

80 PLUS Verification and Testing Report

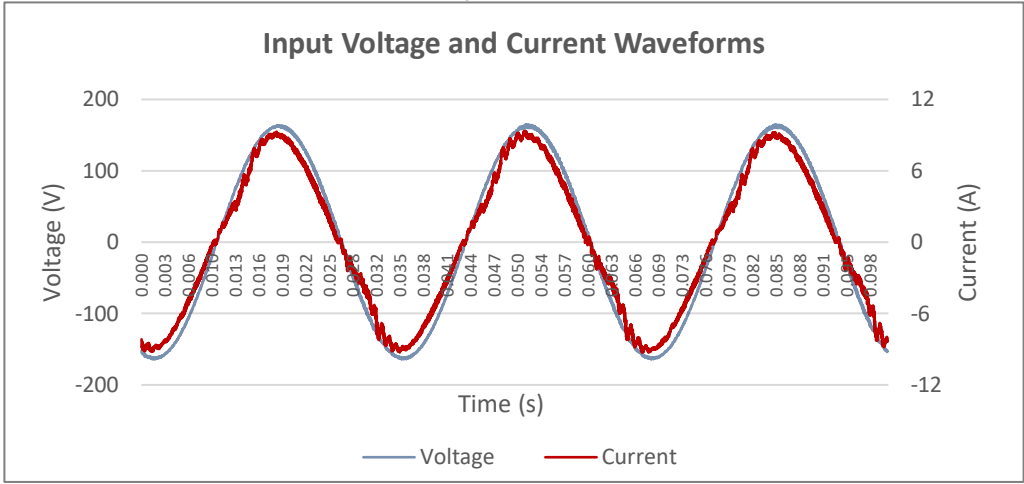
TYPICAL EFFICIENCY (50% Load):	94.59%
AVERAGE EFFICIENCY :	88.15%
AVERAGE STANDBY EFFICIENCY :	81.25%
80 PLUS COMPLIANT:	Titanium



ID Number	8074
Manufacturer	Micro-Star International Co., Ltd.
Model Number	MS-7ZPUB
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	1/6/26

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	15-10	Amps
Input Frequency	50-60	Hz
Rated Output Power	1300	Watts

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



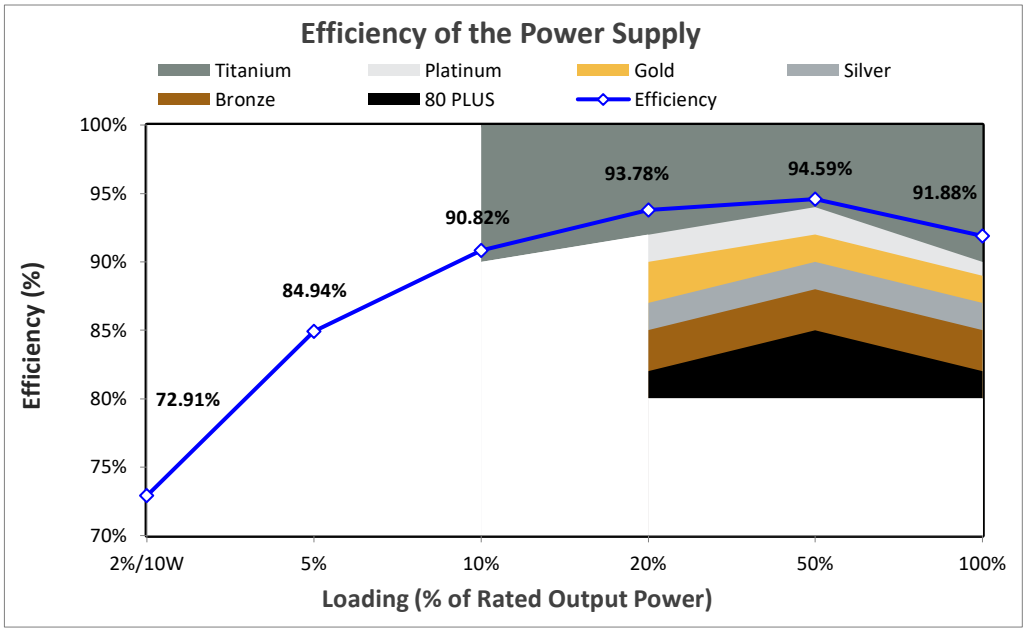
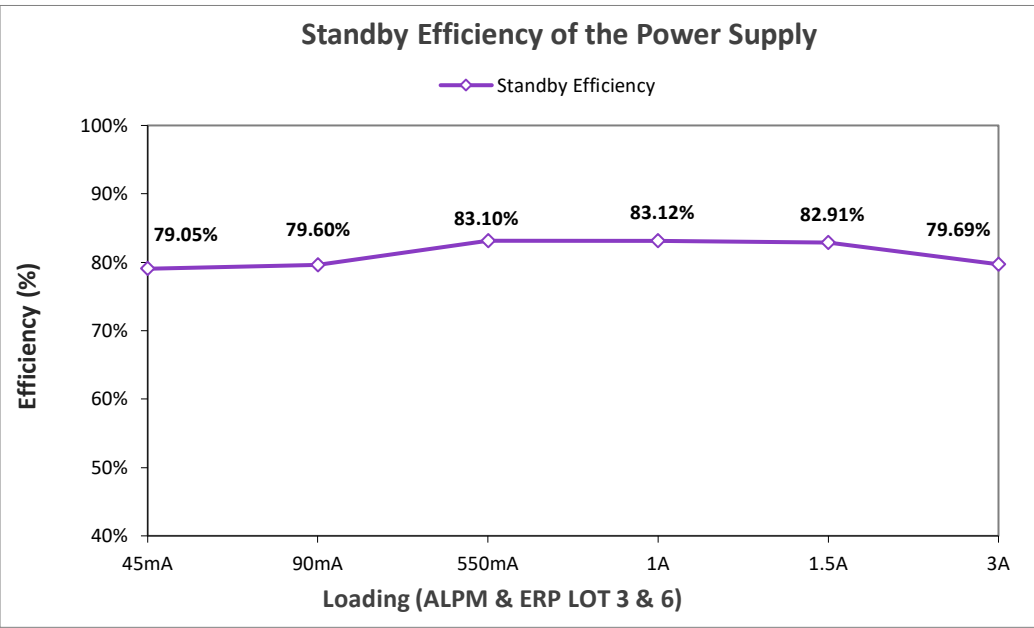
Input AC Current Waveform (ITHD = 7.88%, 50% Load)

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		
0.119	0.3380	38.41	0%	4.61	No-Load					
0.355	0.8794	21.48	2%/10W	35.92	12.085/1.963	3.337/0.262	5.054/0.262	5.002/0.054	26.19	72.91%
0.693	0.9675	19.00	5%	77.09	12.085/4.907	3.337/0.655	5.054/0.655	5.003/0.136	65.48	84.94%
1.274	0.9835	17.18	10%	144.10	12.083/9.809	3.336/1.309	5.054/1.310	5.003/0.272	130.87	90.82%
2.453	0.9887	14.38	20%	279.07	12.079/19.623	3.335/2.619	5.053/2.620	5.004/0.544	261.72	93.78%
6.029	0.9962	7.88	50%	690.87	12.061/49.065	3.328/6.549	5.046/6.550	5.005/1.359	653.47	94.59%
12.394	0.9963	6.22	100%	1420.10	12.040/98.126	3.326/13.097	5.043/13.097	4.997/2.717	1304.78	91.88%

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		
0.141	0.0027	3.76	0mA	0.04		5.030/0.045	0.23	79.05%
0.149	0.0195	7.82	45mA	0.29		5.031/0.090	0.45	79.60%
0.139	0.0331	12.75	90mA	0.57		5.037/0.550	2.77	83.10%
0.151	0.1929	38.09	550mA	3.33		5.043/1.000	5.04	83.12%
0.177	0.2987	53.67	1A	6.07		5.050/1.500	7.58	82.91%
0.211	0.3687	63.89	1.5A	9.14		5.069/3.002	15.21	79.69%
0.320	0.4997	75.65	3A	19.09				

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. <https://www.clearesult.com/80plus/> [\[clearesult.com\]](https://www.clearesult.com/)