

80 PLUS Verification and Testing Report

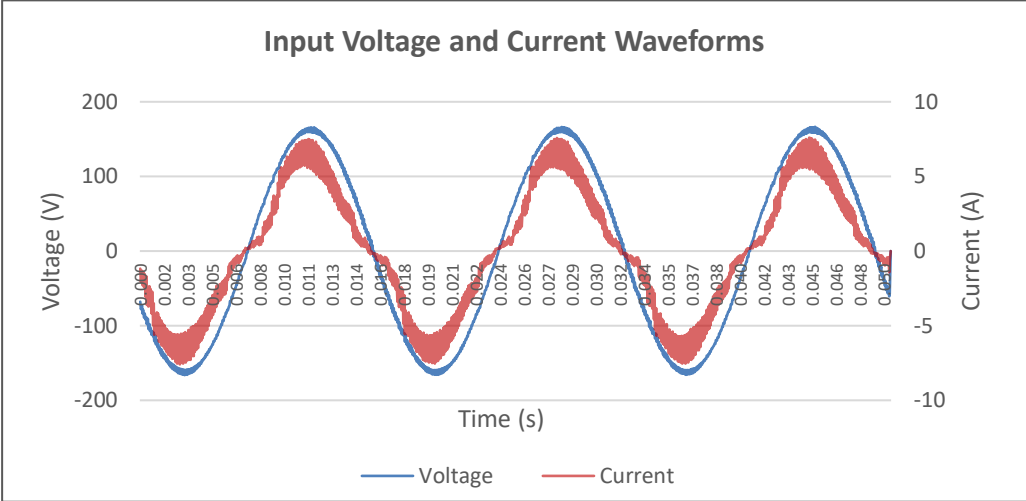
TYPICAL EFFICIENCY (50% Load):	91.61%
AVERAGE EFFICIENCY :	88.36%
80 PLUS COMPLIANT:	Gold



ID Number	7436.2
Manufacturer	Fractal Design
Model Number	FD-P-IA3G-850 (Ion 3 Gold 850W)
Serial Number	N/A
Type	ATX12V
Test Date	6/6/24

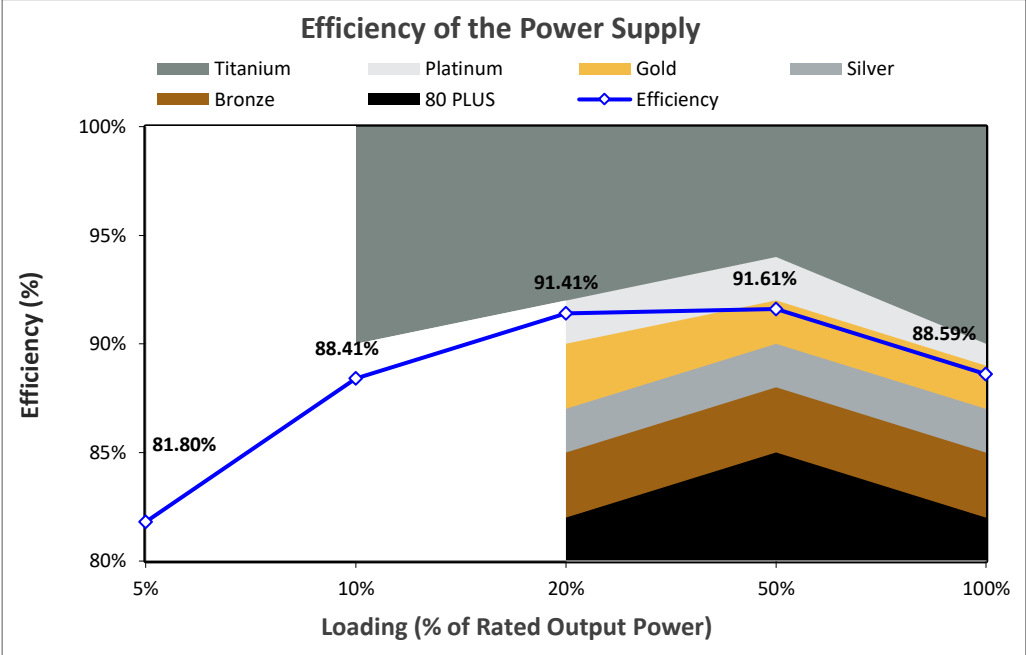
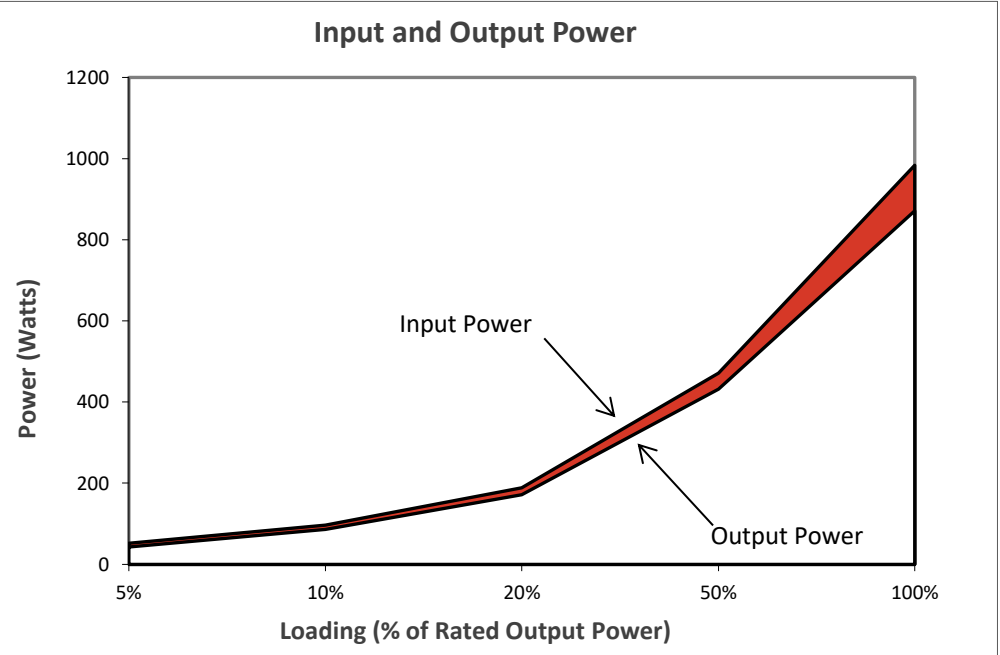
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	11-5.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



Input AC Current Waveform (ITHD = 17.25%, 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		
0.103	0.2737	18.57	0%	3.25	No-Load						
0.499	0.9144	25.10	5%	52.51	12.13/3.1	11.89/0.013	3.34/0.53	5.03/0.53	5.1/0.133	42.96	81.80%
0.895	0.9445	21.51	10%	97.20	12.13/6.21	11.91/0.027	3.34/1.07	5.03/1.07	5.09/0.266	85.93	88.41%
1.694	0.9657	17.46	20%	188.17	12.14/12.42	11.96/0.053	3.34/2.14	5.03/2.14	5.07/0.532	172.01	91.41%
4.189	0.9788	17.25	50%	471.75	12.22/31.04	12.08/0.133	3.33/5.34	5.03/5.34	5.03/1.33	432.15	91.61%
8.637	0.9901	11.86	100%	983.55	12.33/62.08	12.3/0.266	3.34/10.68	5.04/10.68	4.94/2.659	871.34	88.59%



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/>