80 PLUS Verification and Testing Report

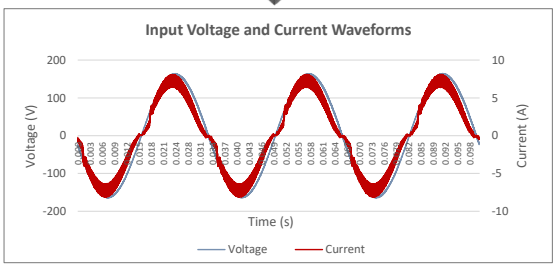
TYPICAL EFFICIENCY (50% Load):	91.45%
AVERAGE EFFICIENCY :	84.24%
AVERAGE STANDBY EFFICIENCY :	77.59%
80 PLUS COMPLIANT:	Gold



ID Number	7942
Manufacturer	Aerocool
Model Number	ACPS-2501
Sample 1 S/N:	XHGPRK0FUC7580001
Sample 2 S/N:	XHGPRK0FUC7580002
Type	ATX 3.1
Test Date	8/25/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	13-7	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.



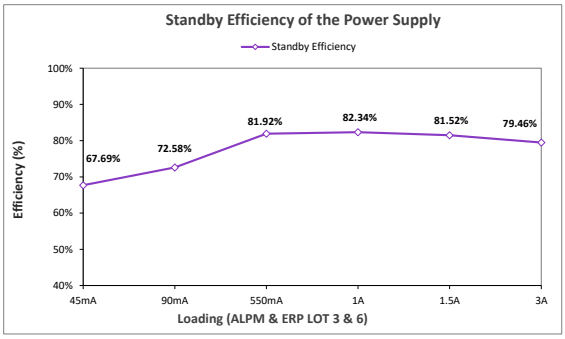
Input AC Current Waveform (ITHD = 11.47%, 50% Load)

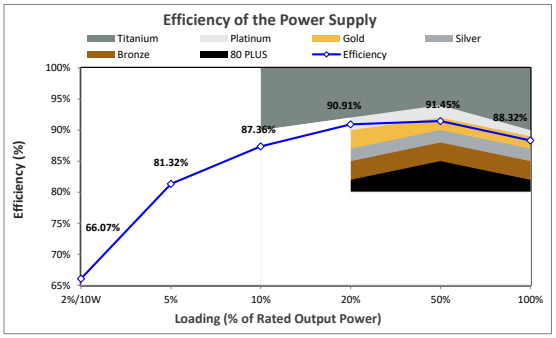
I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.137	0.5998	29.32	0%	9.44	No-Load						
0.316	**0.8385**	22.09	2%/10W	30.44	12.070/1.491	12.151/0.005	3.286/0.215	5.022/0.216	5.106/0.054	20.11	**66.07%**
0.589	**0.9133**	17.80	5%	61.83	12.070/3.726	12.152/0.013	3.286/0.539	5.021/0.539	5.103/0.134	50.28	**81.32%**
1.065	**0.9396**	16.10	10%	115.13	12.072/7.449	12.153/0.027	3.288/1.077	5.022/1.078	5.099/0.268	100.57	**87.36%**
1.991	**0.9665**	13.33	20%	221.28	12.076/14.895	12.155/0.054	3.289/2.154	5.022/2.155	5.089/0.537	201.17	**90.91%**
4.856	**0.9857**	11.47	50%	550.46	12.086/37.245	12.148/0.134	3.291/5.387	5.022/5.388	5.059/1.342	503.41	**91.45%**
10.011	**0.9924**	6.50	100%	1141.33	12.101/74.489	12.132/0.268	3.295/10.773	5.025/10.774	5.009/2.682	1008.04	**88.32%**

Note: Efficiency data was obtained from Sample 1 (Serial Number: XHGPRK0FUC7580001)

I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)	Output Watts	Standby Efficiency
					5VSB		
0.063	0.0080	17.55	0mA	0.06	Vampire Load		
0.063	**0.0470**	23.05	45mA	0.34	5.112/0.045	0.23	**67.69%**
0.067	**0.0822**	32.60	90mA	0.63	5.111/0.090	0.46	**72.58%**
0.102	**0.2925**	74.83	550mA	3.42	5.101/0.550	2.81	**81.92%**
0.151	**0.3563**	82.63	1A	6.18	5.091/1.000	5.09	**82.34%**
0.202	**0.4025**	85.25	1.5A	9.35	5.080/1.500	7.62	**81.52%**
0.379	**0.4372**	85.52	3A	19.06	5.046/3.001	15.14	**79.46%**

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: XHGPRK0FUC7580002)





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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