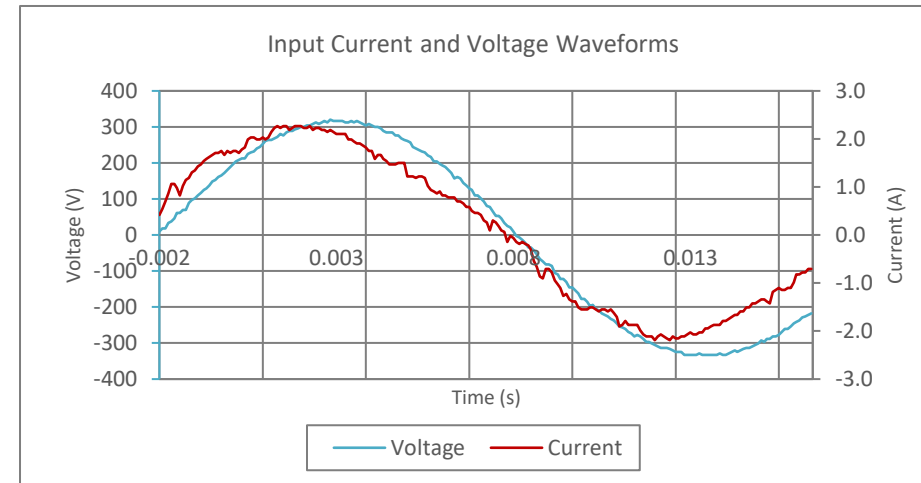


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	92.26%
AVERAGE EFFICIENCY :	91.10%
80 PLUS COMPLIANT:	YES



ID Number	EU-782
Manufacturer	1st Player
Model Number	HA-600AA2
Serial Number	N/A
Year	2021
Type	ATX12V, EPS12V
Test Date	1/18/21

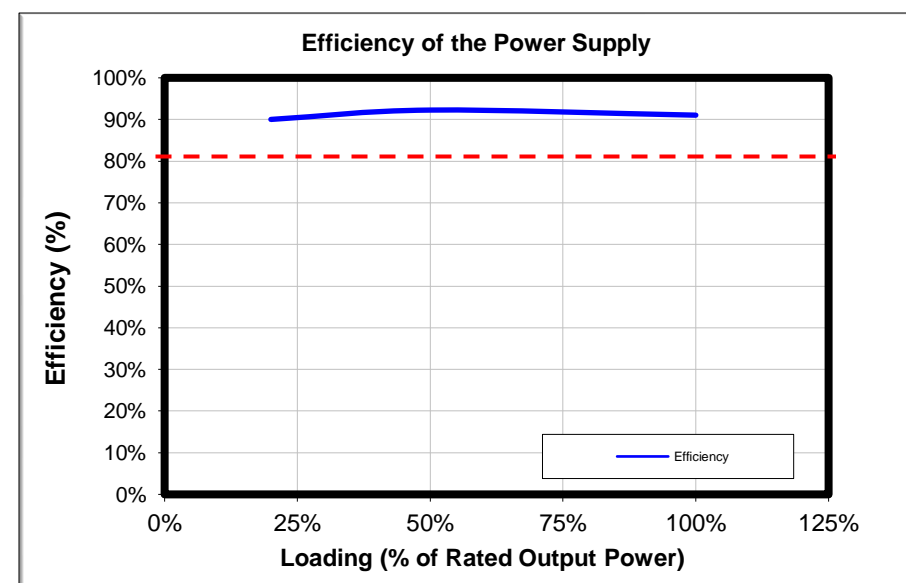
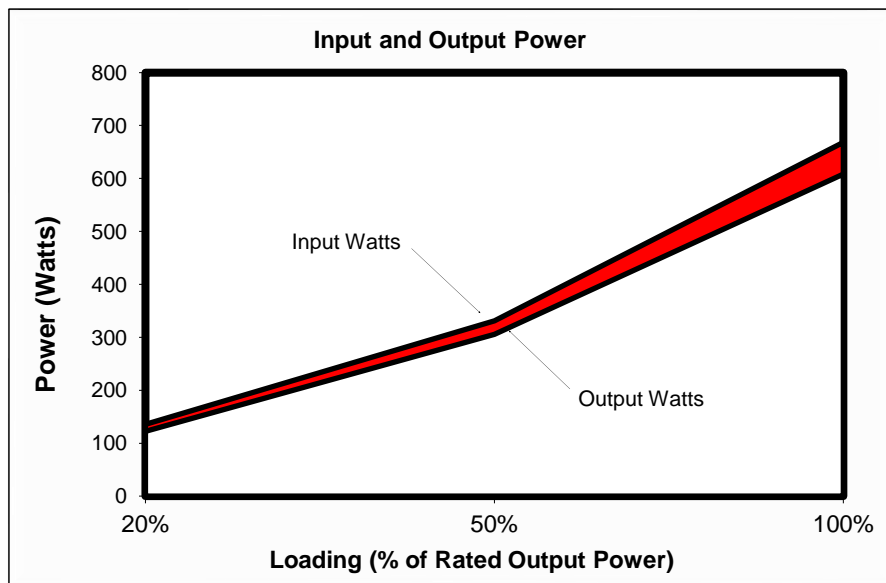


Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	8	Amps
Input Frequency	50-60	Hz
Rated Output Power	600	Watts

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

Input AC Current Waveform (ITHD = 8.38%, 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		
0.42	0.75	27.35%	10%	72.24	12.2/4.19	11.88/0.03	3.34/1.01	5.09/1.01	5.14/0.21	61.05	84.51%
0.66	0.89	16.15%	20%	135.95	12.19/8.42	11.64/0.05	3.34/2.02	5.09/2.01	5.13/0.42	122.37	90.01%
1.48	0.97	8.38%	50%	331.00	12.18/21.06	11.38/0.13	3.31/5.05	5.06/5.01	5.09/1.05	305.38	92.26%
2.95	0.99	7.85%	100%	668.30	12.16/42.09	11.52/0.25	3.27/10.1	5.01/9.99	5.02/2.09	608.38	91.03%



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/>