

# 80 PLUS Verification and Testing Report

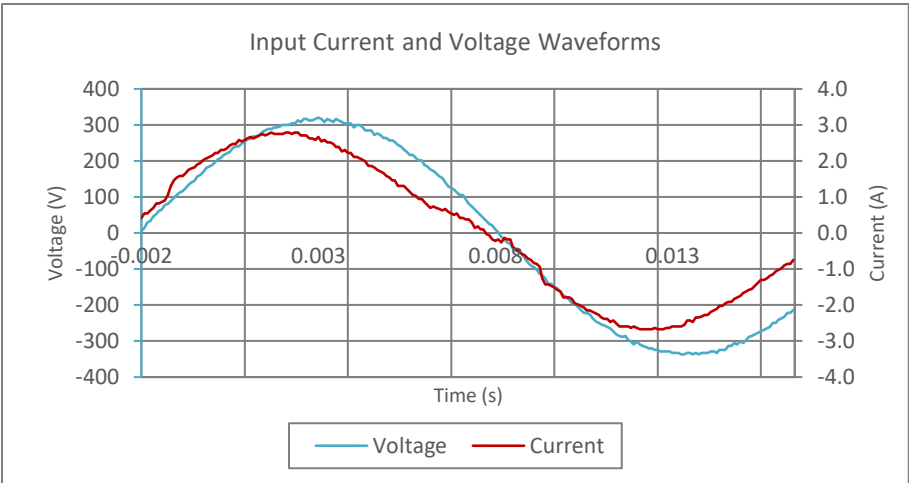
TYPICAL EFFICIENCY (50% Load):	89.09%
AVERAGE EFFICIENCY :	87.34%
80 PLUS COMPLIANT:	YES



ID Number	EU-785
Manufacturer	1st Player
Model Number	HA-700AC2
Serial Number	N/A
Year	2021
Type	ATX12V
Test Date	1/18/21

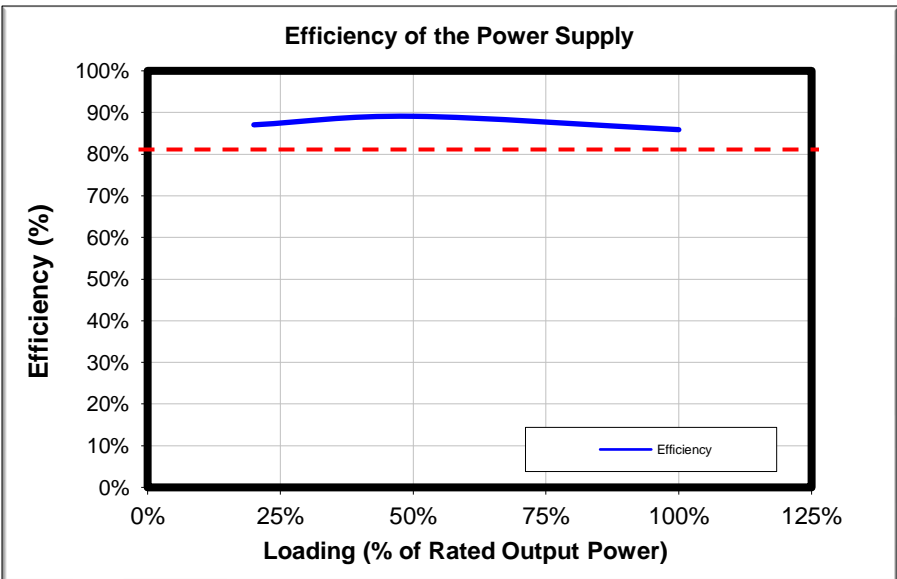
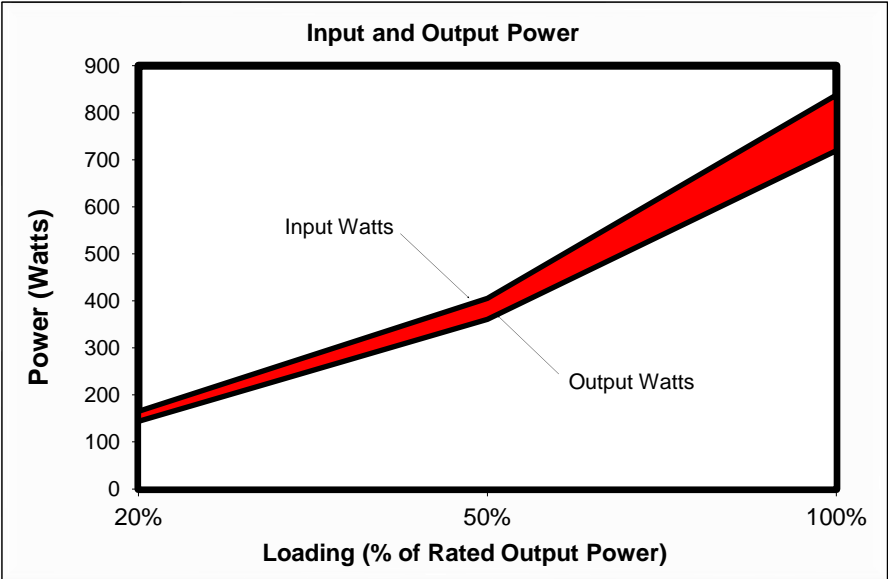
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	10	Amps
Input Frequency	50-60	Hz
Rated Output Power	700	Watts

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



Input AC Current Waveform (ITHD = 10.28%, 50% Load)

I <sub>RMS</sub>	PF	I <sub>THD</sub>	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		
0.46	0.84	13.57%	10%	88.31	12.34/5.01	12.47/0.03	3.39/1.04	5.12/1.04	5.04/0.22	72.22	81.78%
0.78	0.93	12.38%	20%	165.58	12.35/10.02	12.48/0.05	3.39/2.08	5.11/2.07	5.03/0.43	144.12	87.04%
1.81	0.97	10.28%	50%	405.00	12.35/25.12	12.44/0.13	3.36/5.19	5.09/5.15	4.98/1.08	360.82	89.09%
3.69	0.99	6.27%	100%	837.70	12.34/50.17	12.56/0.26	3.31/10.4	5.04/10.29	4.9/2.15	719.41	85.88%



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/>