

80 PLUS Verification and Testing Report

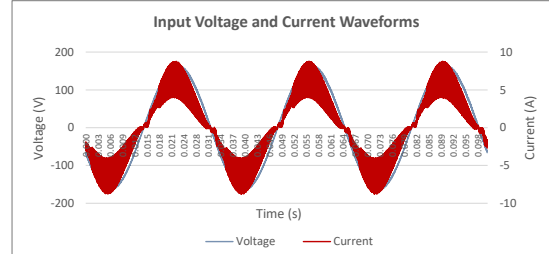
TYPICAL EFFICIENCY (50% Load):	90.81%
AVERAGE EFFICIENCY :	84.05%
AVERAGE STANDBY EFFICIENCY :	59.50%
80 PLUS COMPLIANT:	Gold



ID Number	7844
Manufacturer	MARS GAMING
Model Number	MPB850PSI
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V
Test Date	5/28/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	47-63	Hz
Rated Output Power	850	Watts

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



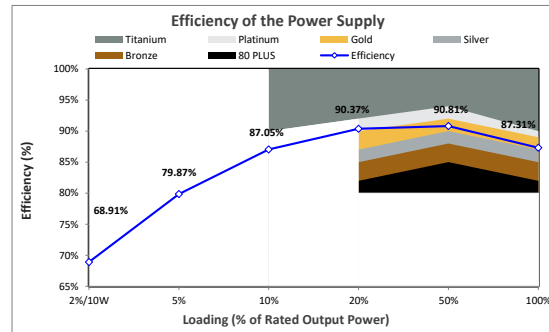
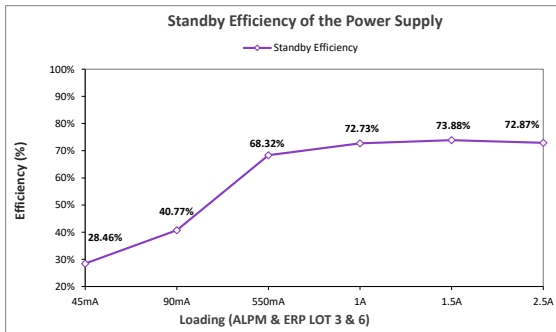
Input AC Current Waveform (THD = 11.02%, 50% Load)

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.)						
0.134	0.2177	73.56	0%	3.35	No-Load						
0.393	0.5582	31.48	2%/10W	25.26	12.284/1.222	11.716/0.005	3.369/0.250	5.155/0.250	5.111/0.043	17.41	68.91%
0.708	0.6683	16.06	5%	54.41	12.267/3.053	11.714/0.013	3.367/0.626	5.148/0.626	5.105/0.108	43.46	79.87%
1.119	0.7743	8.55	10%	99.67	12.249/6.103	11.714/0.026	3.361/1.252	5.135/1.251	5.095/0.216	86.76	87.05%
1.874	0.8883	13.77	20%	191.44	12.217/12.204	11.717/0.052	3.346/2.503	5.111/2.502	5.075/0.433	173.01	90.37%
4.288	0.9575	11.02	50%	472.42	12.127/30.510	11.724/0.130	3.309/6.257	5.040/6.257	5.010/1.082	428.99	90.81%
8.771	0.9587	8.74	100%	967.55	11.963/61.015	11.747/0.260	3.243/12.512	4.908/12.511	4.885/2.163	844.77	87.31%

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						
0.048	0.0923	39.54	0mA	0.51	Vampire Load						
0.090	0.0779	54.31	45mA	0.81	5.115/0.045					0.23	28.46%
0.152	0.0644	62.97	90mA	1.13	5.113/0.090					0.46	40.77%
0.249	0.1432	87.74	550mA	4.10	5.094/0.550					2.80	68.32%
0.305	0.1989	89.54	1A	6.98	5.076/1.000					5.07	72.73%
0.441	0.2023	89.89	1.5A	10.26	5.055/1.500					7.58	73.88%
0.971	0.1540	90.01	2.5A	17.21	5.012/2.502					12.54	72.87%

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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