80 PLUS Verification and Testing Report

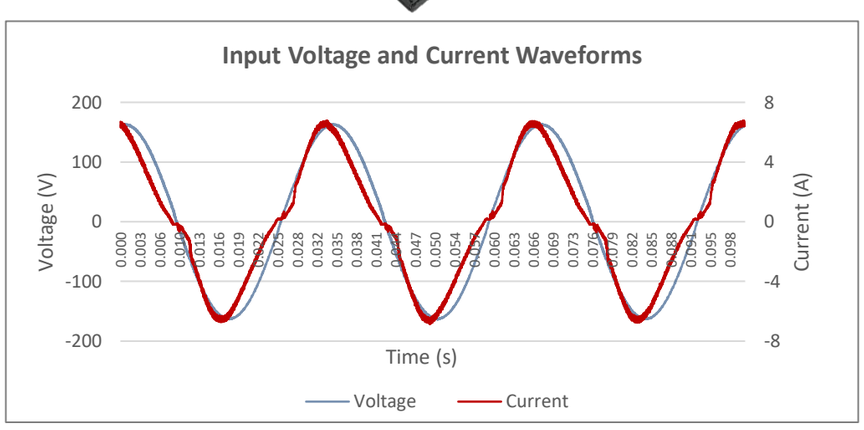
TYPICAL EFFICIENCY (50% Load):	**92.73%**
AVERAGE EFFICIENCY :	**85.59%**
AVERAGE STANDBY EFFICIENCY :	**79.51%**
80 PLUS COMPLIANT:	**Platinum**



ID Number	8090
Manufacturer	FSP Technology Inc.
Model Number	SDA2-850PM
Sample 1 S/N:	9PA850A600 S5311030002
Sample 2 S/N:	9PA850A600 S5311030017
Type	ATX 3.1, SFX
Test Date	1/15/26

Rated	**Value**	**Units**
Input Voltage	100-240 / 200-240	**Volts**
Input Current	11-5.5 / 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.



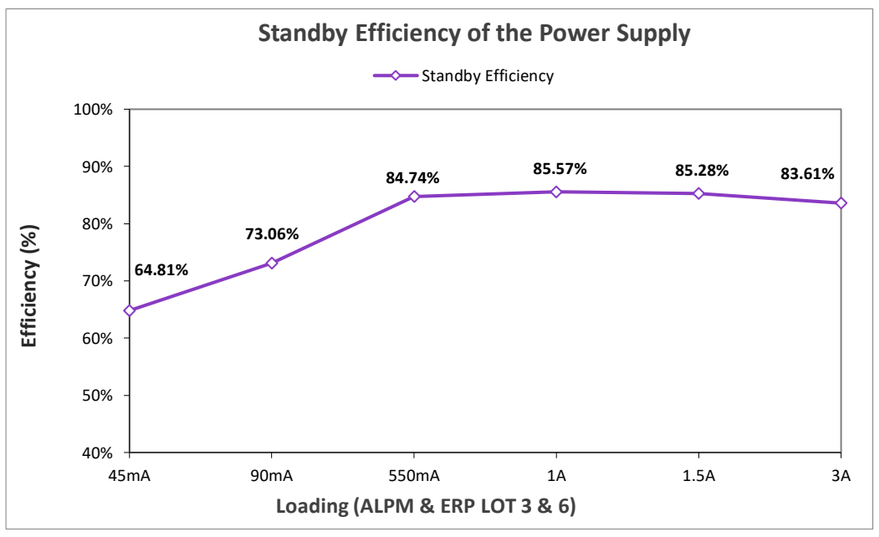
Input AC Current Waveform (ITHD = 17.35%, 50% Load)

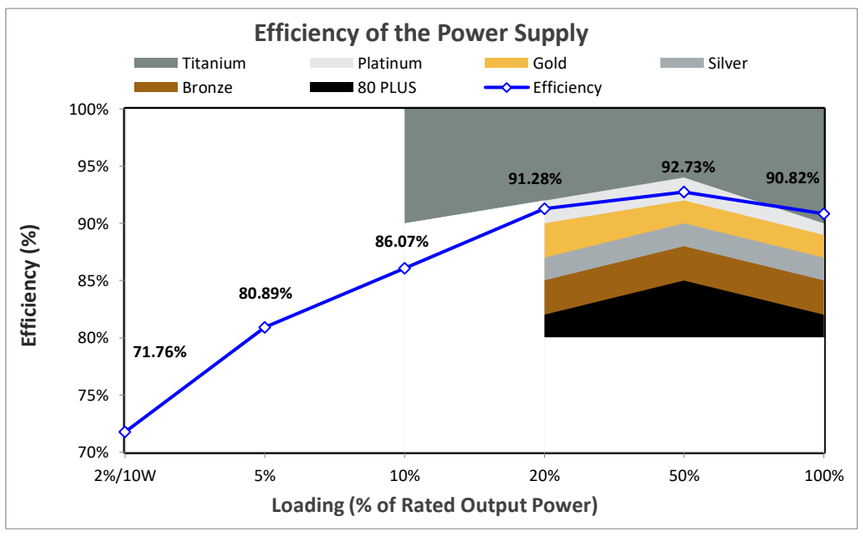
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.135	0.1889	13.51	0%	**2.94**	**No-Load**						
0.275	**0.7503**	20.61	2%/10W	**23.75**	12.018/1.245	11.988/0.005	3.321/0.211	5.025/0.211	5.082/0.053	**17.04**	**71.76%**
0.499	**0.9238**	14.02	5%	**52.99**	12.102/3.110	11.988/0.013	3.322/0.529	5.027/0.528	5.079/0.132	**42.86**	**80.89%**
0.895	**0.9665**	14.62	10%	**99.43**	12.083/6.219	11.989/0.026	3.322/1.055	5.026/1.056	5.074/0.263	**85.58**	**86.07%**
1.680	**0.9703**	18.64	20%	**187.45**	12.078/12.434	11.989/0.053	3.323/2.112	5.027/2.113	5.065/0.527	**171.10**	**91.28%**
4.110	**0.9745**	17.35	50%	**460.91**	12.068/31.084	11.993/0.132	3.325/5.284	5.028/5.285	5.033/1.317	**427.41**	**92.73%**
8.304	**0.9847**	13.87	100%	**940.54**	12.062/62.160	12.035/0.263	3.328/10.570	5.032/10.571	4.957/2.632	**854.19**	**90.82%**

Note: Efficiency data was obtained from Sample 1 (Serial Number: 9PA850A600 S5311030002)

$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)	Output Watts	Standby Efficiency
					5VSB		
0.105	0.0062	3.75	0mA	**0.08**	**Vampire Load**		
0.105	**0.0291**	8.84	45mA	**0.35**	5.088/0.045	**0.23**	**64.81%**
0.106	**0.0509**	14.73	90mA	**0.62**	5.061/0.090	**0.46**	**73.06%**
0.125	**0.2270**	50.09	550mA	**3.27**	5.040/0.550	**2.77**	**84.74%**
0.155	**0.3286**	66.50	1A	**5.87**	5.024/1.000	**5.02**	**85.57%**
0.196	**0.3900**	75.35	1.5A	**8.79**	4.999/1.500	**7.50**	**85.28%**
0.328	**0.4669**	82.68	3A	**17.63**	4.912/3.000	**14.74**	**83.61%**

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: 9PA850A600 S5311030017)





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.
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