80 PLUS Verification and Testing Report

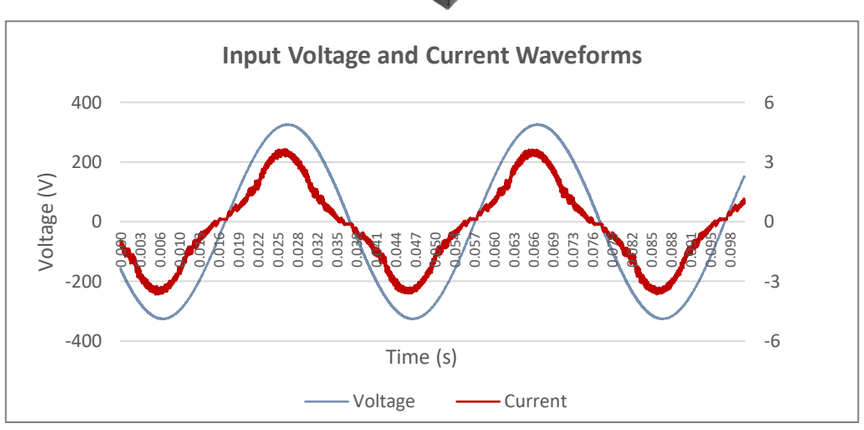
TYPICAL EFFICIENCY (50% Load):	**93.62%**
AVERAGE EFFICIENCY :	**87.31%**
AVERAGE STANDBY EFFICIENCY :	**74.52%**
80 PLUS COMPLIANT:	**Gold**



ID Number	EU-1286
Manufacturer	Lemon-ET
Model Number	ATX 850W GOLD
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V
Test Date	12/17/25

Rated	**Value**	**Units**
Input Voltage	200-240	**Volts**
Input Current	8	**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.



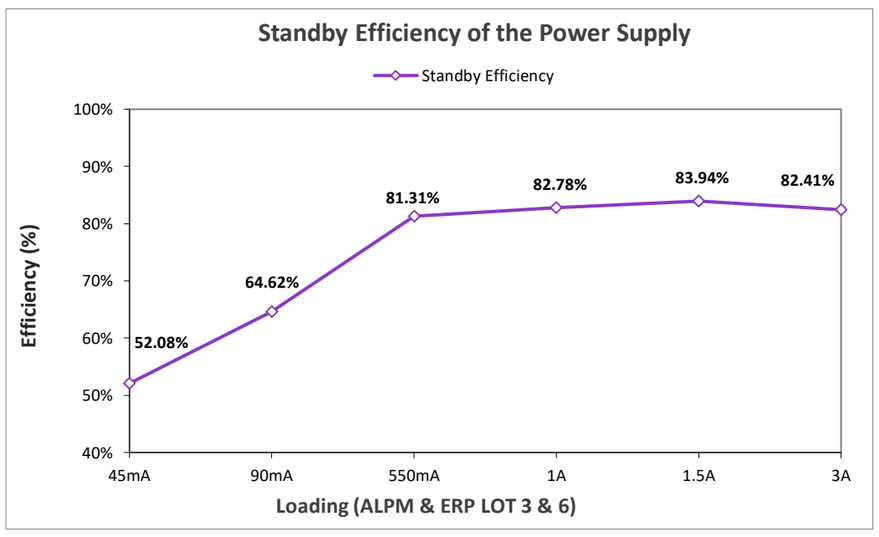
Input AC Current Waveform (ITHD = 21.25%, 50% Load)

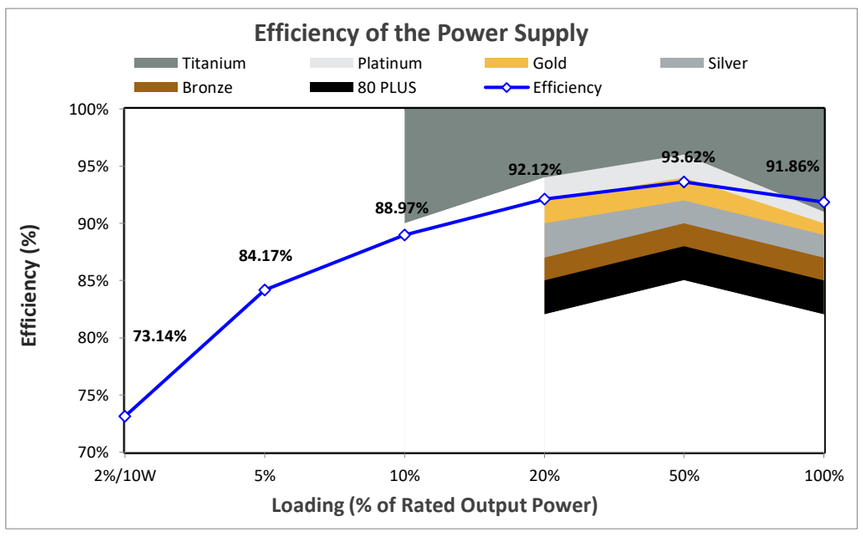
$I_{RMS\ (A)}$	PF	$I_{THD\ (\%)}$	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.106	0.1834	11.96	0%	**4.64**	**No-Load**						
0.174	**0.5873**	30.55	2%/10W	**23.54**	12.141/1.245	11.854/0.005	3.376/0.211	5.043/0.211	5.081/0.053	**17.21**	**73.14%**
0.283	**0.7859**	29.40	5%	**51.10**	12.138/3.109	11.856/0.013	3.373/0.529	5.041/0.529	5.075/0.132	**43.01**	**84.17%**
0.476	**0.8831**	29.31	10%	**96.62**	12.137/6.217	11.856/0.026	3.369/1.055	5.036/1.056	5.068/0.263	**85.96**	**88.97%**
0.891	**0.9105**	34.32	20%	**186.64**	12.138/12.435	11.860/0.053	3.360/2.113	5.027/2.113	5.046/0.527	**171.93**	**92.12%**
2.058	**0.9681**	21.25	50%	**458.35**	12.129/31.083	11.868/0.132	3.330/5.286	4.994/5.287	4.982/1.317	**429.11**	**93.62%**
4.098	**0.9898**	10.74	100%	**933.03**	12.131/62.164	11.877/0.263	3.286/10.575	4.942/10.575	4.917/2.633	**857.09**	**91.86%**

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		
0.089	0.0083	3.40	0mA	**0.17**	**Vampire Load**		
0.089	**0.0214**	7.88	45mA	**0.44**	5.051/0.045	**0.23**	**52.08%**
0.090	**0.0345**	11.91	90mA	**0.70**	5.050/0.090	**0.45**	**64.62%**
0.100	**0.1482**	43.06	550mA	**3.40**	5.033/0.550	**2.77**	**81.31%**
0.116	**0.2288**	59.41	1A	**6.06**	5.016/1.000	**5.02**	**82.78%**
0.138	**0.2806**	70.60	1.5A	**8.93**	4.997/1.500	**7.50**	**83.94%**
0.216	**0.3654**	83.27	3A	**17.98**	4.940/3.000	**14.82**	**82.41%**

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.
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