80 PLUS Verification and Testing Report


TYPICAL EFFICIENCY (50% Load):	91.33%
AVERAGE EFFICIENCY :	86.61%
80 PLUS COMPLIANT:	Gold

ID Number	7408
Manufacturer	Gigabyte
Model Number	GP-UD850GM-A
Serial Number	UD85000001
Type	ATX12V
Test Date	5/17/24

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.

Input Voltage and Current Waveforms
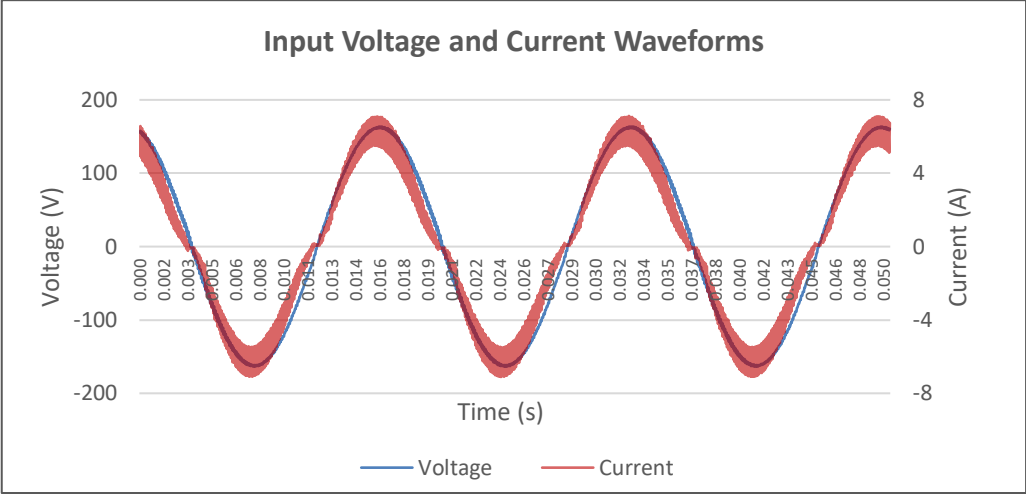
Input AC Current Waveform (ITHD = 9.55%, 50% Load)

$I_{RMS (A)}$	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		
0.195	0.4385	33.45	0%	9.81	No-Load						
0.553	0.8761	16.05	5%	55.68	12.18/3.11	12.03/0.013	3.34/0.53	5.04/0.53	5.1/0.132	43.12	77.45%
0.942	0.9327	9.19	10%	101.02	12.2/6.22	12.06/0.026	3.35/1.06	5.04/1.06	5.09/0.263	86.36	85.50%
1.735	0.9663	6.60	20%	192.82	12.23/12.43	12.11/0.053	3.35/2.12	5.04/2.12	5.08/0.527	173.15	89.80%
4.208	0.9869	9.55	50%	477.68	12.35/31.08	12.24/0.132	3.35/5.29	5.04/5.29	5.04/1.317	436.27	91.33%
8.703	0.9939	8.39	100%	994.57	12.54/62.16	12.48/0.263	3.36/10.58	5.04/10.58	4.98/2.632	884.77	88.96%

Input and Output Power

Efficiency of the Power Supply
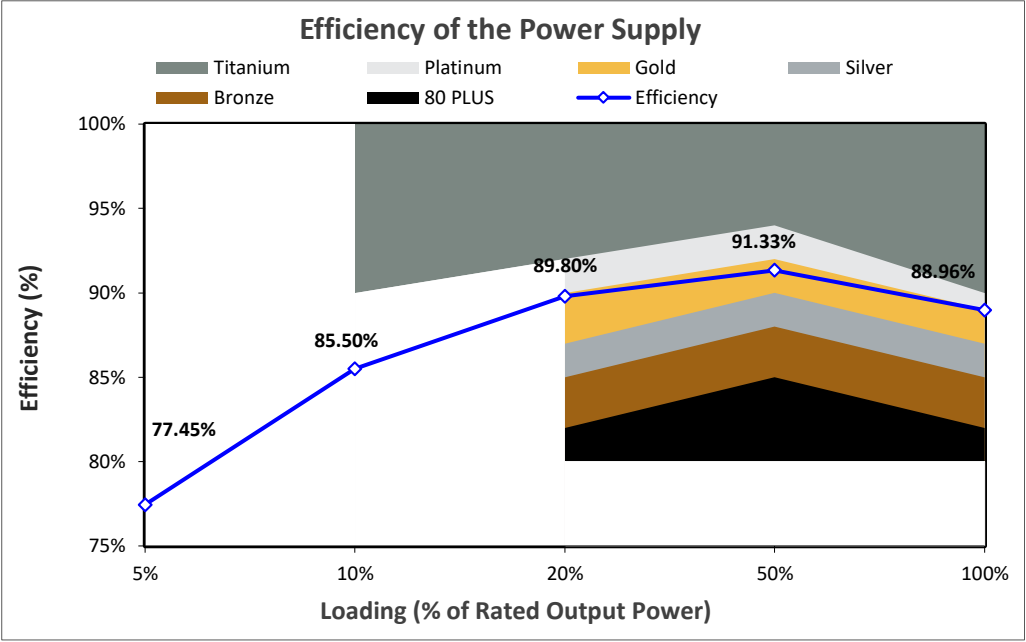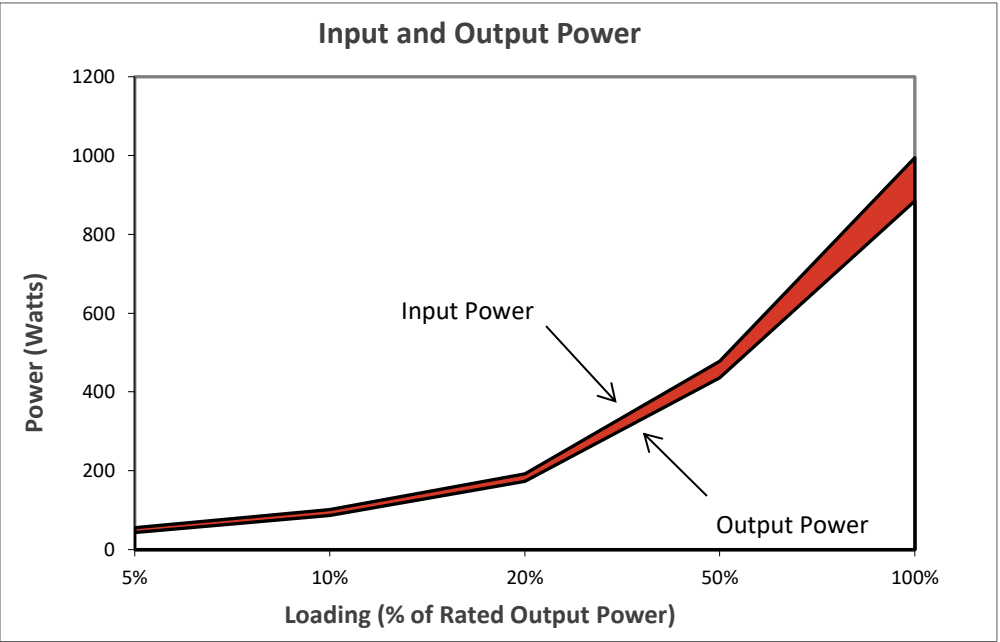
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. *http://www.80plus.org/*