

80 PLUS Verification and Testing Report

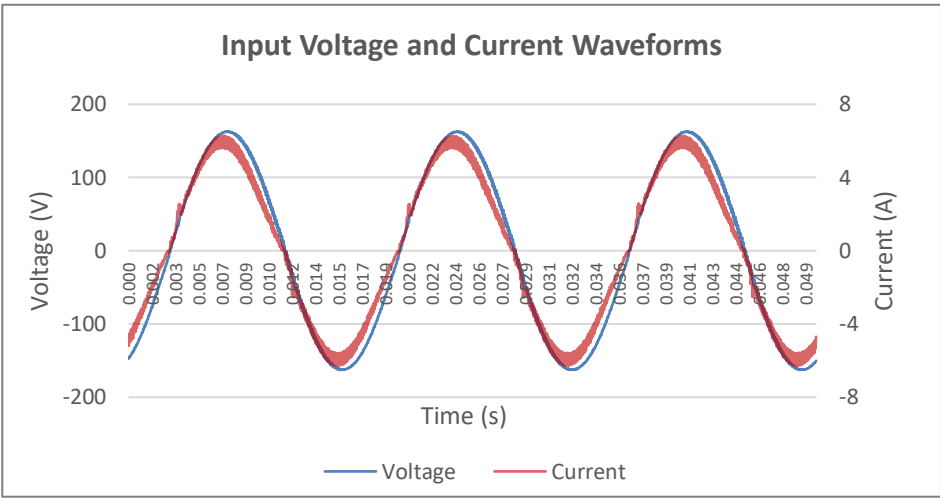
TYPICAL EFFICIENCY (50% Load):	92.44%
AVERAGE EFFICIENCY :	88.80%
80 PLUS COMPLIANT:	Platinum



ID Number	7248
Manufacturer	Thermaltake
Model Number	TPD-850AH2FLG TOUGHPOWER GF1 850W
Serial Number	N/A
Year	2023
Type	ATX12V
Test Date	12/8/23

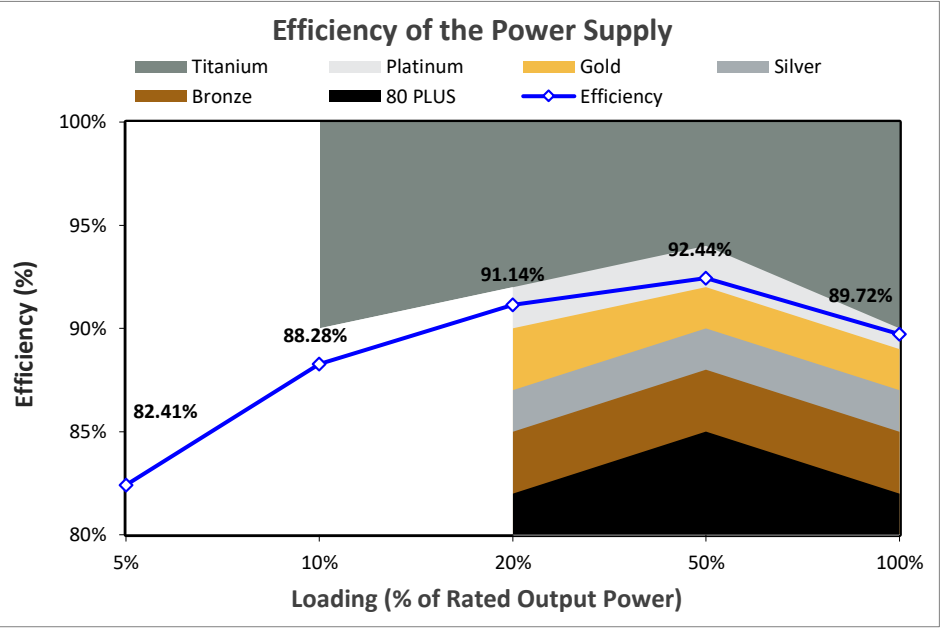
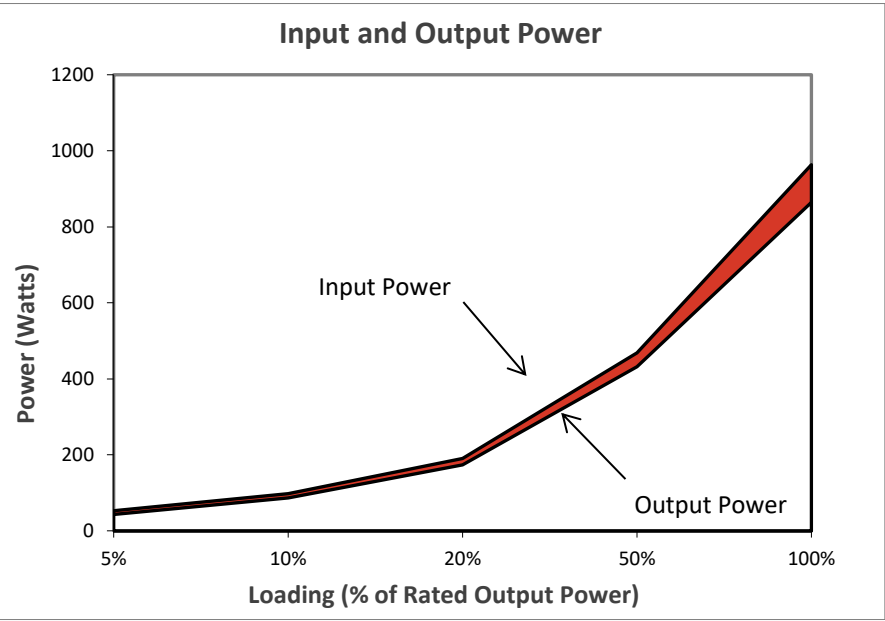
Rated Specifications		Value	Units
Input Voltage		100-240	Volts
Input Current		15-8	Amps
Input Frequency		50/60	Hz
Rated Output Power		850	Watts

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



Input AC Current Waveform (ITHD = 4.63%, 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		
0.168	0.5189	28.36	0%	10.05	No-Load						
0.500	0.9142	14.14	5%	52.54	12.22/3.11	12.18/0.013	3.36/0.53	5.11/0.53	5.1/0.132	43.30	82.41%
0.887	0.9620	10.15	10%	98.12	12.22/6.22	12.19/0.026	3.36/1.06	5.11/1.06	5.1/0.263	86.62	88.28%
1.694	0.9748	9.48	20%	189.95	12.22/12.43	12.19/0.053	3.36/2.12	5.1/2.12	5.08/0.527	173.12	91.14%
4.095	0.9929	4.63	50%	467.66	12.21/31.08	12.2/0.132	3.35/5.29	5.08/5.29	5.02/1.317	432.30	92.44%
8.403	0.9967	4.27	100%	963.24	12.22/62.16	12.21/0.263	3.33/10.58	5.05/10.58	4.94/2.633	864.23	89.72%



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/>