

80 PLUS Verification and Testing Report

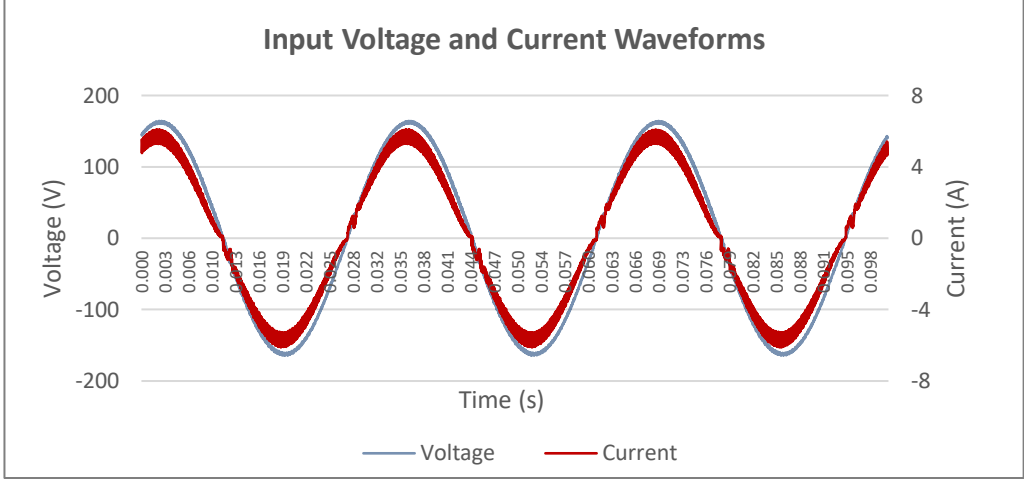
TYPICAL EFFICIENCY (50% Load):	94.96%
AVERAGE EFFICIENCY :	88.26%
AVERAGE STANDBY EFFICIENCY :	76.84%
80 PLUS COMPLIANT:	Titanium



ID Number	7949
Manufacturer	Be Quiet
Model Number	P14-850W
Sample 1 S/N:	C25050024456
Sample 2 S/N:	C25050024391
Type	ATX 3.1
Test Date	8/27/25

Rated	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	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.



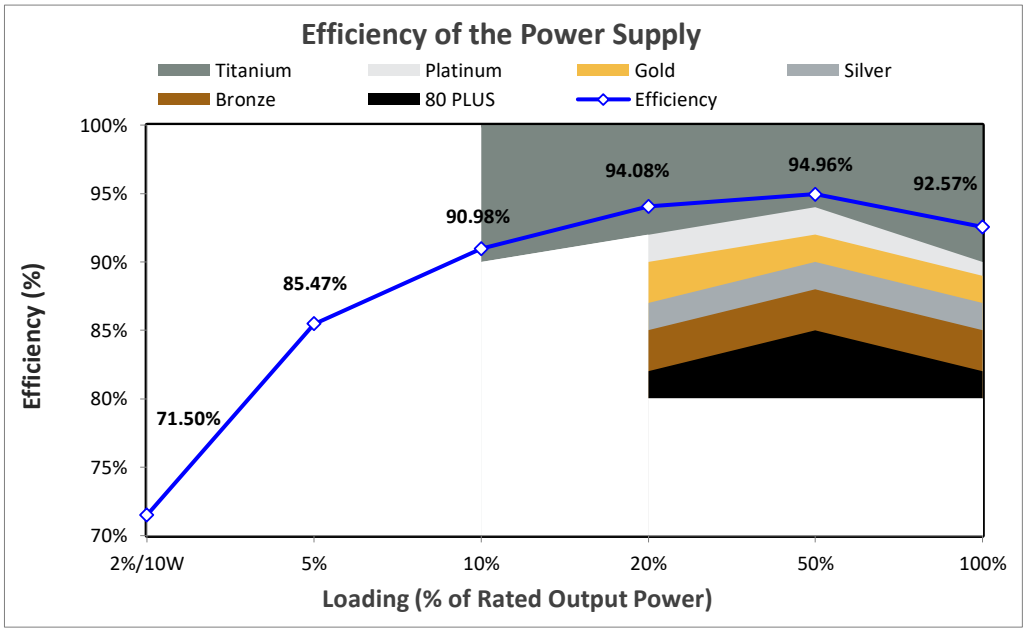
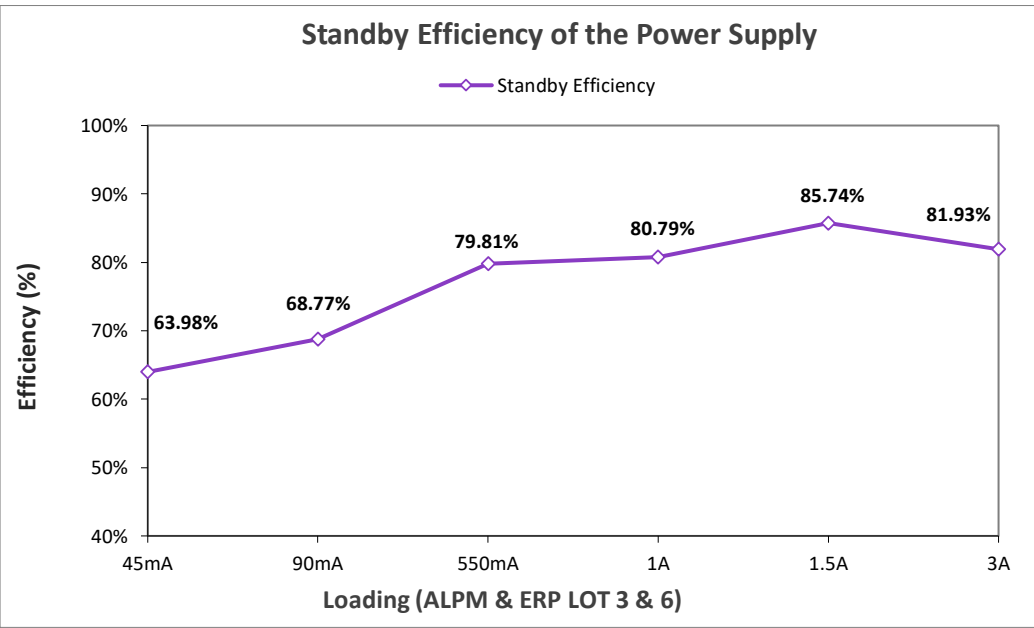
Input AC Current Waveform (ITHD = 4.05%, 50% Load)

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		
0.124	0.4177	35.80	0%	5.96	No-Load						
0.258	0.8051	12.57	2%/10W	23.89	12.047/1.301	12.022/0.005	3.302/0.144	5.049/0.144	5.091/0.030	17.08	71.50%
0.471	0.9218	8.72	5%	49.94	12.046/3.249	12.022/0.013	3.302/0.361	5.049/0.361	5.089/0.075	42.69	85.47%
0.843	0.9671	8.22	10%	93.81	12.045/6.497	12.023/0.025	3.302/0.722	5.049/0.722	5.086/0.150	85.34	90.98%
1.603	0.9837	8.52	20%	181.41	12.043/12.994	12.023/0.050	3.303/1.443	5.050/1.443	5.079/0.300	170.66	94.08%
3.919	0.9961	4.05	50%	449.02	12.035/32.482	12.026/0.125	3.304/3.610	5.050/3.610	5.059/0.750	426.38	94.96%
8.108	0.9868	5.91	100%	920.22	12.021/64.963	12.030/0.250	3.304/7.223	5.052/7.224	5.025/1.500	851.82	92.57%

Note: Efficiency data was obtained from Sample 1 (Serial Number: C25050024456)

I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Standby Efficiency
					5VSB						
0.088	0.0082	4.16	0mA	0.08	Vampire Load						
0.089	0.0347	10.67	45mA	0.36	5.078/0.045					0.23	63.98%
0.090	0.0642	16.75	90mA	0.66	5.077/0.090					0.46	68.77%
0.113	0.2698	56.53	550mA	3.49	5.067/0.550					2.79	79.81%
0.147	0.3703	71.35	1A	6.26	5.057/1.000					5.06	80.79%
0.187	0.4124	78.39	1.5A	8.83	5.045/1.500					7.57	85.74%
0.395	0.4044	83.43	3A	18.36	5.011/3.003					15.04	81.93%

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: C25050024391)



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. <https://www.clearesult.com/80plus/> [\[clearesult.com\]](https://www.clearesult.com/)