80 PLUS Verification and Testing Report

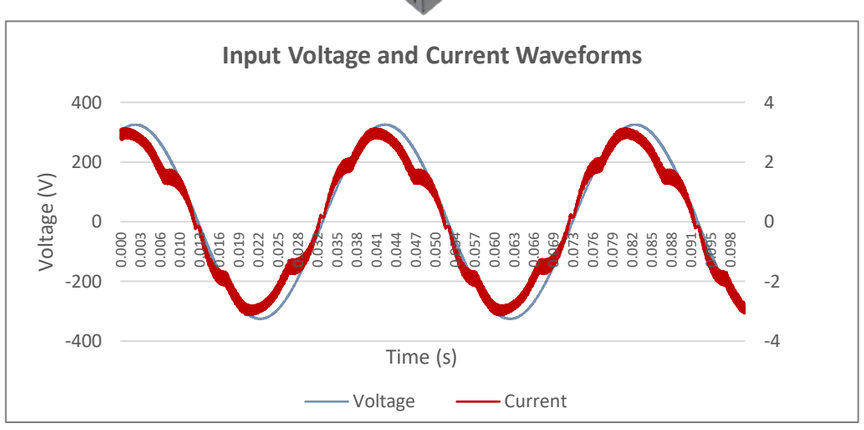
TYPICAL EFFICIENCY (50% Load):	**88.12%**
AVERAGE EFFICIENCY :	**79.91%**
AVERAGE STANDBY EFFICIENCY :	**71.86%**
80 PLUS COMPLIANT:	**Standard**



ID Number	EU-2820
Manufacturer	Lemon-ET
Model Number	ATX 800W STANDARD
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX12V
Test Date	2/25/25

Rated	**Value**	**Units**
Input Voltage	190-250	**Volts**
Input Current	N/A	**Amps**
Input Frequency	60-50	**Hz**
Rated Output Power	800	**Watts**

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



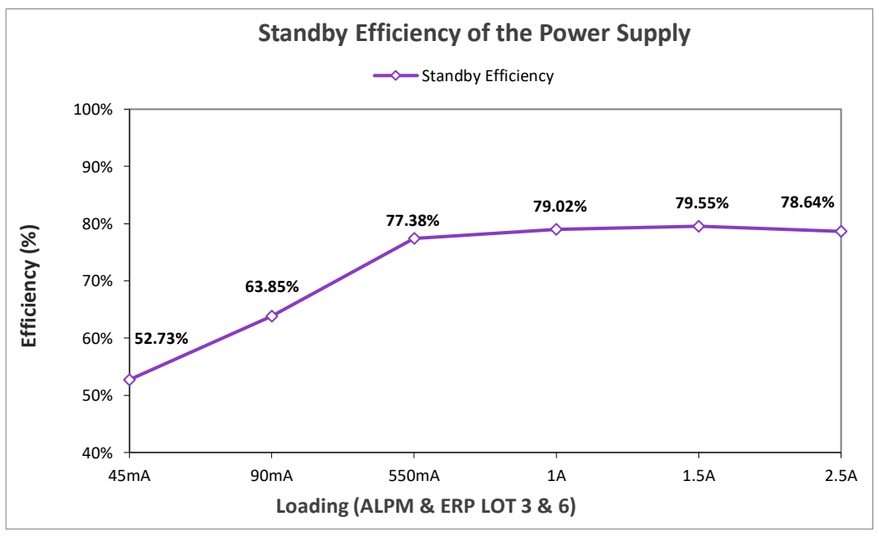
Input AC Current Waveform (ITHD = 8.97%, 50% Load)

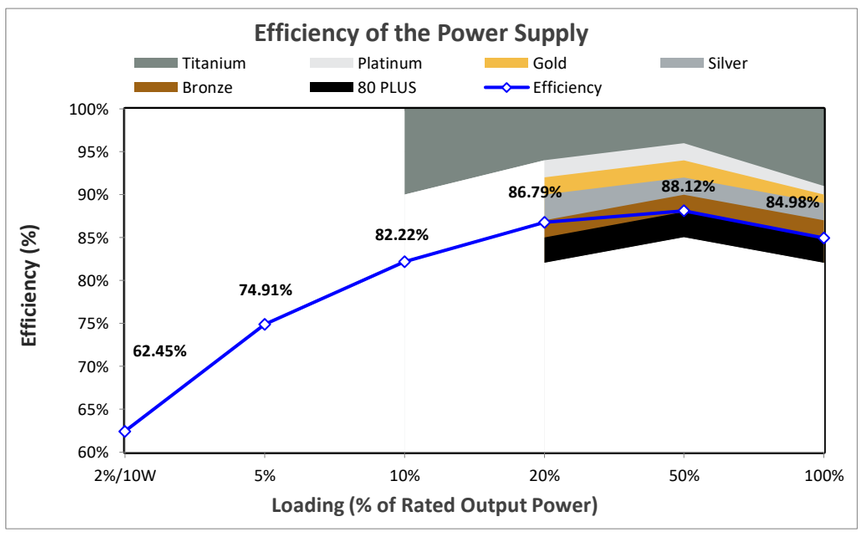
I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.190	0.1179	25.04	0%	**5.17**	**No-Load**						
0.372	**0.3057**	58.73	2%/10W	**26.17**	12.221/1.157	12.227/0.006	3.397/0.219	5.240/0.219	5.104/0.050	**16.34**	**62.45%**
0.513	**0.4622**	64.45	5%	**54.51**	12.219/2.889	12.229/0.015	3.402/0.548	5.238/0.548	5.100/0.125	**40.84**	**74.91%**
0.694	**0.6221**	72.50	10%	**99.35**	12.223/5.778	12.229/0.030	3.407/1.093	5.231/1.093	5.095/0.249	**81.69**	**82.22%**
0.945	**0.8655**	44.32	20%	**188.16**	12.219/11.553	12.227/0.060	3.404/2.188	5.221/2.188	5.084/0.498	**163.30**	**86.79%**
2.035	**0.9880**	8.97	50%	**462.44**	12.203/28.883	12.205/0.149	3.387/5.474	5.196/5.474	5.051/1.245	**407.48**	**88.12%**
4.184	**0.9921**	7.41	100%	**955.02**	12.164/57.757	12.214/0.299	3.353/10.950	5.157/10.950	4.991/2.489	**811.62**	**84.98%**

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		
0.109	0.0062	1.86	0mA	**0.16**	**Vampire Load**		
0.109	**0.0172**	5.52	45mA	**0.43**	5.091/0.045	**0.23**	**52.73%**
0.110	**0.0282**	8.95	90mA	**0.72**	5.090/0.090	**0.46**	**63.85%**
0.119	**0.1318**	35.62	550mA	**3.61**	5.078/0.550	**2.79**	**77.38%**
0.134	**0.2084**	52.60	1A	**6.41**	5.067/1.000	**5.07**	**79.02%**
0.154	**0.2691**	64.32	1.5A	**9.53**	5.055/1.500	**7.58**	**79.55%**
0.202	**0.3435**	76.50	2.5A	**15.99**	5.029/2.500	**12.57**	**78.64%**

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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