80 PLUS Verification and Testing Report

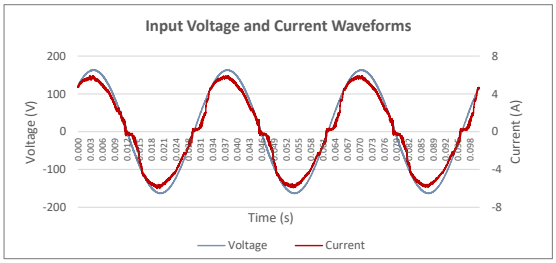


TYPICAL EFFICIENCY (50% Load):	92.73%
AVERAGE EFFICIENCY :	87.66%
AVERAGE STANDBY EFFICIENCY :	82.85%
80 PLUS COMPLIANT:	Platinum

ID Number	8157
Manufacturer	Gigabyte
Model Number	GP-EG850PM PG5
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	3/26/26

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	12.5	Amps
Input Frequency	60-50	Hz
Rated Output Power	850	Watts

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



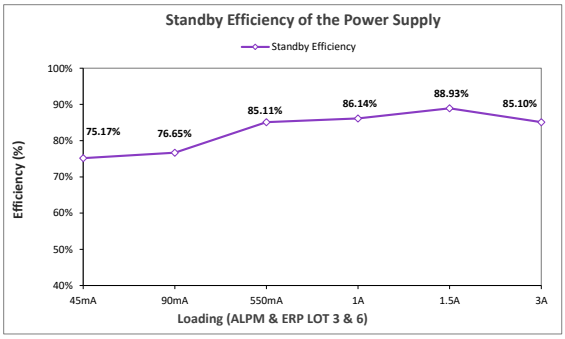
Input AC Current Waveform (ITHD = 10.4%, 50% Load)

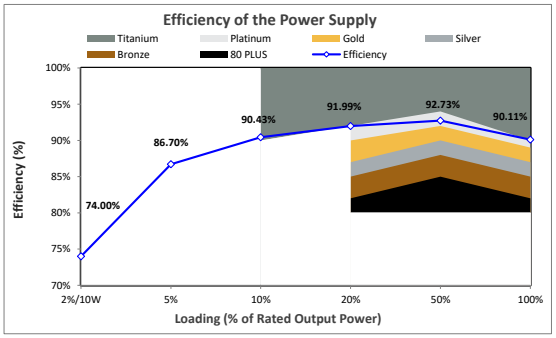
I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.139	0.1759	43.64	0%	2.82	No-Load						
0.402	**0.4982**	55.32	2%/10W	23.05	12.025/1.237	12.094/0.005	3.325/0.221	5.068/0.221	5.114/0.053	17.05	**74.00%**
0.460	**0.9296**	21.29	5%	49.18	12.025/3.093	12.085/0.013	3.326/0.552	5.068/0.552	5.113/0.131	42.65	**86.70%**
0.870	**0.9423**	14.72	10%	94.28	12.025/6.182	12.066/0.026	3.327/1.104	5.069/1.105	5.111/0.262	85.25	**90.43%**
1.631	**0.9889**	9.62	20%	185.42	12.026/12.365	12.078/0.052	3.328/2.209	5.069/2.209	5.107/0.524	170.56	**91.99%**
4.020	**0.9940**	10.40	50%	459.88	12.026/30.916	12.054/0.131	3.332/5.524	5.071/5.524	5.095/1.310	426.47	**92.73%**
8.274	**0.9953**	7.17	100%	947.03	12.031/61.829	11.998/0.262	3.340/11.048	5.076/11.047	5.074/2.620	853.33	**90.11%**

Note: Efficiency data was obtained from Sample 1 (Serial Number: N/A)

I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)	Output Watts	Standby Efficiency
					5VSB		
0.119	0.0039	4.81	0mA	0.05	Vampire Load		
0.266	**0.0100**	12.65	45mA	0.31	5.133/0.045	0.23	**75.17%**
0.104	**0.0500**	16.46	90mA	0.60	5.133/0.090	0.46	**76.65%**
0.124	**0.2312**	55.41	550mA	3.31	5.124/0.550	2.82	**85.11%**
0.155	**0.3317**	70.77	1A	5.94	5.116/1.000	5.12	**86.14%**
0.195	**0.3861**	78.08	1.5A	8.61	5.107/1.500	7.66	**88.93%**
0.340	**0.4576**	84.17	3A	17.91	5.078/3.002	15.24	**85.10%**

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: N/A)





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.
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