80 PLUS Verification and Testing Report

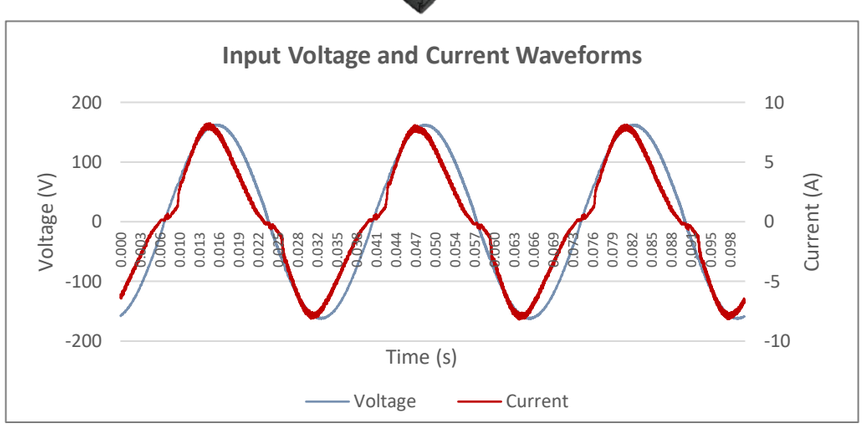
TYPICAL EFFICIENCY (50% Load):	**92.73%**
AVERAGE EFFICIENCY :	**86.54%**
AVERAGE STANDBY EFFICIENCY :	**79.01%**
80 PLUS COMPLIANT:	**Platinum**



ID Number	8091
Manufacturer	FSP Technology Inc.
Model Number	SDA2-1000PM
Sample 1 S/N:	9PA10A7900 S5311030012
Sample 2 S/N:	9PA10A7900 S5311030006
Type	ATX 3.1, SFX
Test Date	1/15/26

Rated	Value	Units
Input Voltage	100-240 / 200-240	**Volts**
Input Current	13-6 / 6	**Amps**
Input Frequency	50-60	**Hz**
Rated Output Power	1000	**Watts**

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



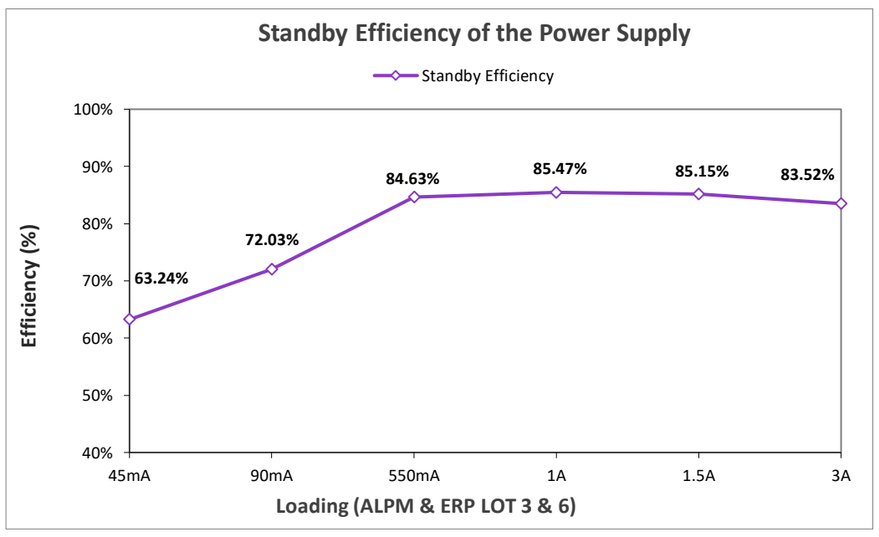
Input AC Current Waveform (ITHD = 18.8%, 50% Load)

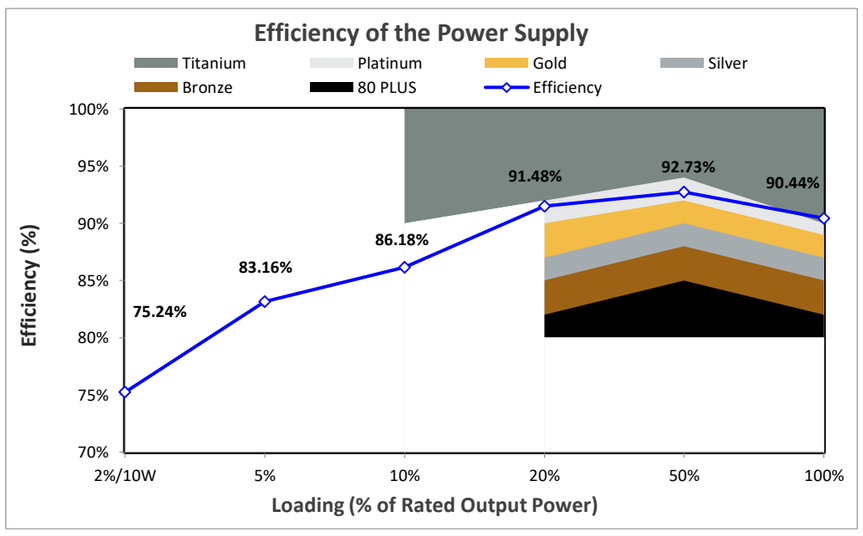
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.132	0.2102	10.50	0%	**3.18**	**No-Load**						
0.284	**0.8140**	19.48	2%/10W	**26.60**	12.002/1.492	11.947/0.005	3.304/0.215	5.020/0.215	5.060/0.054	**20.01**	**75.24%**
0.560	**0.9401**	16.87	5%	**60.54**	12.086/3.727	11.946/0.013	3.305/0.539	5.021/0.538	5.054/0.134	**50.35**	**83.16%**
1.051	**0.9668**	19.27	10%	**116.93**	12.098/7.453	11.949/0.027	3.305/1.075	5.021/1.075	5.059/0.268	**100.77**	**86.18%**
1.974	**0.9703**	20.69	20%	**220.41**	12.104/14.902	11.950/0.054	3.305/2.152	5.021/2.152	5.048/0.537	**201.63**	**91.48%**
4.881	**0.9722**	18.80	50%	**542.93**	12.090/37.254	11.955/0.134	3.308/5.383	5.023/5.384	5.011/1.341	**503.48**	**92.73%**
9.821	**0.9816**	15.44	100%	**1111.36**	12.067/74.501	11.981/0.268	3.311/10.768	5.027/10.769	4.941/2.682	**1005.08**	**90.44%**

Note: Efficiency data was obtained from Sample 1 (Serial Number: 9PA10A7900 S5311030012)

$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)	Output Watts	Standby Efficiency
					5VSB		
0.105	0.0066	3.73	0mA	**0.08**	**Vampire Load**		
0.106	**0.0295**	8.86	45mA	**0.36**	5.038/0.045	**0.23**	**63.24%**
0.107	**0.0511**	14.68	90mA	**0.63**	5.034/0.090	**0.45**	**72.03%**
0.126	**0.2257**	49.47	550mA	**3.26**	5.013/0.550	**2.76**	**84.63%**
0.155	**0.3276**	66.21	1A	**5.85**	5.000/1.000	**5.00**	**85.47%**
0.196	**0.3889**	75.02	1.5A	**8.77**	4.979/1.500	**7.47**	**85.15%**
0.333	**0.4600**	82.40	3A	**17.62**	4.904/3.001	**14.71**	**83.52%**

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: 9PA10A7900 S5311030006)





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]