

80 PLUS Verification and Testing Report

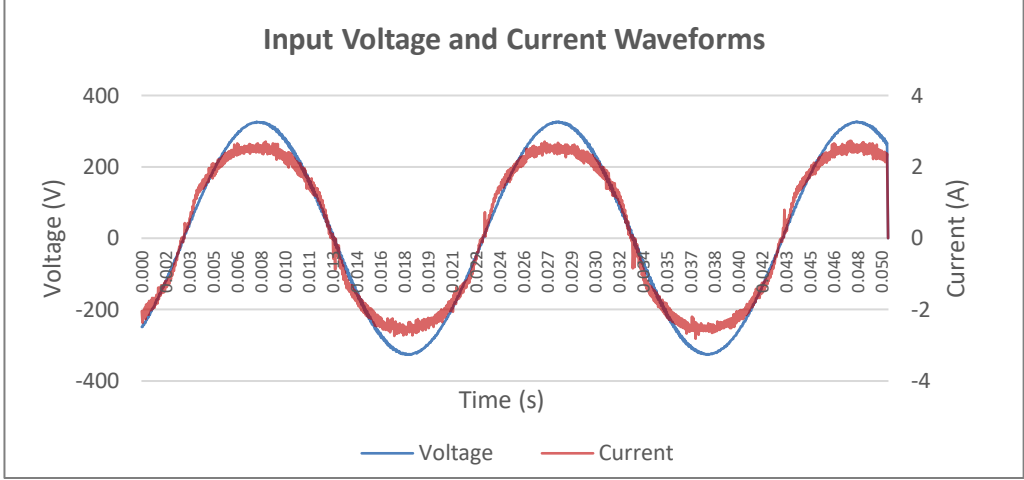
TYPICAL EFFICIENCY (50% Load):	96.28%
AVERAGE EFFICIENCY :	90.55%
AVERAGE STANDBY EFFICIENCY :	72.59%
80 PLUS COMPLIANT:	Titanium



ID Number	EU-1193
Manufacturer	FSP Technology Inc.
Model Number	FSP850-50AFB
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V, ATX 3.0, ATX 3.1
Test Date	4/2/25

Rated	Value	Units
Input Voltage	200-240	Volts
Input Current	6	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



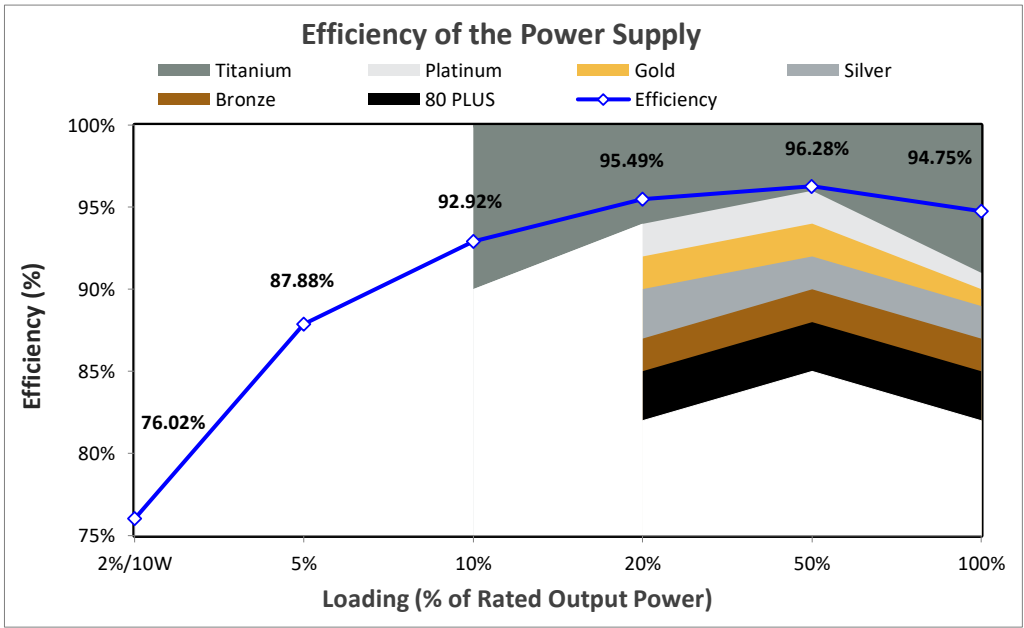
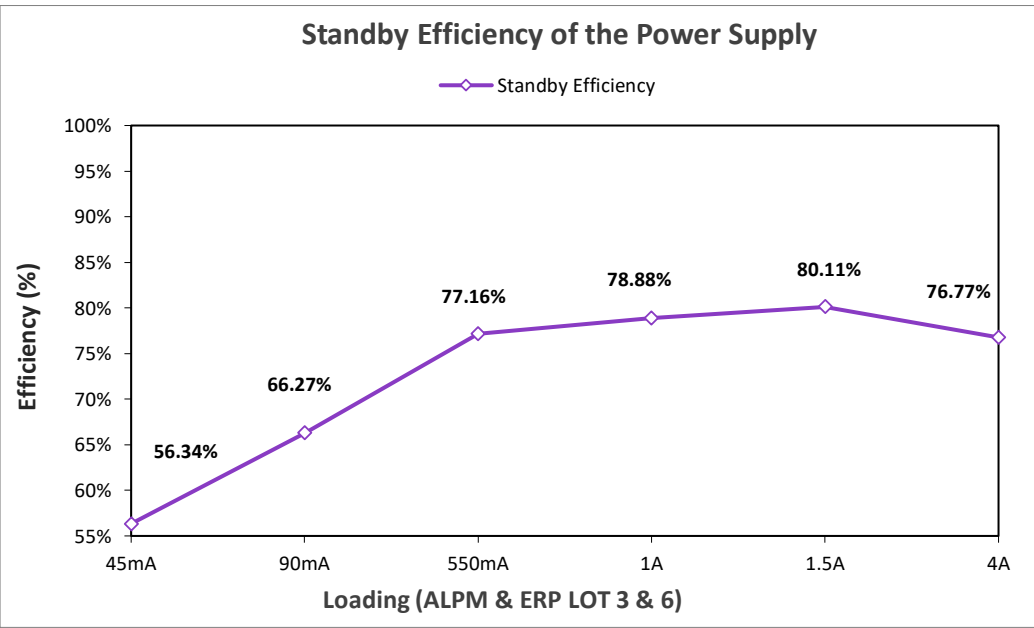
Input AC Current Waveform (ITHD = 11.3%, 50% Load)

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		
0.076	0.2744	35.06	0%	4.77	No-Load					
0.188	0.5278	29.49	2%/10W	22.78	12.225/1.218	3.367/0.248	5.081/0.248	5.080/0.069	17.32	76.02%
0.255	0.8390	27.12	5%	49.27	12.226/3.042	3.367/0.621	5.081/0.620	5.077/0.172	43.30	87.88%
0.429	0.9442	23.51	10%	93.20	12.230/6.084	3.366/1.239	5.081/1.239	5.071/0.344	86.60	92.92%
0.812	0.9711	18.77	20%	181.46	12.237/12.165	3.364/2.480	5.079/2.480	5.058/0.687	173.27	95.49%
1.972	0.9923	11.30	50%	450.11	12.244/30.412	3.359/6.205	5.076/6.206	5.023/1.718	433.35	96.28%
3.970	0.9980	4.96	100%	911.52	12.208/60.819	3.339/12.410	5.053/12.411	4.949/3.434	863.68	94.75%

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			
0.022	0.0226	8.66	0mA	0.11	Vampire Load			
0.035	0.0502	33.73	45mA	0.40	5.049/0.045		0.23	56.34%
0.032	0.0939	49.95	90mA	0.69	5.047/0.090		0.45	66.27%
0.052	0.2997	89.24	550mA	3.59	5.030/0.550		2.77	77.16%
0.080	0.3470	91.15	1A	6.36	5.013/1.000		5.01	78.88%
0.107	0.3787	91.44	1.5A	9.36	4.998/1.500		7.50	80.11%
0.254	0.4362	89.78	4A	25.58	4.906/4.003		19.64	76.77%

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/)