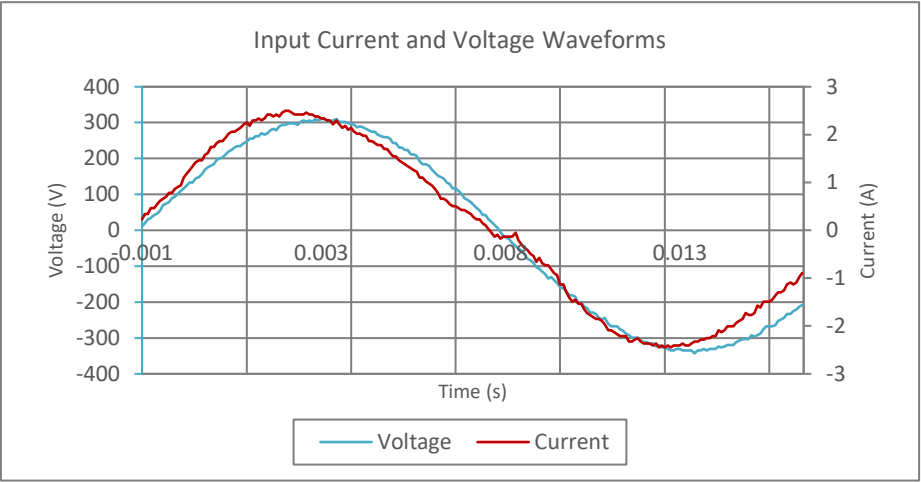
TYPICAL EFFICIENCY (50% Load):	87.32%
AVERAGE EFFICIENCY :	85.61%
80 PLUS COMPLIANT:	YES



ID Number	EU-353.1
Manufacturer	DeepCool
Model Number	PF650D-HA
Serial Number	N/A
Year	2017
Type	ATX12V
Test Date	10/4/17

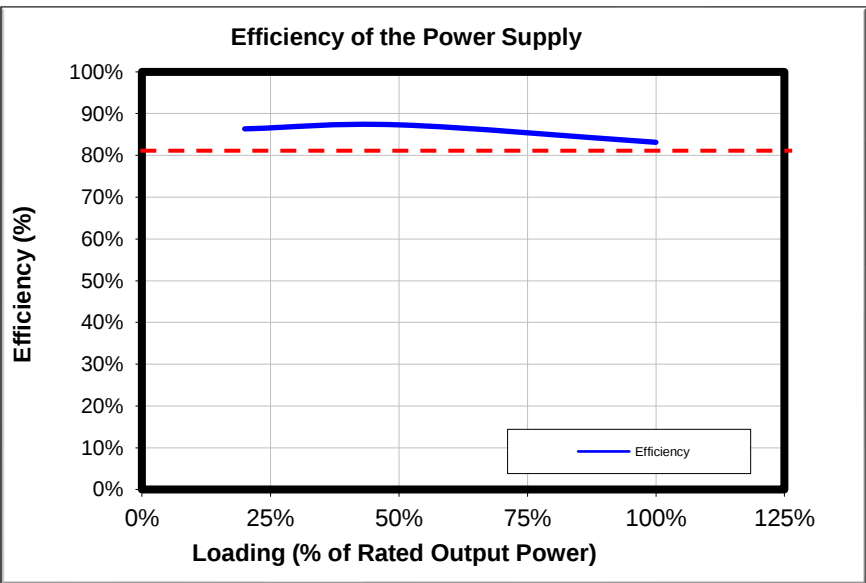
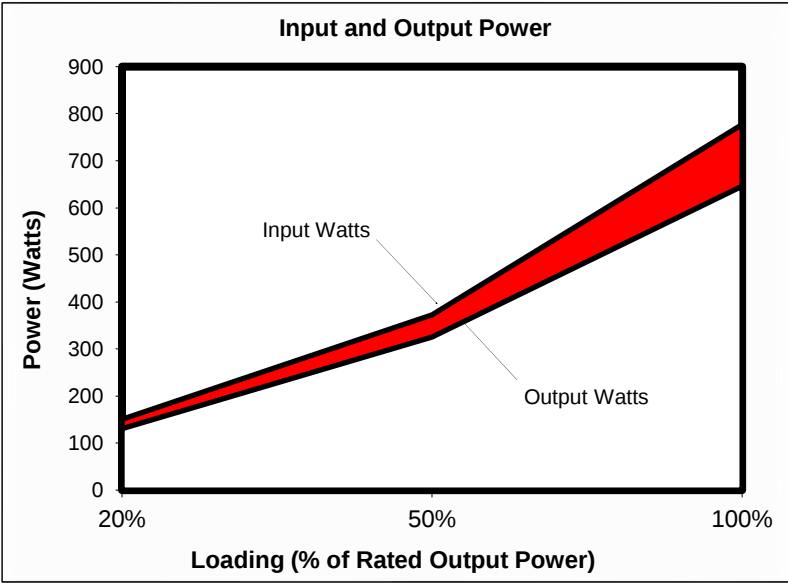
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	5	Amps
Input Frequency	47.63	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 9.071%, 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		
0.47	0.74	62.23%	10%	79.63	11.96/4.43	11.71/0.03	3.38/1.28	5.13/1.28	5.05/0.22	65.28	81.98%
0.69	0.95	24.55%	20%	150.94	11.97/8.86	11.78/0.05	3.37/2.55	5.11/2.54	5.03/0.44	130.35	86.36%
1.64	0.99	9.07%	50%	372.65	11.98/22.13	11.94/0.13	3.34/6.38	5.06/6.33	4.97/1.1	325.40	87.32%
3.41	0.99	9.50%	100%	776.98	11.96/44.08	12.28/0.26	3.29/12.74	4.96/12.66	4.87/2.21	646.00	83.14%



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/>