

80 PLUS Verification and Testing Report

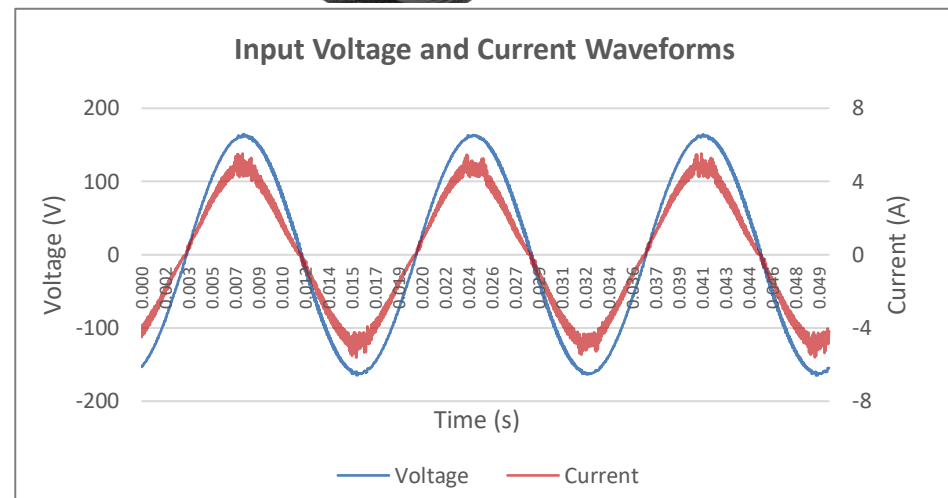
TYPICAL EFFICIENCY (50% Load):	89.10%
AVERAGE EFFICIENCY :	85.03%
80 PLUS COMPLIANT:	Silver



ID Number	7190
Manufacturer	Thermaltake
Model Number	SMART BM3 650W
Serial Number	PSSPD0650MNFABA3PFCH00003
Year	2023
Type	ATX12V
Test Date	10/16/23

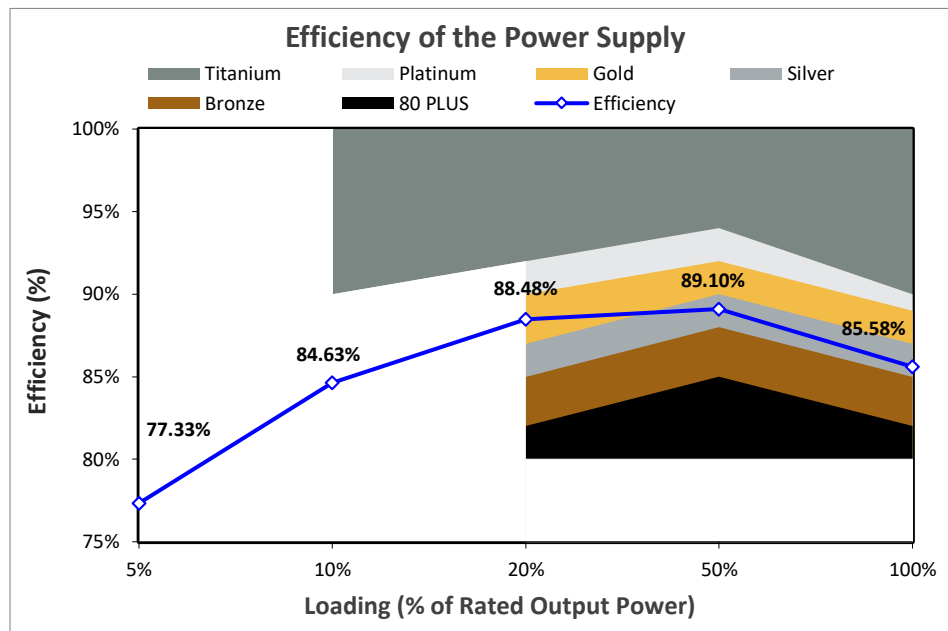
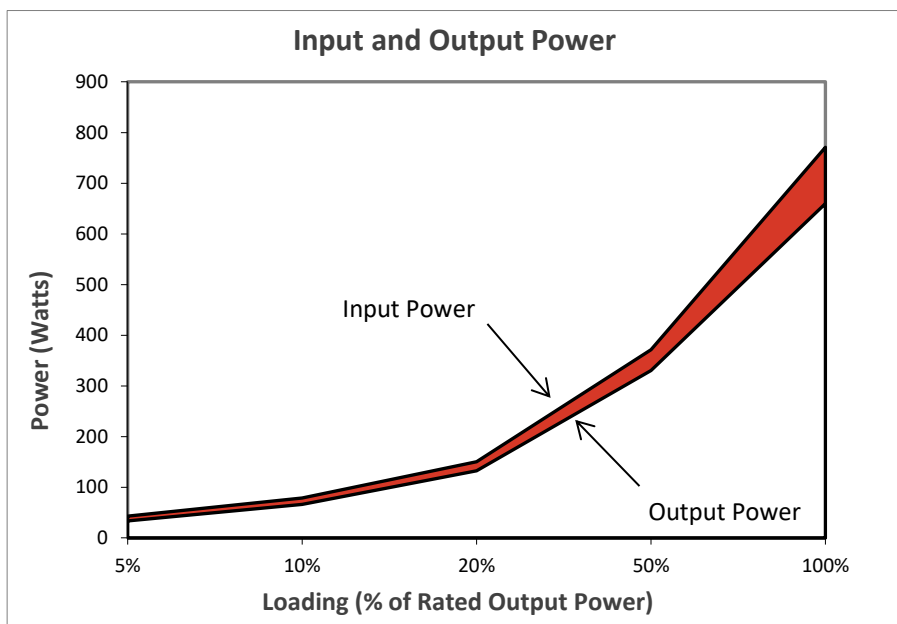
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	15-6	Amps
Input Frequency	50/60	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 6.7%, 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	5Vstb		
0.154	0.6244	28.86	0%	11.05	No-Load						
0.403	0.9240	12.09	5%	42.83	12.22/2.26	11.67/0.013	3.37/0.55	5.12/0.55	5.15/0.125	33.12	77.33%
0.702	0.9692	7.87	10%	78.26	12.22/4.52	11.66/0.025	3.36/1.11	5.12/1.11	5.15/0.25	66.24	84.63%
1.316	0.9889	4.63	20%	149.67	12.22/9.05	11.61/0.05	3.36/2.21	5.11/2.21	5.13/0.501	132.42	88.48%
3.242	0.9943	6.70	50%	370.80	12.21/22.62	11.6/0.125	3.33/5.53	5.09/5.53	5.08/1.252	330.38	89.10%
6.722	0.9970	5.14	100%	770.68	12.21/45.23	11.7/0.25	3.28/11.06	5.04/11.06	5/2.502	659.59	85.58%



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/>