

80 PLUS Verification and Testing Report

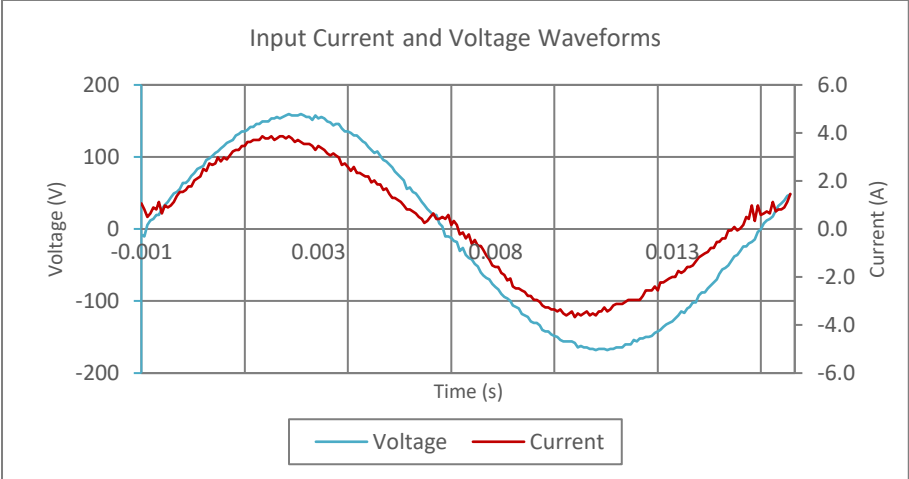
TYPICAL EFFICIENCY (50% Load):	90.81%
AVERAGE EFFICIENCY :	89.27%
80 PLUS COMPLIANT:	YES



ID Number	5282
Manufacturer	Thermaltake Technology Co., Ltd.
Model Number	SP-500AH2NCG Toughpower GX1 500W
Serial Number	PSTPD0500NNFAGT1LD000048
Year	2018
Type	ATX12V,EPS12V,PS2
Test Date	4/20/18

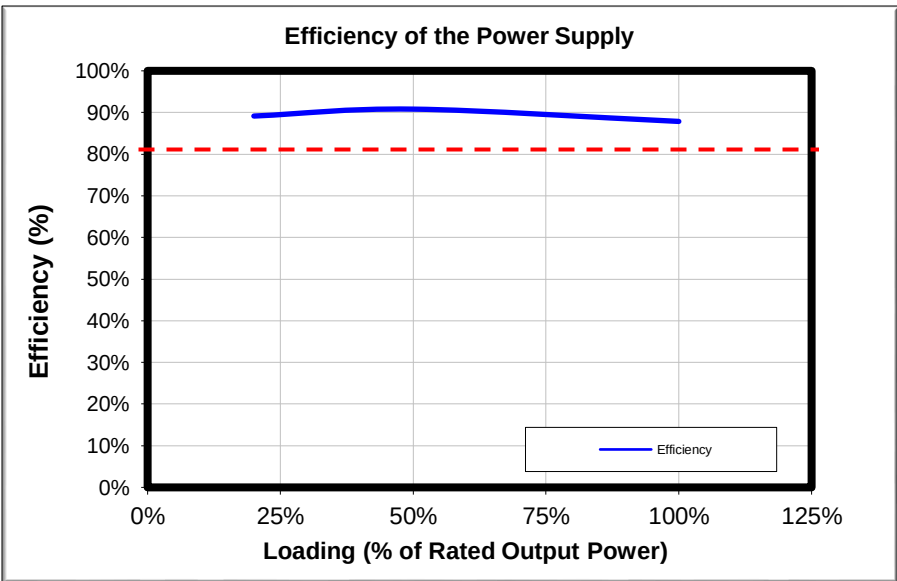
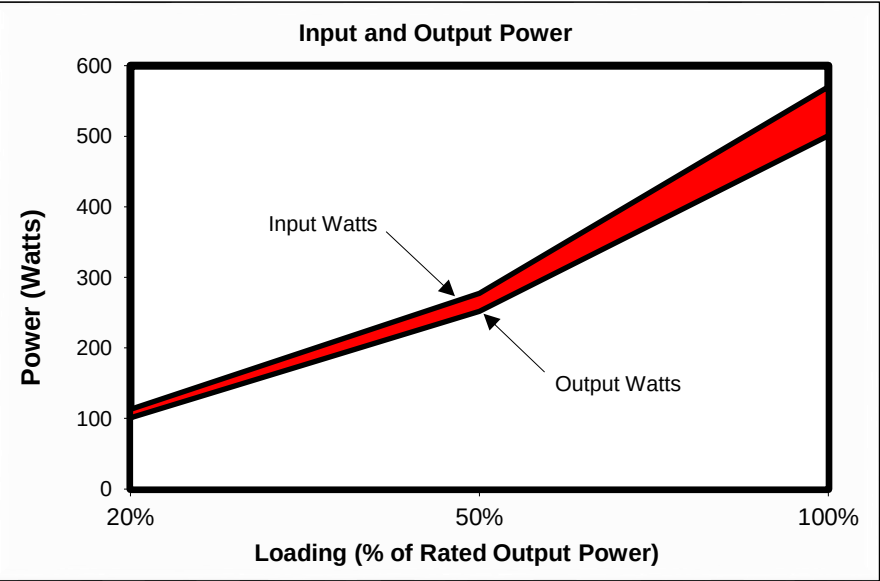
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	47-63	Hz
Rated Output Power	500	Watts

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



Input AC Current Waveform (ITHD = 9.95%, 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		
0.57	0.90	12.02%	10%	59.70	12.05/3.38	11.68/0.02	3.39/0.99	5.07/0.99	5.08/0.21	50.38	84.38%
1.02	0.96	12.14%	20%	113.07	12.04/6.76	11.63/0.05	3.38/1.98	5.07/1.97	5.07/0.41	100.80	89.15%
2.44	0.99	9.95%	50%	277.10	12.03/16.94	11.7/0.12	3.35/4.95	5.04/4.91	5.04/1.03	251.63	90.81%
5.02	0.99	11.85%	100%	570.00	11.99/33.83	12.03/0.25	3.3/9.92	5/9.82	5/2.06	500.76	87.85%



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/>

