

80 PLUS Verification and Testing Report

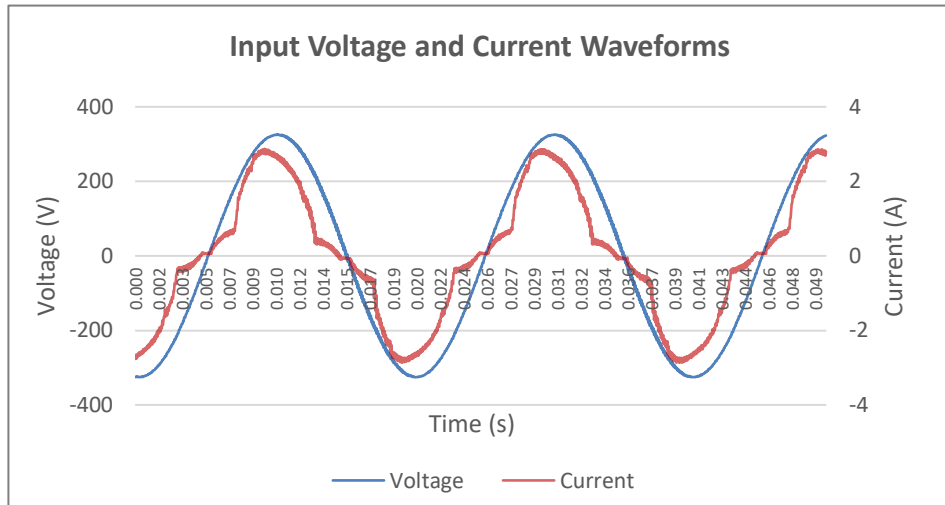
TYPICAL EFFICIENCY (50% Load):	87.48%
AVERAGE EFFICIENCY :	84.20%
80 PLUS COMPLIANT:	Standard



ID Number	EU-990
Manufacturer	SAMA
Model Number	GTX-650-5
Serial Number	N/A
Year	2023
Type	ATX12V
Test Date	11/2/23

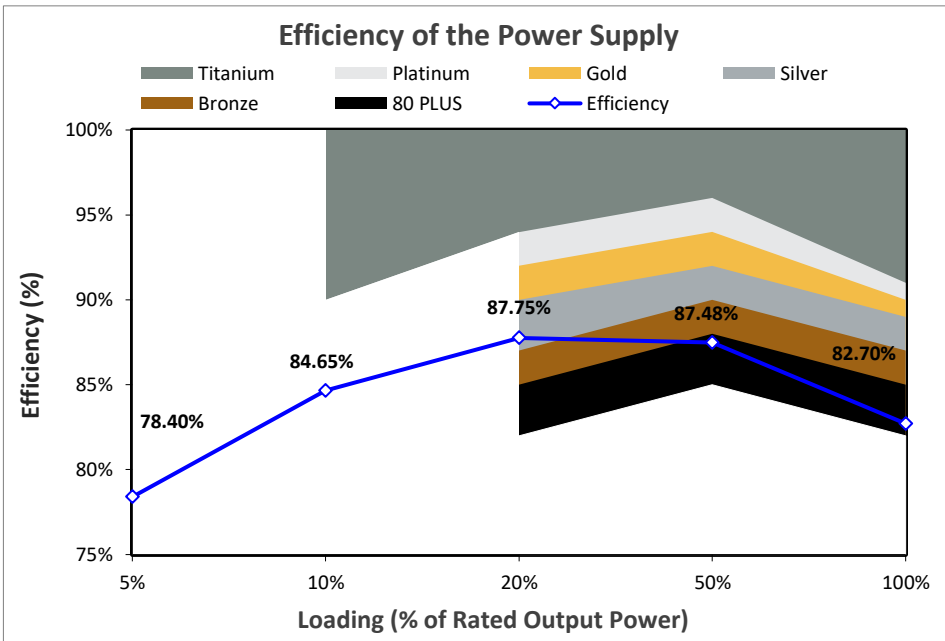
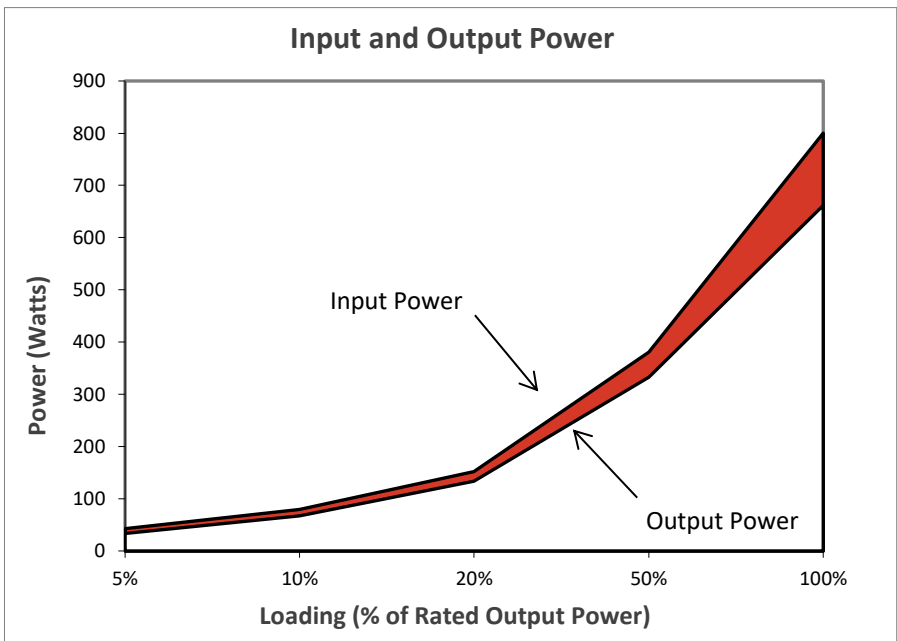
Rated Specifications	Value	Units
Input Voltage	230	Volts
Input Current	10-5	Amps
Input Frequency	60-50	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 24.38%, 50% Load)

I _{RMS} (A)	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	5Vstb		
0.087	0.1380	28.56	0%	2.88	No-Load						
0.285	0.6488	62.21	5%	42.57	12.32/2.24	11.5/0.015	3.41/0.59	5.14/0.59	5.15/0.122	33.37	78.40%
0.406	0.8457	37.85	10%	78.97	12.35/4.47	11.54/0.029	3.41/1.18	5.11/1.18	5.14/0.244	66.84	84.65%
0.722	0.9179	35.39	20%	152.41	12.37/8.95	11.6/0.059	3.4/2.35	5.07/2.35	5.12/0.488	133.74	87.75%
1.724	0.9604	24.38	50%	380.89	12.34/22.36	11.74/0.146	3.37/5.88	5.02/5.88	5.06/1.221	333.20	87.48%
3.543	0.9819	15.73	100%	800.11	12.28/44.72	11.91/0.293	3.32/11.76	4.92/11.76	4.97/2.441	661.71	82.70%



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/>