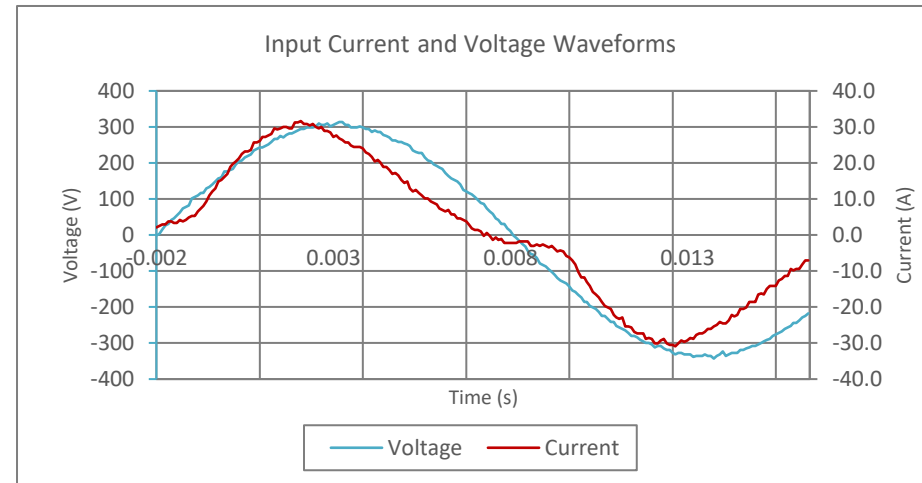


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	88.23%
AVERAGE EFFICIENCY :	86.96%
80 PLUS COMPLIANT:	YES



ID Number	EU-676
Manufacturer	HANMI MICRONICS INC.
Model Number	HP1-N700ST-E12S
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	5/27/20

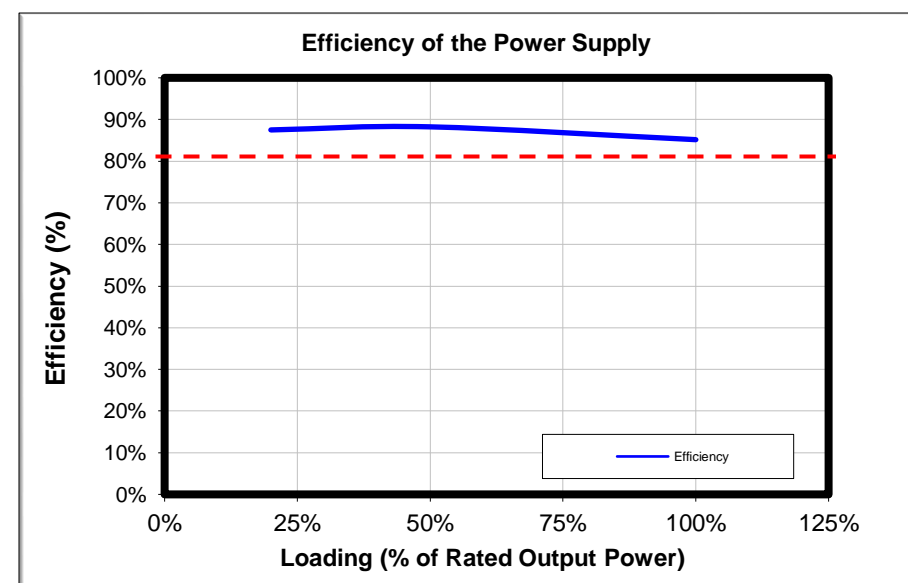
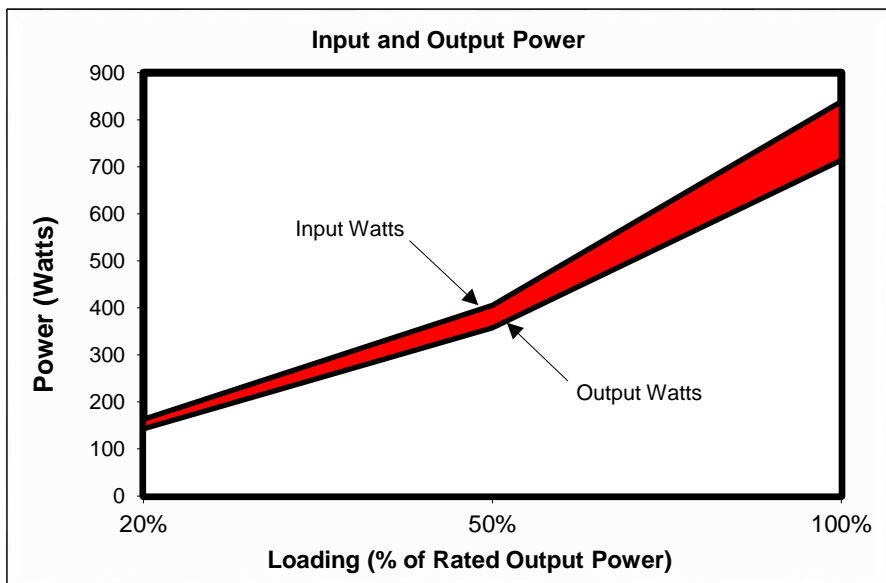


Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	6.3	Amps
Input Frequency	50-60	Hz
Rated Output Power	700	Watts

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

Input AC Current Waveform (ITHD = 21.97%, 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	0.87	30.48%	10%	84.76	12.23/4.87	12.27/0.03	3.32/1.21	5.09/1.21	5.17/0.25	71.40	84.23%
0.77	0.92	25.90%	20%	163.50	12.23/9.78	12.33/0.05	3.32/2.41	5.09/2.4	5.16/0.5	143.05	87.49%
1.84	0.96	21.97%	50%	405.40	12.23/24.47	12.46/0.13	3.31/6.04	5.08/5.98	5.14/1.25	357.70	88.23%
3.77	0.97	19.64%	100%	838.50	12.23/48.86	12.7/0.25	3.31/12.08	5.08/11.95	5.1/2.5	714.04	85.16%



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/>

