

80 PLUS Verification and Testing Report

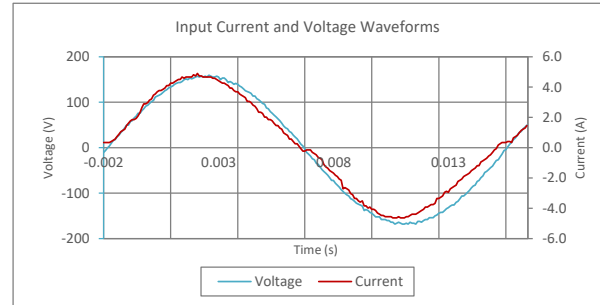
TYPICAL EFFICIENCY (50% Load):	91.60%
AVERAGE EFFICIENCY :	90.09%
80 PLUS COMPLIANT:	YES



ID Number	6249
Manufacturer	be quiet
Model Number	L11-FM-650W
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	12/17/20

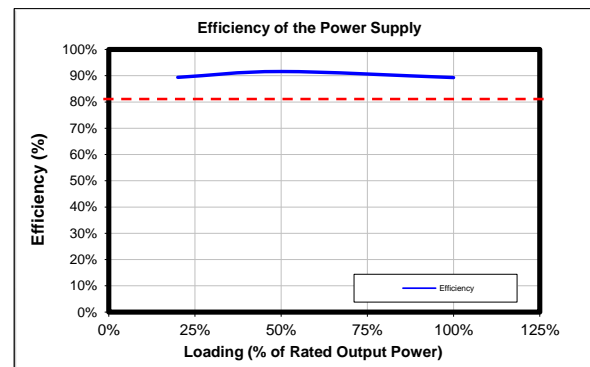
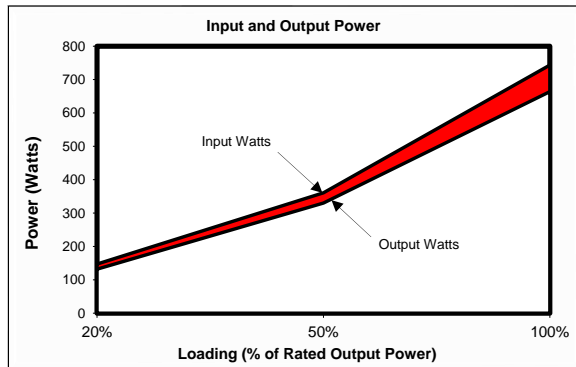
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (THD = 8.08%, 50% Load)

I _{RMS}	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		
0.69	0.97	8.25%	10%	77.56	12.05/4.48	11.82/0.02	3.34/1.19	5.09/1.19	5.09/0.25	65.52	84.48%
1.30	0.99	8.15%	20%	147.55	12.12/8.96	11.81/0.05	3.37/2.38	5.13/2.37	5.12/0.49	131.88	89.38%
3.16	0.99	8.08%	50%	360.70	12.07/22.44	11.79/0.12	3.47/5.97	5.24/5.91	5.21/1.24	330.42	91.60%
6.49	1.00	6.67%	100%	743.50	12.05/44.84	11.77/0.25	3.64/11.94	5.4/11.8	5.36/2.47	663.95	89.30%



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.
<http://www.80plus.org/>

