

80 PLUS Verification and Testing Report

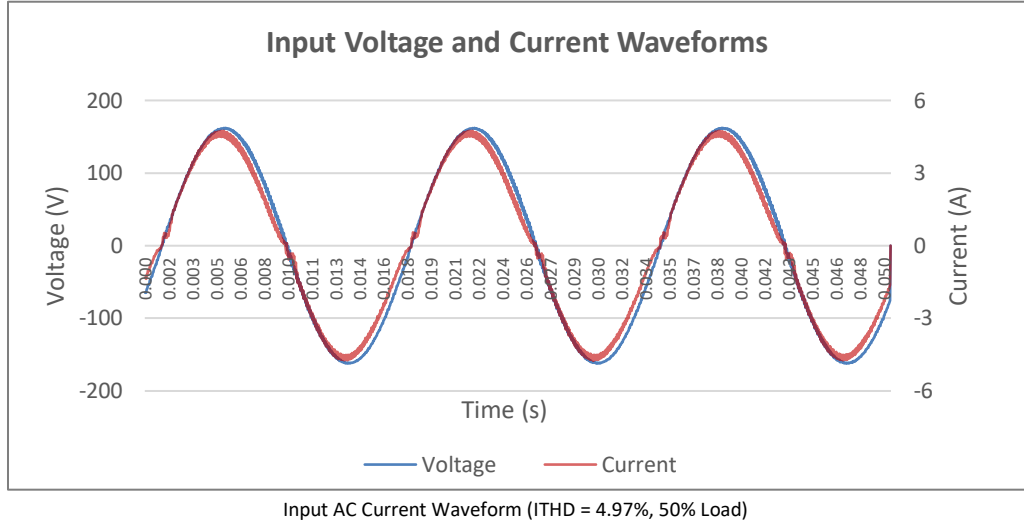
TYPICAL EFFICIENCY (50% Load):	90.61%
AVERAGE EFFICIENCY :	82.50%
AVERAGE STANDBY EFFICIENCY :	80.66%
80 PLUS COMPLIANT:	Gold



ID Number	7722
Manufacturer	Be Quiet
Model Number	S11-M-650W
Sample 1 S/N:	016EUS4420000044
Sample 2 S/N:	016EUS4421000050
Type	ATX12V, ATX 3.1
Test Date	1/24/25

Rated	Value	Units
Input Voltage	110-240	Volts
Input Current	10-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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

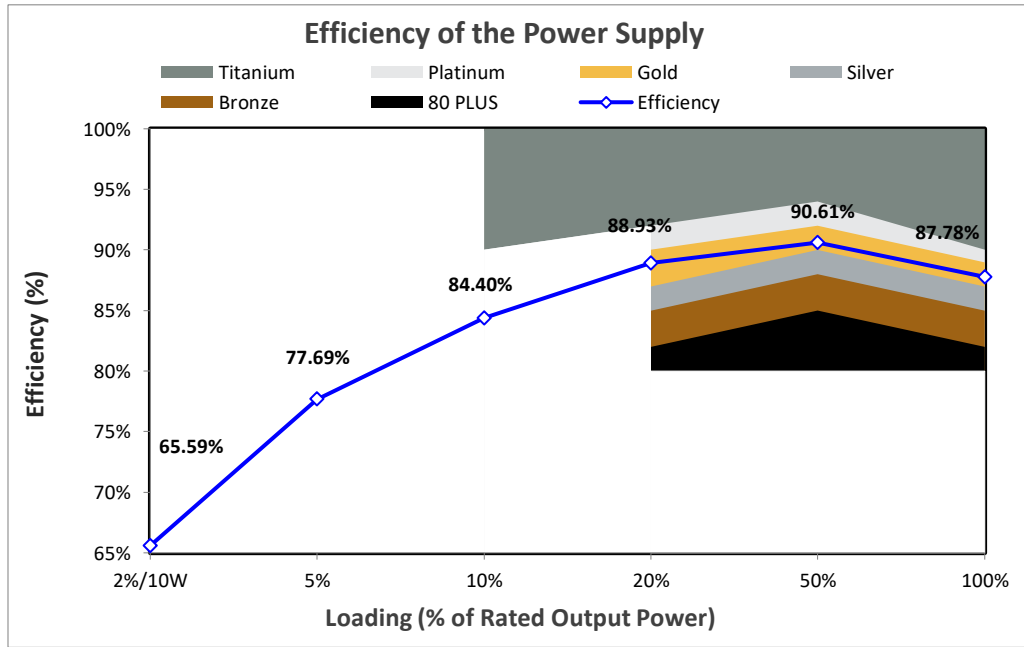
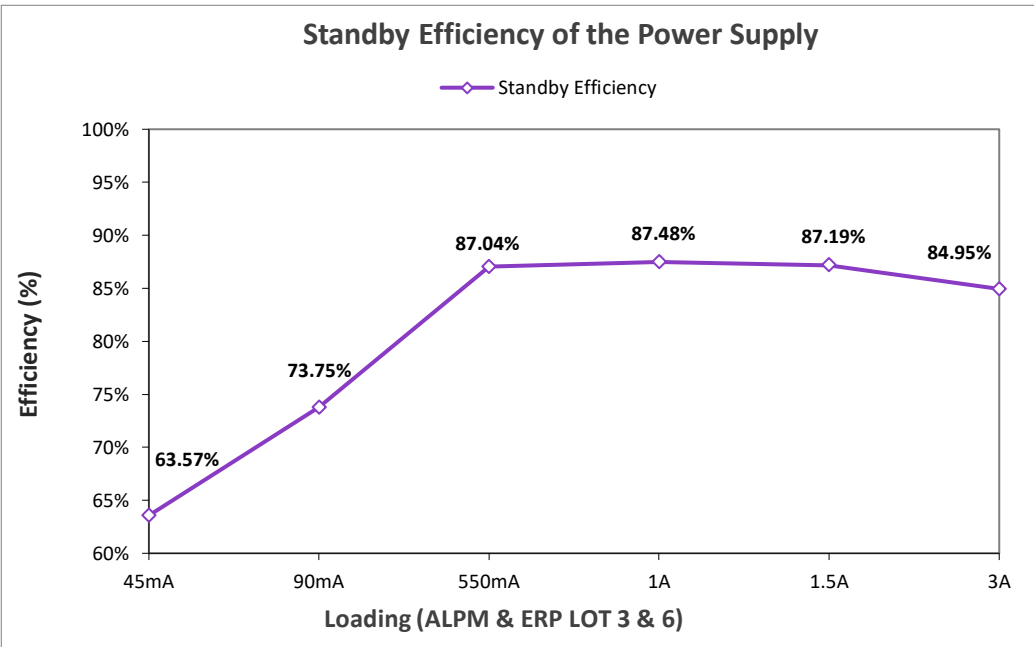


I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5VSB		
0.065	0.5010	51.35	0%	3.73	No-Load						
0.201	0.8697	22.73	2%/10W	20.13	12.196/0.895	12.084/0.005	3.318/0.238	5.045/0.238	5.136/0.050	13.20	65.59%
0.385	0.9586	13.57	5%	42.49	12.191/2.235	12.071/0.012	3.321/0.596	5.066/0.596	5.131/0.124	33.01	77.69%
0.700	0.9713	12.06	10%	78.16	12.185/4.467	12.055/0.025	3.321/1.192	5.065/1.191	5.121/0.247	65.97	84.40%
1.308	0.9865	8.76	20%	148.24	12.174/8.933	12.036/0.050	3.317/2.384	5.071/2.383	5.102/0.495	131.83	88.93%
3.180	0.9964	4.97	50%	362.62	12.138/22.327	11.993/0.124	3.307/5.959	5.066/5.958	5.045/1.237	328.57	90.61%
6.480	0.9989	2.95	100%	744.31	12.074/44.652	12.022/0.247	3.282/11.916	5.034/11.915	4.946/2.472	653.33	87.78%

Note: Efficiency data was obtained from Sample 1 (Serial Number: 016EUS4420000044)

I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Standby Efficiency
					5VSB			
0.022	0.0267	7.16	0mA	0.07	Vampire Load			
0.026	0.1239	40.07	45mA	0.37	5.162/0.045		0.23	63.57%
0.032	0.1722	57.88	90mA	0.63	5.159/0.090		0.46	73.75%
0.076	0.3718	87.74	550mA	3.24	5.130/0.550		2.82	87.04%
0.121	0.4181	88.77	1A	5.83	5.102/1.000		5.10	87.48%
0.173	0.4382	88.56	1.5A	8.72	5.070/1.500		7.61	87.19%
0.324	0.4709	87.29	3A	17.57	4.972/3.003		14.93	84.95%

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: 016EUS4421000050)



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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