

80 PLUS Verification and Testing Report

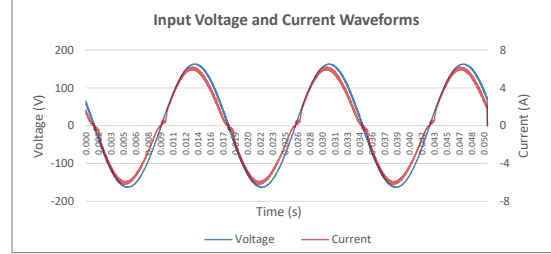
TYPICAL EFFICIENCY (50% Load):	90.57%
AVERAGE EFFICIENCY :	84.18%
AVERAGE STANDBY EFFICIENCY :	79.82%
80 PLUS COMPLIANT:	Gold



ID Number	7724
Manufacturer	Be Quiet
Model Number	S11-M-850W
Sample 1 S/N:	018EUS4420000019
Sample 2 S/N:	018EUS4421000050
Type	ATX12V, ATX 3.1
Test Date	1/30/25

Rated	Value	Units
Input Voltage	110-240	Volts
Input Current	12-6	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.



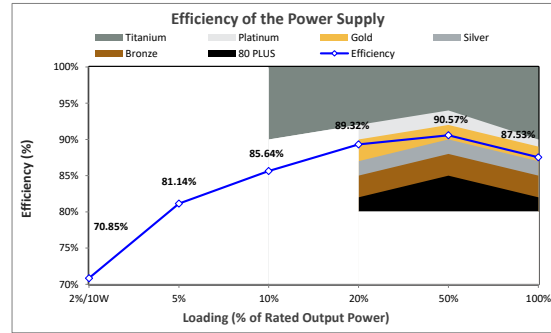
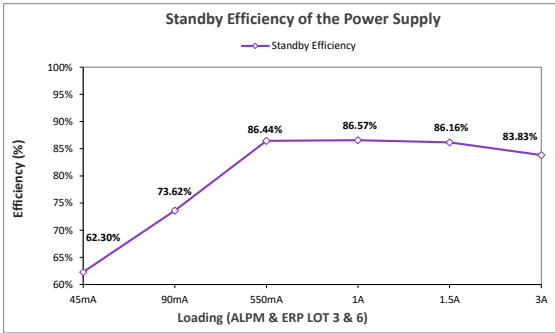
Input AC Current Waveform (ITHD = 7.02%, 50% Load)

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.)						
0.084	0.3134	41.92	0%	3.04	No-Load						
0.422	0.5009	48.49	2%/10W	24.33	12.183/1.220	12.066/0.005	3.309/0.249	4.992/0.249	5.157/0.052	17.24	70.85%
0.797	0.5793	14.96	5%	53.09	12.177/3.046	12.071/0.013	3.313/0.622	5.011/0.622	5.149/0.129	43.08	81.14%
0.886	0.9870	10.61	10%	100.52	12.170/6.091	12.058/0.026	3.312/1.242	5.010/1.242	5.134/0.258	86.09	85.64%
1.703	0.9833	13.43	20%	192.59	12.156/12.182	12.045/0.052	3.307/2.486	5.016/2.485	5.107/0.516	172.02	89.32%
4.134	0.9952	7.02	50%	473.11	12.117/30.453	12.021/0.129	3.293/6.217	4.995/6.217	5.019/1.290	428.50	90.57%
8.458	0.9987	3.87	100%	971.29	12.029/60.903	12.081/0.258	3.258/12.433	4.952/12.434	4.872/2.580	850.21	87.53%

Note: Efficiency data was obtained from Sample 1 (Serial Number: 018EUS4420000019)

I _{RMS} (A)	PF	I _{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Standby Efficiency
					5VSB			
0.022	0.0270	7.05	0mA	0.07	Vampire Load			
0.029	0.1106	39.87	45mA	0.37	5.148/0.045		0.23	62.30%
0.036	0.1520	56.60	90mA	0.63	5.146/0.090		0.46	73.62%
0.079	0.3597	85.79	550mA	3.26	5.118/0.550		2.82	86.44%
0.121	0.4223	86.86	1A	5.88	5.091/1.000		5.09	86.57%
0.171	0.4472	86.47	1.5A	8.81	5.061/1.500		7.59	86.16%
0.320	0.4806	85.55	3A	17.79	4.968/3.003		14.92	83.83%

Note: Standby efficiency data was obtained from Sample 2 (Serial Number: 018EUS4421000050)



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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