

80 PLUS Verification and Testing Report

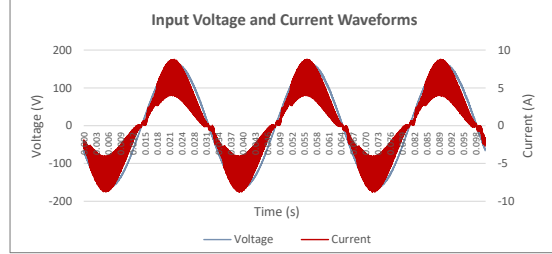
TYPICAL EFFICIENCY (50% Load):	92.64%
AVERAGE EFFICIENCY :	87.12%
AVERAGE STANDBY EFFICIENCY :	74.96%
80 PLUS COMPLIANT:	Platinum



ID Number	7846
Manufacturer	SAMA
Model Number	HAT-850v2B2
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V, EPS12V
Test Date	5/28/25

Rated	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.

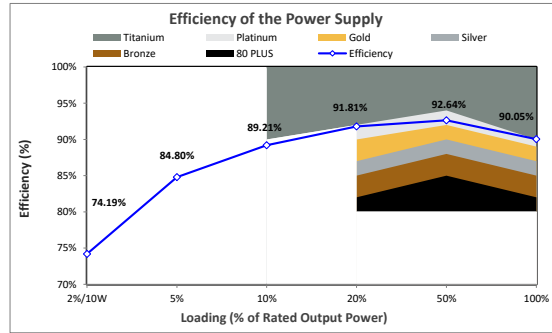
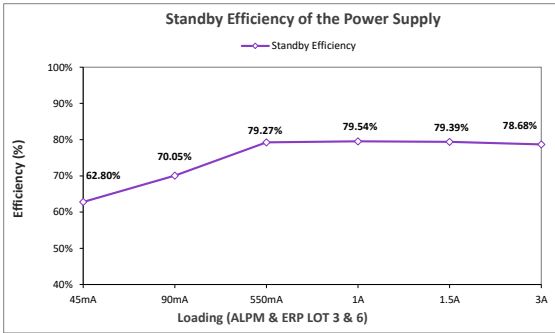


I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)						
0.142	0.2839	38.03	0%	4.71	No-Load						
0.286	0.7035	43.19	2%/10W	23.13	12.091/1.243	12.593/0.007	3.370/0.211	5.099/0.211	5.105/0.053	17.16	74.19%
0.521	0.8453	33.20	5%	50.59	12.092/3.106	12.582/0.018	3.369/0.528	5.097/0.528	5.104/0.132	42.90	84.80%
0.901	0.9295	22.37	10%	96.18	12.096/6.208	12.561/0.035	3.368/1.057	5.097/1.056	5.102/0.263	85.80	89.21%
1.677	0.9689	13.13	20%	186.84	12.092/12.416	12.487/0.070	3.362/2.113	5.092/2.113	5.094/0.526	171.53	91.81%
4.063	0.9896	9.50	50%	462.24	12.080/31.038	12.285/0.175	3.345/5.282	5.075/5.282	5.069/1.315	428.21	92.64%
8.334	0.9908	11.01	100%	949.57	12.073/62.074	12.016/0.351	3.314/10.564	5.044/10.563	5.025/2.630	855.06	90.05%

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						
0.099	0.0061	19.33	0mA	0.07	Vampire Load						
0.119	0.0267	55.94	45mA	0.37	5.112/0.045					0.23	62.80%
0.150	0.0380	68.01	90mA	0.66	5.112/0.090					0.46	70.05%
0.180	0.1714	77.20	550mA	3.54	5.109/0.550					2.81	79.27%
0.227	0.2459	82.77	1A	6.42	5.105/1.000					5.10	79.54%
0.281	0.2986	88.69	1.5A	9.63	5.100/1.500					7.65	79.39%
0.541	0.3120	93.00	3A	19.40	5.087/3.002					15.27	78.68%

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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