

80 PLUS Verification and Testing Report

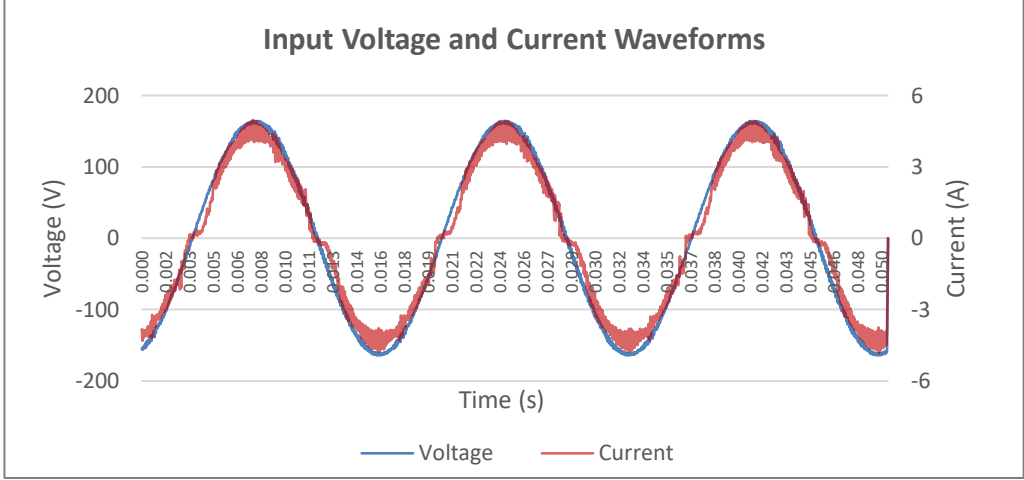
TYPICAL EFFICIENCY (50% Load):	92.45%
AVERAGE EFFICIENCY :	85.58%
AVERAGE STANDBY EFFICIENCY :	75.97%
80 PLUS COMPLIANT:	Platinum



ID Number	7773
Manufacturer	FSP Technology Inc.
Model Number	FSP650-50FUB
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	FLEX ATX
Test Date	3/26/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	60-50	Hz
Rated Output Power	650	Watts

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



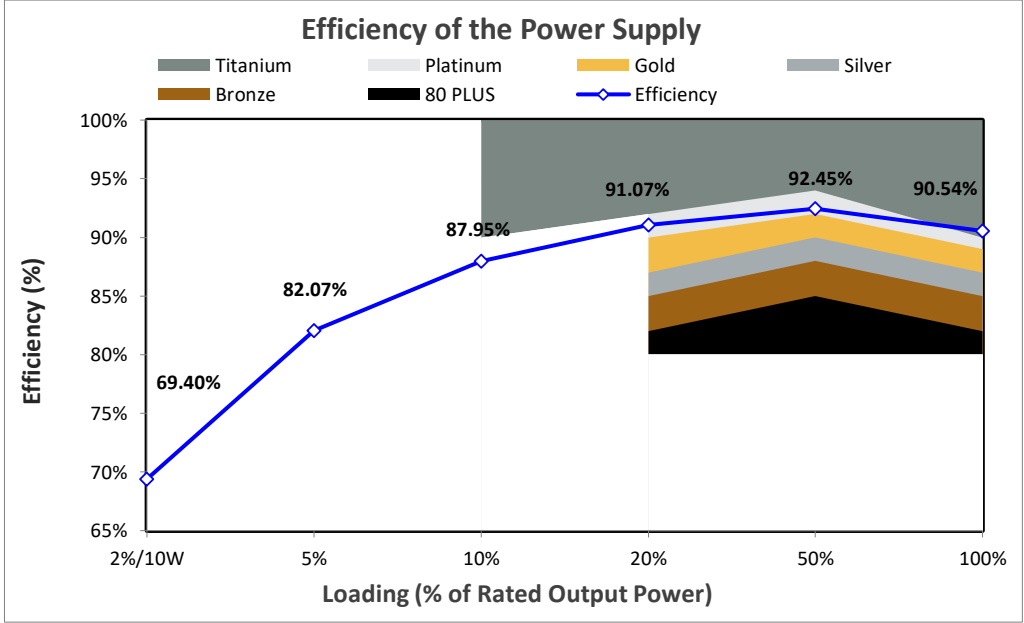
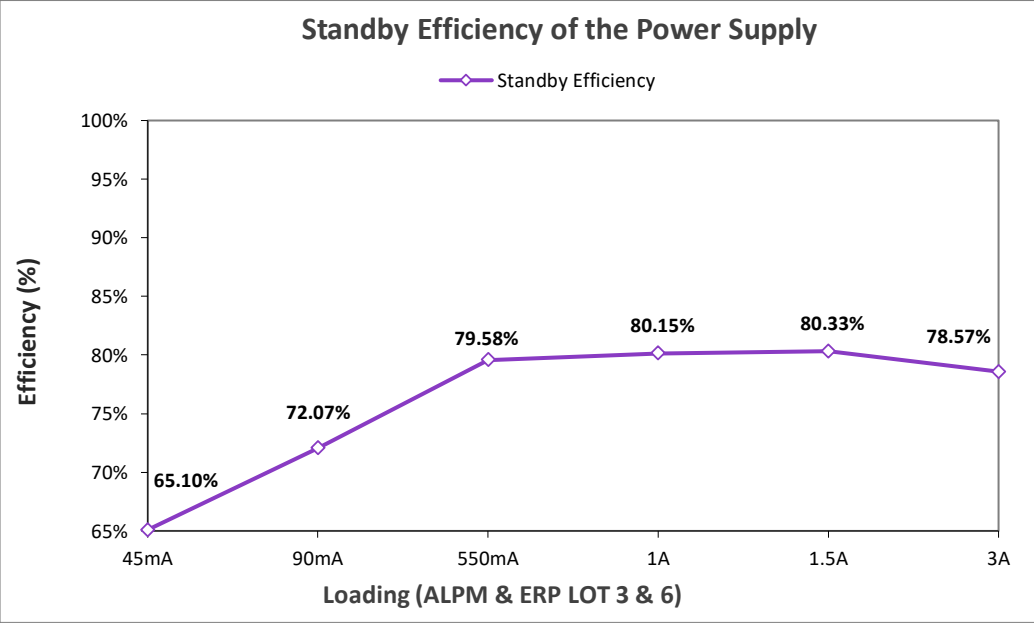
Input AC Current Waveform (ITHD = 6.82%, 50% Load)

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		
0.124	0.1528	11.92	0%	3.34	No-Load						
0.181	0.9040	24.62	2%/10W	18.84	12.025/0.918	12.038/0.005	3.388/0.188	5.129/0.214	5.129/0.051	13.08	69.40%
0.362	0.9569	22.07	5%	39.84	12.028/2.293	12.038/0.013	3.387/0.469	5.127/0.536	5.126/0.127	32.70	82.07%
0.662	0.9769	15.50	10%	74.33	12.029/4.583	12.054/0.025	3.385/0.938	5.124/1.070	5.121/0.254	65.37	87.95%
1.256	0.9926	8.14	20%	143.40	12.016/9.165	12.043/0.051	3.379/1.874	5.113/2.142	5.105/0.508	130.59	91.07%
3.078	0.9947	6.82	50%	352.12	11.981/22.910	12.051/0.127	3.365/4.689	5.089/5.358	5.068/1.269	325.52	92.45%
6.271	0.9923	4.87	100%	715.63	11.928/45.814	12.079/0.254	3.345/9.379	5.050/10.718	5.006/2.536	647.94	90.54%

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			
0.064	0.0093	3.88	0mA	0.07	Vampire Load			
0.064	0.0487	17.49	45mA	0.36	5.190/0.045		0.23	65.10%
0.066	0.0853	29.32	90mA	0.65	5.188/0.090		0.47	72.07%
0.100	0.3100	75.96	550mA	3.58	5.174/0.550		2.85	79.58%
0.145	0.3862	83.65	1A	6.44	5.159/1.000		5.16	80.15%
0.207	0.4005	85.59	1.5A	9.60	5.142/1.500		7.71	80.33%
0.369	0.4514	85.87	3A	19.46	5.091/3.003		15.29	78.57%

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/)