

80 PLUS Verification and Testing Report

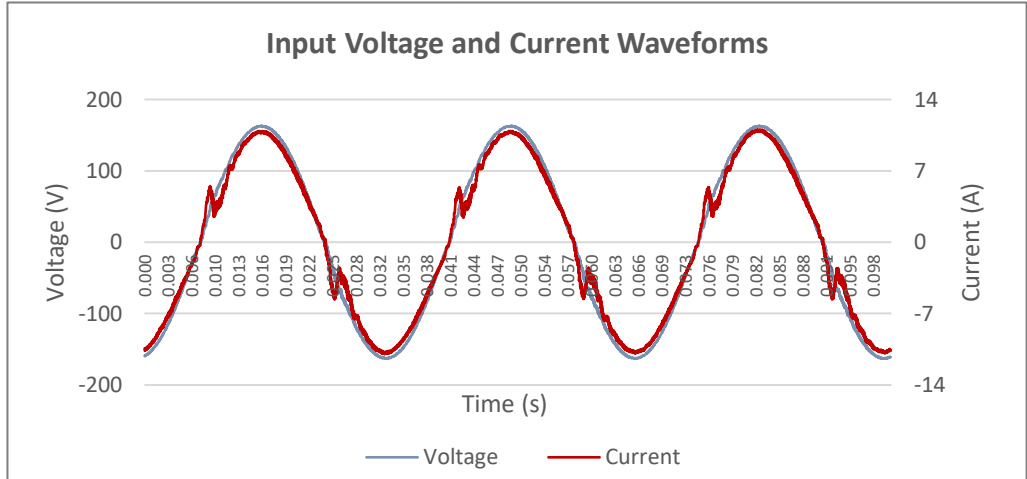
TYPICAL EFFICIENCY (50% Load):	94.24%
AVERAGE EFFICIENCY :	88.95%
AVERAGE STANDBY EFFICIENCY :	80.06%
80 PLUS COMPLIANT:	Titanium



ID Number	8164
Manufacturer	Be Quiet
Model Number	P14-PRO-1600W
Sample 1 S/N:	N/A
Sample 2 S/N:	N/A
Type	ATX 3.1
Test Date	4/1/26

Rated	Value	Units
Input Voltage	115-240	Volts
Input Current	15-9	Amps
Input Frequency	50-60	Hz
Rated Output Power	1600	Watts

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

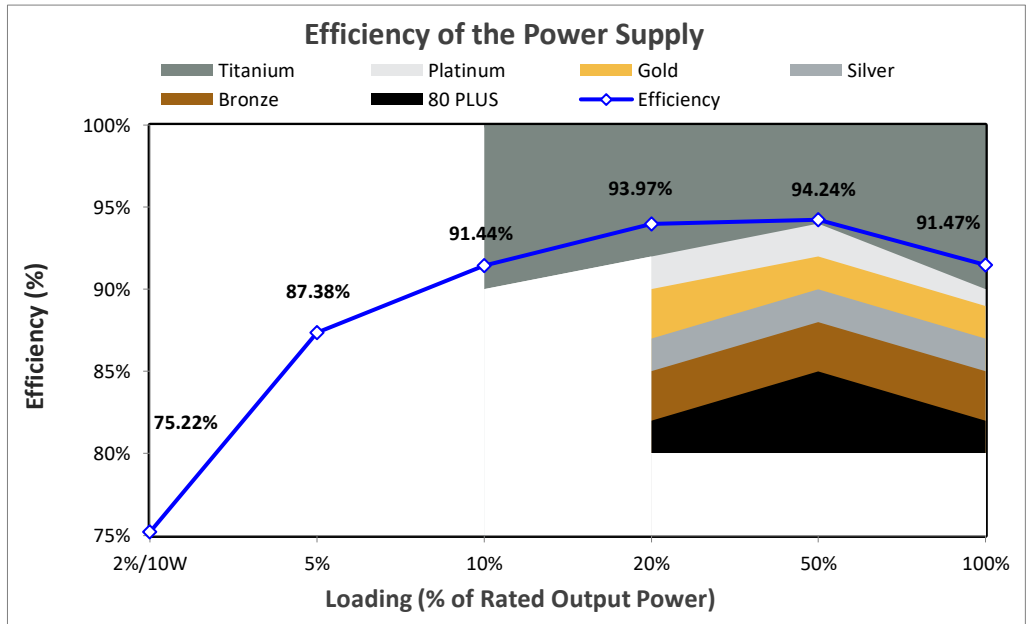
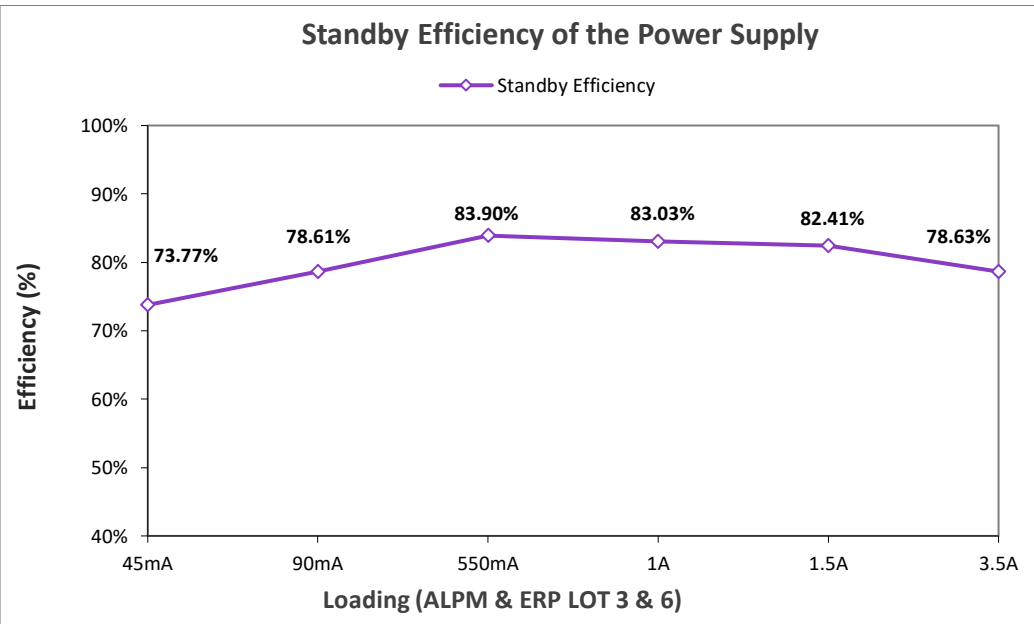


I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.205	0.4577	29.54	0%	10.80	No-Load						
0.462	0.8067	44.98	2%/10W	42.89	12.095/2.407	12.001/0.009	3.317/0.326	5.058/0.326	4.995/0.063	32.26	75.22%
0.895	0.8966	39.96	5%	92.32	12.099/6.016	12.005/0.023	3.318/0.815	5.058/0.815	4.993/0.158	80.66	87.38%
1.553	0.9874	14.08	10%	176.44	12.100/12.031	12.008/0.045	3.320/1.628	5.060/1.628	4.991/0.316	161.33	91.44%
3.016	0.9922	11.97	20%	343.19	12.094/24.060	12.007/0.090	3.320/3.259	5.060/3.258	4.989/0.632	322.51	93.97%
7.463	0.9958	8.70	50%	855.11	12.085/60.148	12.012/0.226	3.326/8.150	5.066/8.150	4.983/1.579	805.81	94.24%
15.361	0.9956	4.66	100%	1759.07	12.065/120.287	12.017/0.451	3.332/16.299	5.073/16.300	4.971/3.157	1609.08	91.47%

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			
0.131	0.0026	2.92	0mA	0.04	Vampire Load			
0.132	0.0201	12.03	45mA	0.30	4.999/0.045		0.23	73.77%
0.134	0.0371	20.67	90mA	0.57	4.999/0.090		0.45	78.61%
0.145	0.1972	37.30	550mA	3.28	5.001/0.550		2.75	83.90%
0.167	0.3132	53.71	1A	6.03	5.002/1.000		5.00	83.03%
0.202	0.3918	63.83	1.5A	9.11	5.004/1.500		7.51	82.41%
0.366	0.5308	77.12	3.5A	22.29	5.006/3.501		17.53	78.63%

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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