

80 PLUS Verification and Testing Report

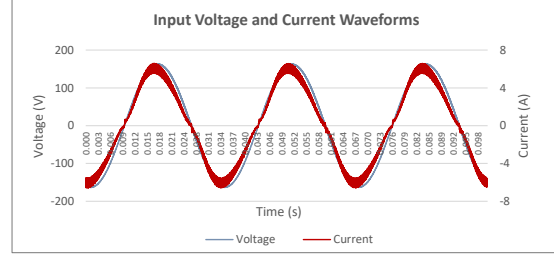
TYPICAL EFFICIENCY (50% Load):	92.45%
AVERAGE EFFICIENCY :	86.31%
AVERAGE STANDBY EFFICIENCY :	77.14%
80 PLUS COMPLIANT:	Platinum



ID Number	7823
Manufacturer	FSP Technology Inc.
Model Number	MEGA-850GM
Sample 1 S/N:	9PA8509900 S5020130006
Sample 2 S/N:	9PA8509900 S5020130021
Type	ATX12V, ATX 3.1
Test Date	5/6/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	11-5.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



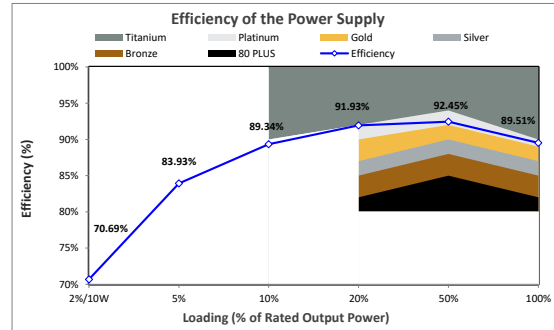
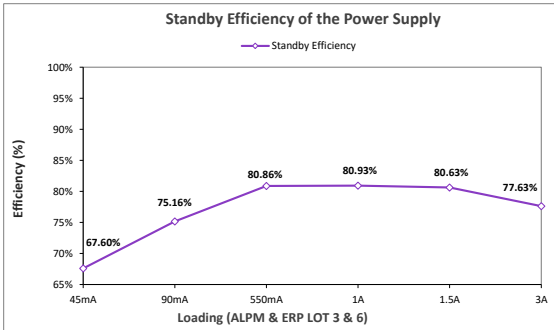
Input AC Current Waveform (ITHD = 9.45%, 50% Load)

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.)						
0.126	0.4377	26.19	0%	6.36	No-Load						
0.252	0.8393	24.03	2%/10W	24.36	12.136/1.219	12.096/0.005	3.385/0.249	5.110/0.249	5.105/0.052	17.22	70.69%
0.476	0.9369	23.01	5%	51.29	12.136/3.046	12.094/0.013	3.385/0.622	5.109/0.622	5.100/0.129	43.05	83.93%
0.861	0.9737	17.77	10%	96.36	12.135/6.091	12.092/0.026	3.385/1.243	5.111/1.243	5.093/0.258	86.09	89.34%
1.641	0.9922	9.28	20%	187.23	12.134/12.179	12.089/0.052	3.382/2.487	5.107/2.486	5.073/0.516	172.12	91.93%
4.073	0.9930	9.45	50%	465.11	12.131/30.449	12.084/0.129	3.367/6.217	5.094/6.217	5.011/1.290	429.98	92.45%
8.405	0.9903	11.15	100%	957.25	12.100/60.896	12.097/0.258	3.332/12.431	5.057/12.230	4.894/2.579	856.87	89.51%

Note: Efficiency data was obtained from Sample 1 (Serial Number: 9PA8509900 S5020130006)

I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Standby Efficiency
					5VSB						
0.082	0.0068	18.31	0mA	0.06	Vampire Load						
0.087	0.0339	28.46	45mA	0.34	5.109/0.045					0.23	67.60%
0.091	0.0586	43.70	90mA	0.61	5.107/0.090					0.46	75.16%
0.118	0.2553	73.16	550mA	3.46	5.086/0.550					2.80	80.86%
0.165	0.3305	83.14	1A	6.26	5.065/1.000					5.06	80.93%
0.224	0.3633	87.34	1.5A	9.38	5.041/1.500					7.56	80.63%
0.444	0.3757	91.16	3A	19.20	4.967/3.002					14.91	77.63%

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: 9PA8509900 S5020130021)



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/)