

80 PLUS Verification and Testing Report

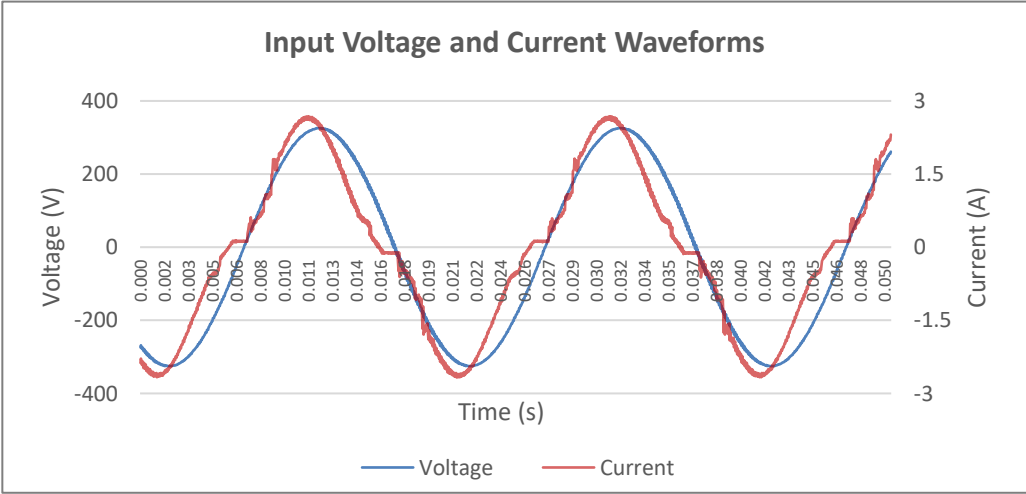
TYPICAL EFFICIENCY (50% Load):	91.37%
AVERAGE EFFICIENCY :	85.84%
80 PLUS COMPLIANT:	Silver



ID Number	EU-1026
Manufacturer	Gigabyte
Model Number	GP-P650SS
Serial Number	N/A
Type	ATX12V
Test Date	3/25/24

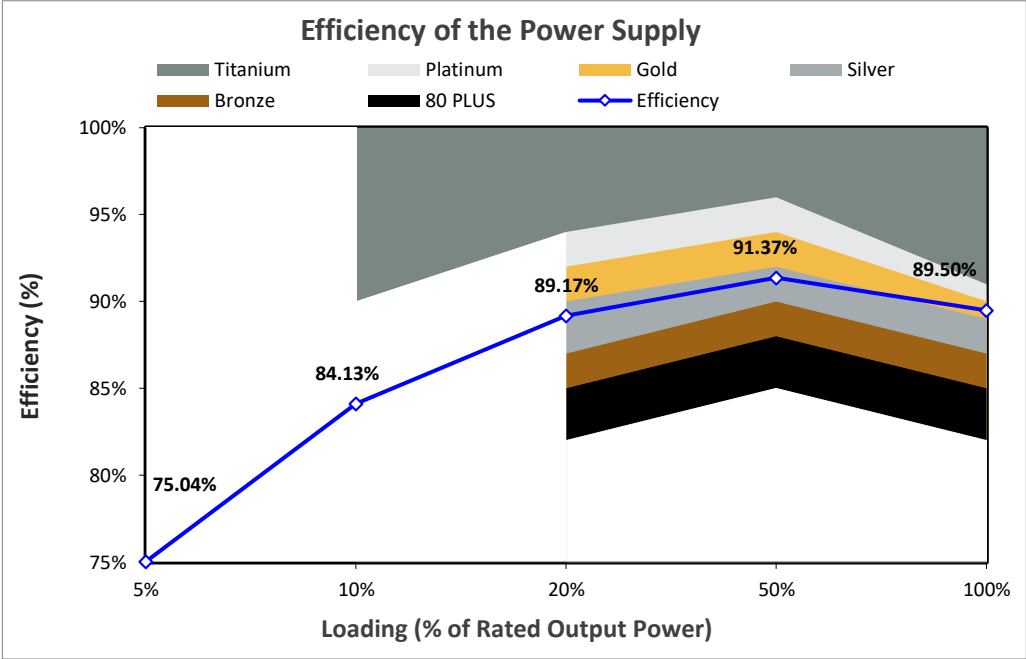
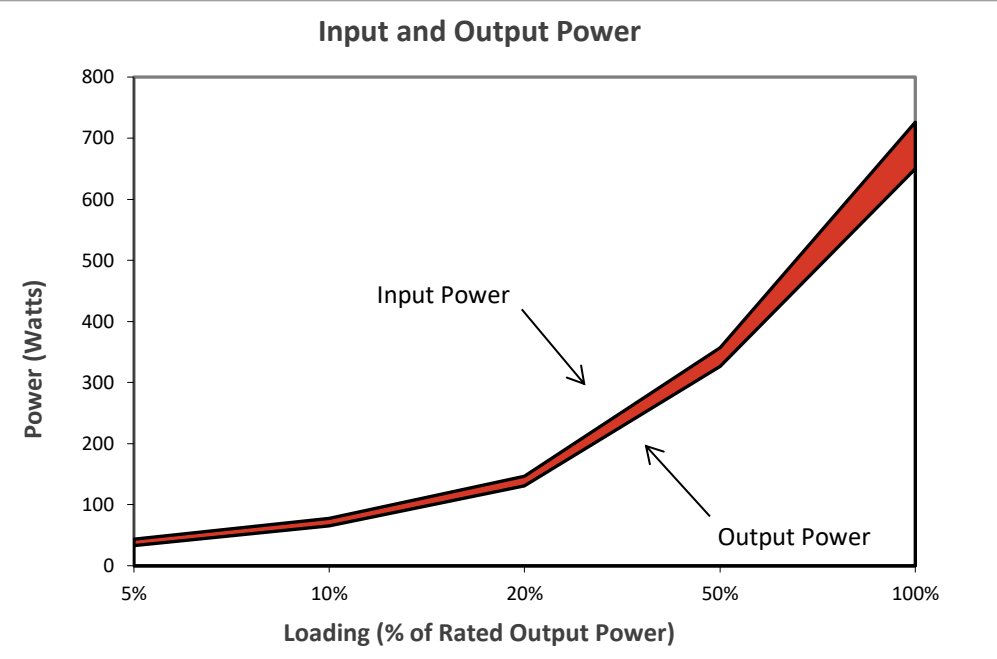
Rated Specifications	Value	Units
Input Voltage	155-240	Volts
Input Current	6.3	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 19.3%, 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		
0.123	0.3371	39.65	0%	9.51	No-Load						
0.269	0.7062	30.53	5%	43.63	12.07/2.29	11.89/0.013	3.38/0.51	5.04/0.51	5.1/0.127	32.74	75.04%
0.407	0.8315	24.50	10%	77.82	12.07/4.58	11.77/0.025	3.37/1.02	5.04/1.02	5.1/0.254	65.46	84.13%
0.701	0.9100	21.74	20%	146.67	12.06/9.16	11.73/0.051	3.37/2.04	5.03/2.04	5.08/0.508	130.78	89.17%
1.624	0.9557	19.30	50%	357.06	12.04/22.9	11.92/0.127	3.34/5.1	5/5.1	5.03/1.27	326.24	91.37%
3.241	0.9740	16.12	100%	726.06	12.01/45.81	12.34/0.254	3.3/10.2	4.95/10.2	4.95/2.539	649.83	89.50%



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/>