

80 PLUS Verification and Testing Report

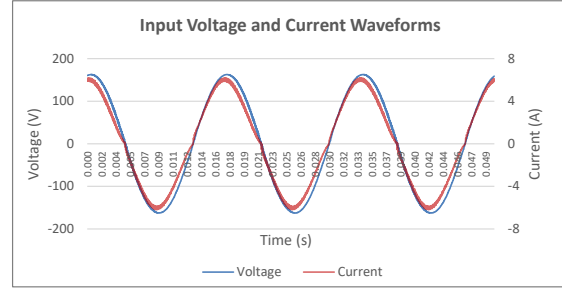
TYPICAL EFFICIENCY (50% Load):	91.27%
AVERAGE EFFICIENCY :	85.96%
80 PLUS COMPLIANT:	Gold



ID Number	7151
Manufacturer	SAMA
Model Number	BRK-850A
Serial Number	N/A
Year	2023
Type	ATX12V, EPS12V
Test Date	9/13/23

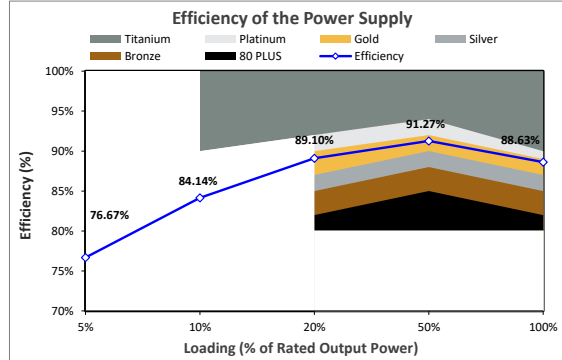
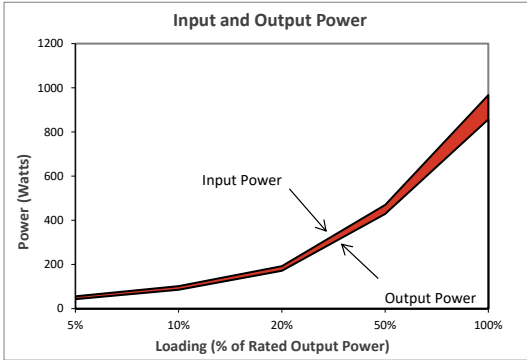
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



Input AC Current Waveform (ITHD = 4.49%, 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.)						
0.152	0.6054	24.36	0%	10.59	No-Load						
0.517	0.9396	16.87	5%	55.86	12.08/3.1	12.57/0.018	3.32/0.53	5.04/0.53	5.11/0.132	42.83	76.67%
0.911	0.9713	7.65	10%	101.81	12.08/6.21	12.51/0.035	3.32/1.06	5.04/1.06	5.1/0.263	85.67	84.14%
1.696	0.9871	3.52	20%	192.29	12.09/12.42	12.42/0.07	3.31/2.11	5.04/2.11	5.1/0.526	171.32	89.10%
4.100	0.9951	4.49	50%	469.37	12.1/31.04	12.15/0.175	3.31/5.28	5.02/5.28	5.07/1.315	428.39	91.27%
8.444	0.9962	6.22	100%	966.97	12.12/62.08	11.65/0.351	3.29/10.57	5/10.56	5.03/2.629	857.00	88.63%



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/>