

80 PLUS Verification and Testing Report

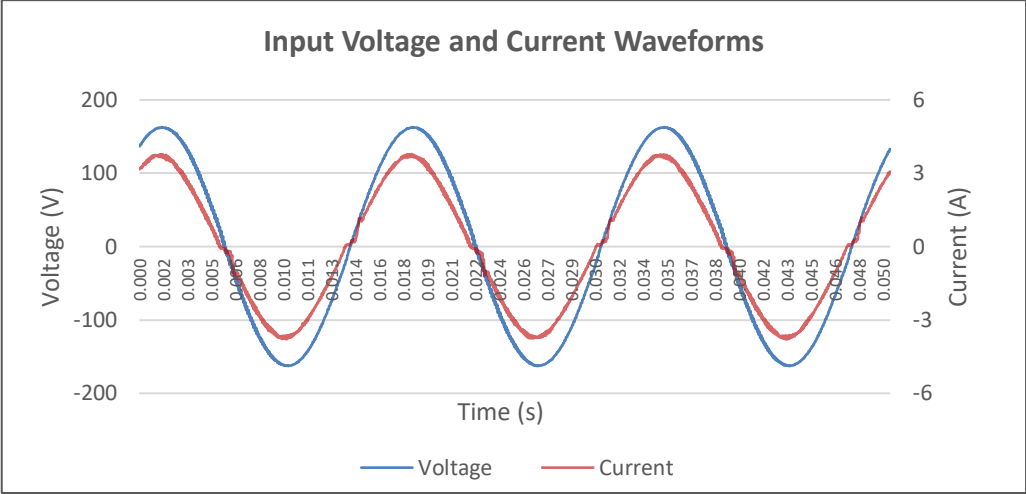
TYPICAL EFFICIENCY (50% Load):	87.38%
AVERAGE EFFICIENCY :	81.94%
80 PLUS COMPLIANT:	Bronze



ID Number	7427
Manufacturer	Thermaltake
Model Number	SMART BX2 500W
Serial Number	N/A
Type	ATX12V
Test Date	5/30/24

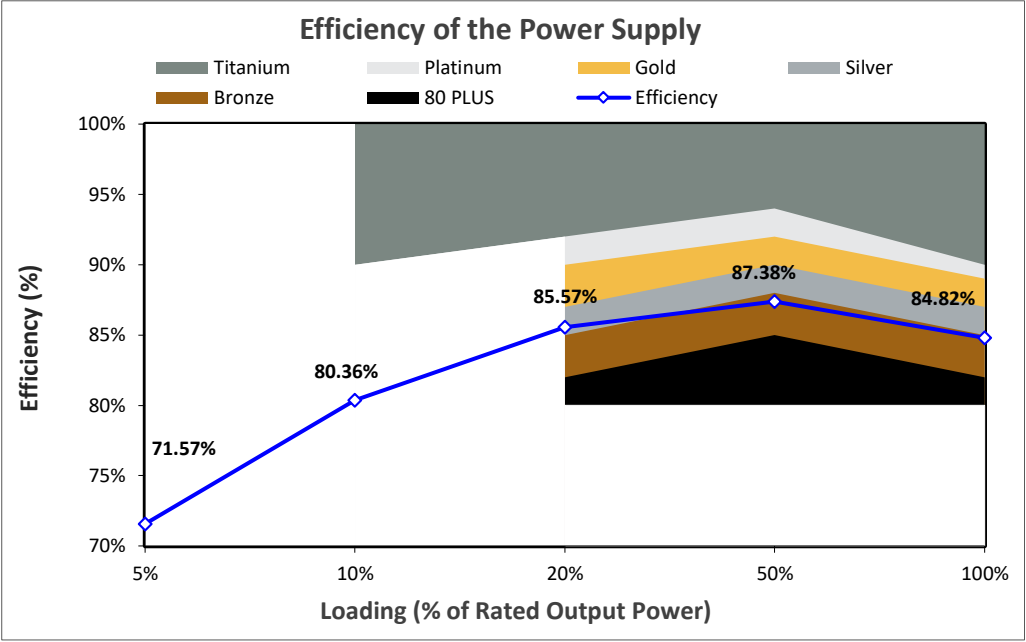
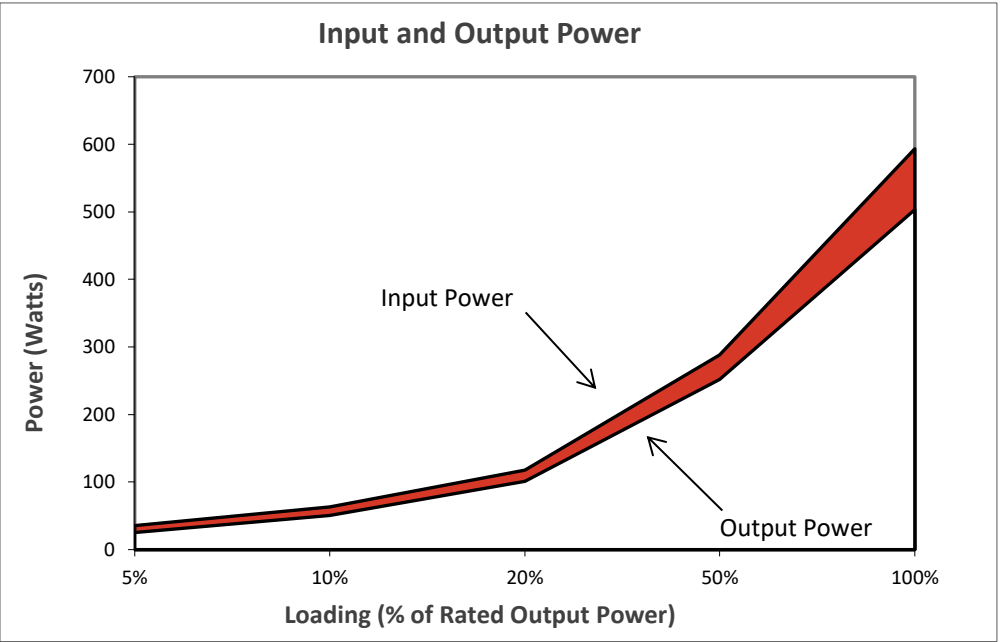
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12	Amps
Input Frequency	50-60	Hz
Rated Output Power	500	Watts

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



Input AC Current Waveform (ITHD = 5.65%, 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		
0.089	0.5888	21.22	0%	6.02	No-Load						
0.324	0.9455	17.21	5%	35.26	12.08/1.69	11.98/0.012	3.36/0.49	5.12/0.49	5.14/0.102	25.23	71.57%
0.559	0.9764	11.56	10%	62.80	12.08/3.38	12.03/0.024	3.36/0.98	5.11/0.98	5.14/0.203	50.47	80.36%
1.034	0.9920	7.50	20%	117.89	12.08/6.76	12.1/0.049	3.35/1.96	5.11/1.96	5.12/0.406	100.88	85.57%
2.519	0.9957	5.65	50%	288.35	12.08/16.9	12.3/0.122	3.33/4.9	5.09/4.9	5.07/1.016	251.96	87.38%
5.170	0.9979	4.23	100%	593.39	12.08/33.81	12.65/0.244	3.29/9.79	5.06/9.79	4.98/2.031	503.30	84.82%



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/>