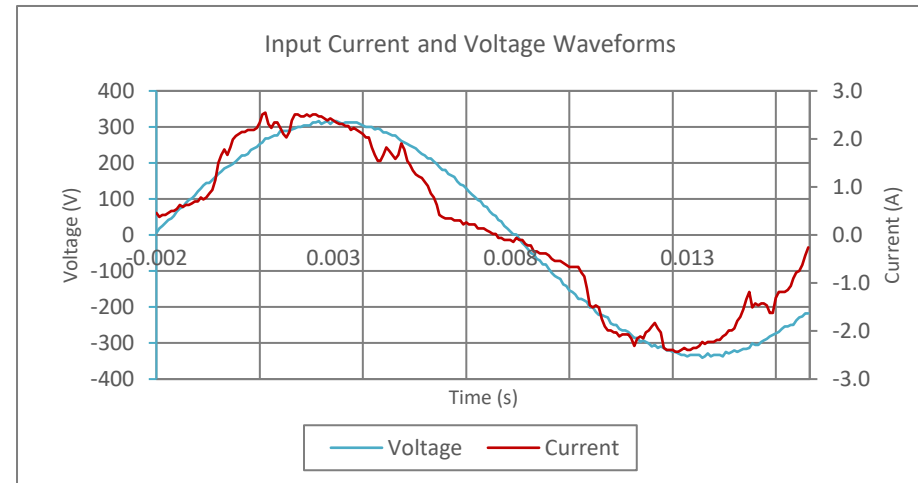


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	89.29%
AVERAGE EFFICIENCY :	88.04%
80 PLUS COMPLIANT:	YES



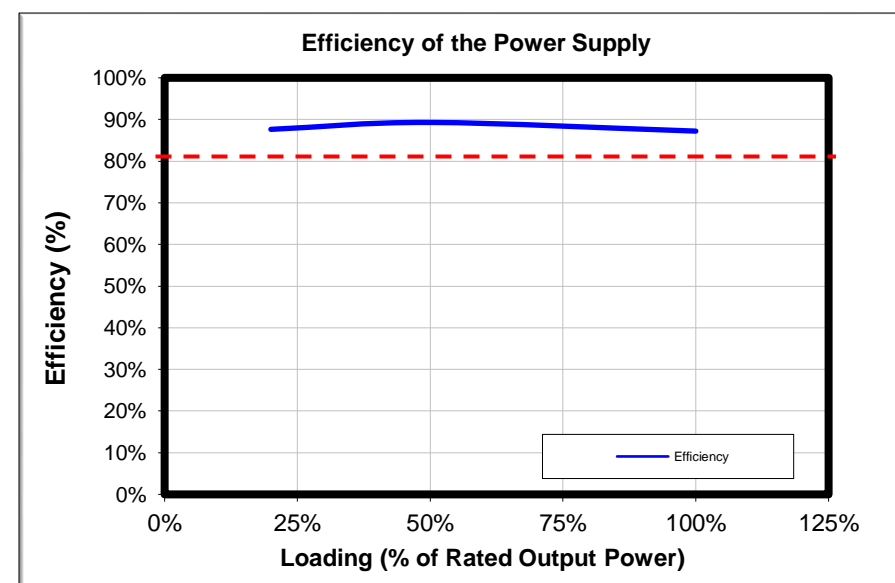
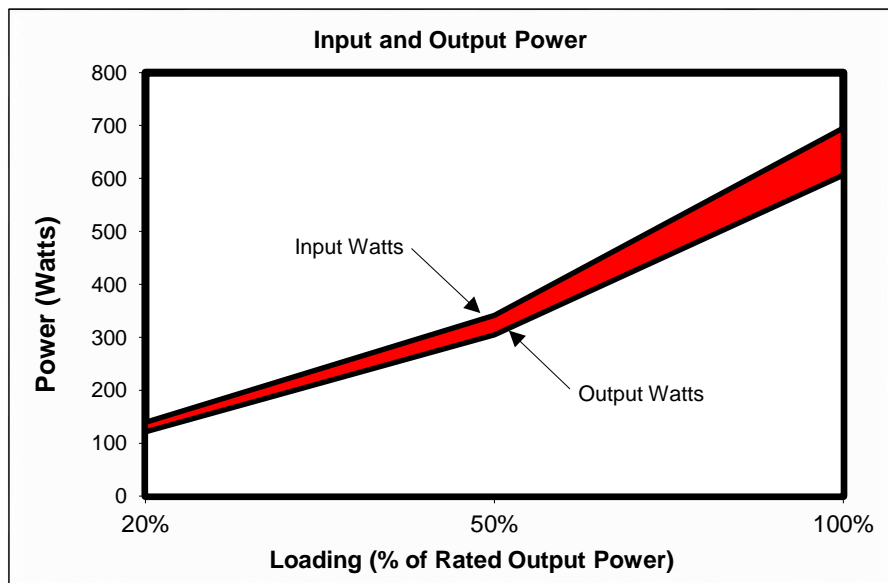
ID Number	EU-729
Manufacturer	HIPER
Model Number	HPB-600SM-PRO
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	9/25/20



Rated Specifications	Value	Units
Input Voltage	180-264	Volts
Input Current	6	Amps
Input Frequency	47/63	Hz
Rated Output Power	600	Watts

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

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		
0.38	0.83	41.08%	10%	73.17	12.09/4.04	12.02/0.02	3.4/1.24	5.21/1.24	5.13/0.21	60.86	83.17%
0.67	0.90	37.35%	20%	138.97	12.1/8.09	12.04/0.05	3.4/2.48	5.19/2.47	5.11/0.41	121.78	87.63%
1.54	0.96	20.24%	50%	341.10	12.1/20.28	12.1/0.12	3.39/6.2	5.15/6.15	5.09/1.03	304.56	89.29%
3.07	0.99	12.11%	100%	695.40	12.08/40.53	12.24/0.25	3.37/12.41	5.07/12.27	5.04/2.06	606.47	87.21%



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/>

