

80 PLUS Verification and Testing Report

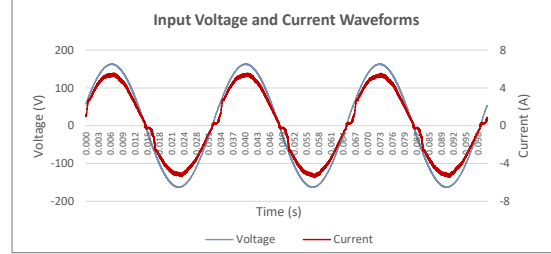
TYPICAL EFFICIENCY (50% Load):	87.89%
AVERAGE EFFICIENCY :	81.40%
AVERAGE STANDBY EFFICIENCY :	73.44%
80 PLUS COMPLIANT:	Bronze



ID Number	7889
Manufacturer	Micro-Star International Co., Ltd.
Model Number	MS-7ZPTX
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	7/3/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	750	Watts

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



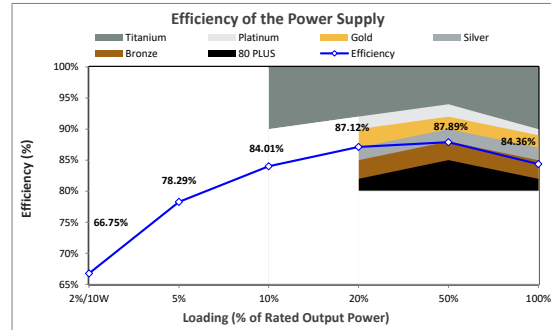
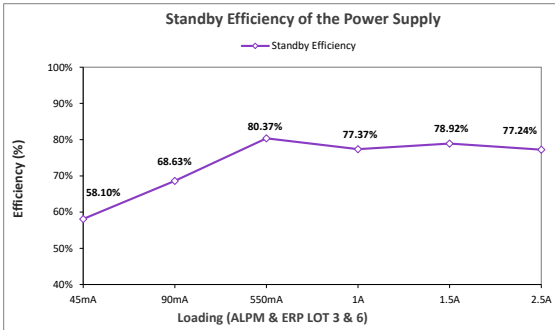
Input AC Current Waveform (THD = 6.96%, 50% Load)

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.)	3.3V	5V	5VSB		
0.101	0.3748	67.64	0%	4.34	No-Load					
0.295	0.6626	63.98	2%/10W	22.45	11.954/1.088	3.341/0.209	5.106/0.209	5.077/0.044	14.99	66.75%
0.436	0.9533	15.01	5%	47.85	11.954/2.719	3.339/0.524	5.104/0.524	5.074/0.109	37.46	78.29%
0.797	0.9732	10.58	10%	89.17	11.955/5.436	3.337/1.045	5.102/1.046	5.070/0.218	74.91	84.01%
1.522	0.9818	8.27	20%	171.91	11.954/10.871	3.331/2.093	5.096/2.093	5.061/0.435	149.77	87.12%
3.711	0.9970	6.96	50%	425.66	11.951/27.176	3.311/5.236	5.077/5.236	5.031/1.087	374.09	87.89%
7.718	0.9974	4.28	100%	885.22	11.942/54.348	3.275/10.474	5.049/10.475	4.985/2.173	746.79	84.36%

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	Vampire Load				
0.043	0.0187	6.83	0mA	0.09						
0.047	0.0735	23.49	45mA	0.39		5.094/0.045			0.23	58.10%
0.048	0.1201	33.31	90mA	0.67		5.092/0.090			0.46	68.63%
0.085	0.3573	76.79	550mA	3.48		5.080/0.550			2.79	80.37%
0.128	0.4464	82.81	1A	6.55		5.067/1.000			5.07	77.37%
0.175	0.4781	84.43	1.5A	9.60		5.052/1.500			7.58	78.92%
0.274	0.5130	84.30	2.5A	16.27		5.022/2.503			12.57	77.24%

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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