

80 PLUS Verification and Testing Report

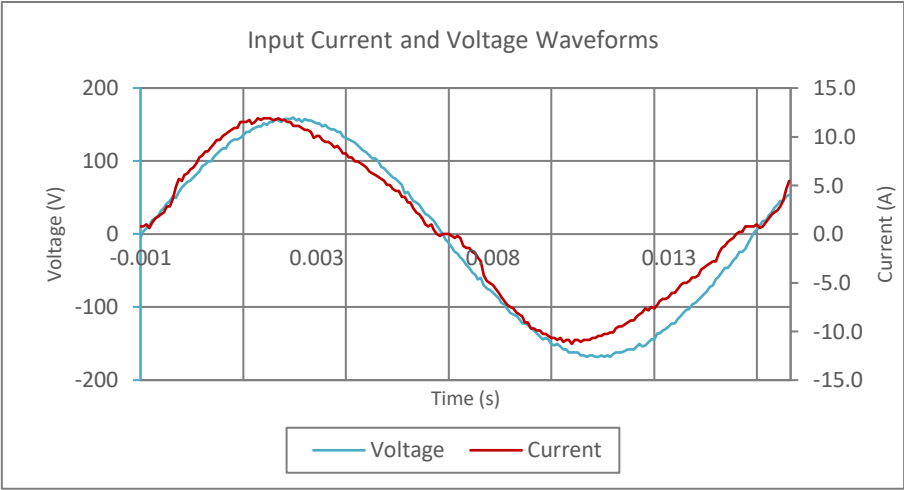
TYPICAL EFFICIENCY (50% Load):	94.31%
AVERAGE EFFICIENCY :	93.50%
80 PLUS COMPLIANT:	YES



ID Number	6433.3
Manufacturer	Phanteks
Model Number	PH-P1600TR_01
Serial Number	N/A
Year	2021
Type	ATX12V
Test Date	2/18/21

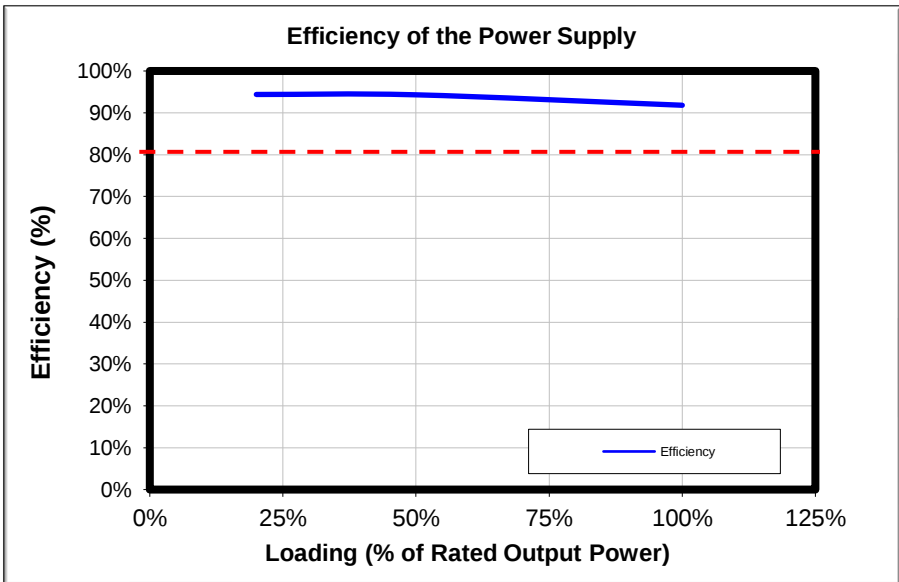
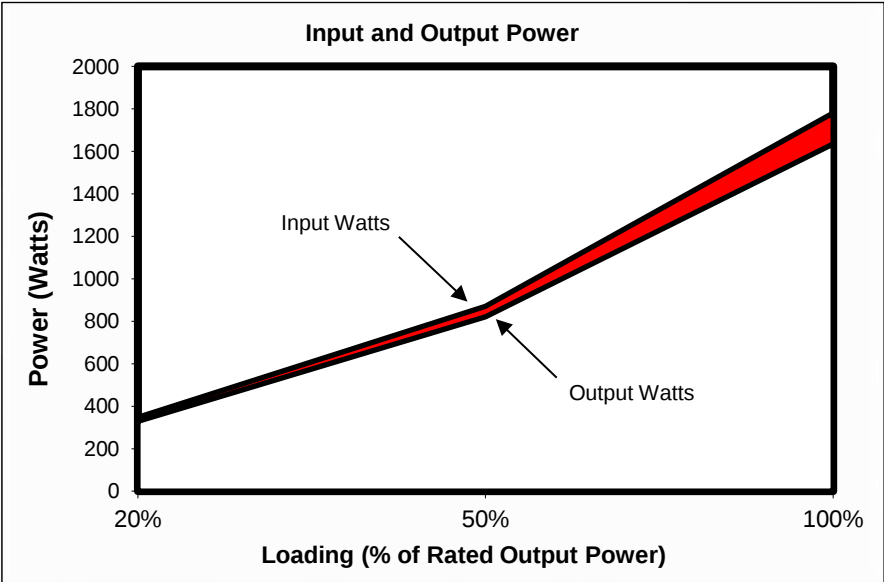
Rated Specifications	Value	Units
Input Voltage	115-240	Volts
Input Current	15-10	Amps
Input Frequency	60/50	Hz
Rated Output Power	1600	Watts

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 9.67%, 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		
1.62	0.96	16.83%	10%	178.29	12.28/12.25	11.88/0.05	3.32/1.38	5.06/1.38	5.01/0.27	163.93	91.95%
3.09	0.98	14.90%	20%	348.30	12.28/24.57	11.86/0.09	3.35/2.76	5.07/2.74	5/0.55	328.76	94.39%
7.65	0.99	9.67%	50%	870.80	12.29/61.33	11.87/0.23	3.37/6.9	5.07/6.84	4.98/1.37	821.23	94.31%
15.57	0.99	6.77%	100%	1780.50	12.28/122.08	11.88/0.46	3.39/13.83	5.08/13.66	4.89/2.75	1634.77	91.82%



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/>