80 PLUS Verification and Testing Report

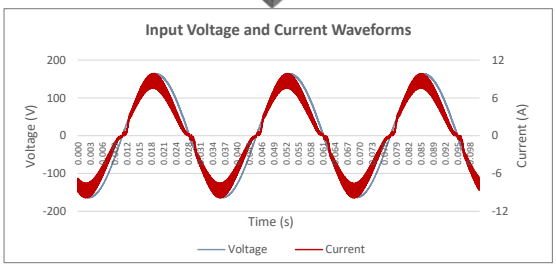
TYPICAL EFFICIENCY (50% Load):	92.60%
AVERAGE EFFICIENCY :	86.87%
AVERAGE STANDBY EFFICIENCY :	77.31%
80 PLUS COMPLIANT:	Platinum



ID Number	8096
Manufacturer	Micro-Star International Co., Ltd.
Model Number	MS-7ZPWA
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	1/29/26

Rated	Value	Units
Input Voltage	100-240/200-240	Volts
Input Current	15-7.5/7.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	1200	Watts

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



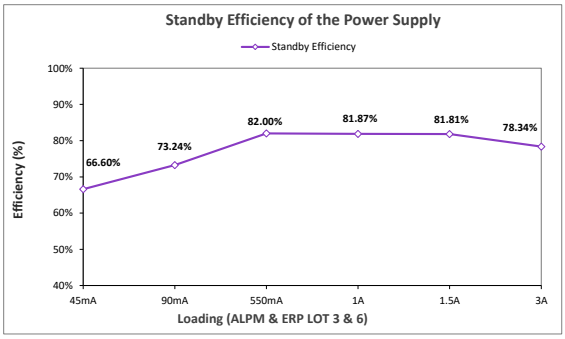
Input AC Current Waveform (ITHD = 10.42%, 50% Load)

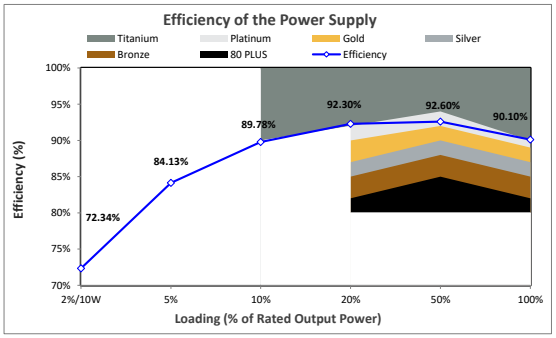
I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.128	0.5514	19.10	0%	8.15	No-Load						
0.341	**0.8554**	21.44	2%/10W	33.51	12.108/1.822	12.187/0.006	3.357/0.219	5.096/0.219	5.093/0.055	24.24	72.34%
0.686	**0.9115**	13.72	5%	72.00	12.109/4.551	12.187/0.014	3.358/0.548	5.096/0.548	5.093/0.137	60.58	84.13%
1.248	**0.9403**	16.85	10%	134.97	12.110/9.100	12.189/0.027	3.361/1.096	5.097/1.096	5.092/0.273	121.17	89.78%
2.369	**0.9642**	16.83	20%	262.62	12.110/18.201	12.193/0.055	3.361/2.192	5.097/2.193	5.088/0.546	242.39	92.30%
5.776	**0.9853**	10.42	50%	654.43	12.110/45.501	12.204/0.137	3.362/5.482	5.098/5.482	5.079/1.365	605.98	92.60%
11.795	**0.9925**	6.44	100%	1346.06	12.121/90.999	12.216/0.273	3.363/10.964	5.098/10.965	5.061/2.730	1212.83	90.10%

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		
0.090	0.0049	15.39	0mA	0.05	Vampire Load		
0.098	**0.0294**	19.04	45mA	0.33	4.917/0.045	0.22	66.60%
0.143	**0.0366**	25.91	90mA	0.60	4.915/0.090	0.44	73.24%
0.194	**0.1473**	63.97	550mA	3.29	4.900/0.550	2.70	82.00%
0.231	**0.2240**	73.77	1A	5.97	4.884/1.000	4.88	81.87%
0.297	**0.2614**	76.95	1.5A	8.92	4.867/1.500	7.30	81.81%
0.531	**0.3015**	78.87	3A	18.45	4.816/3.002	14.46	78.34%

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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