

80 PLUS Verification and Testing Report

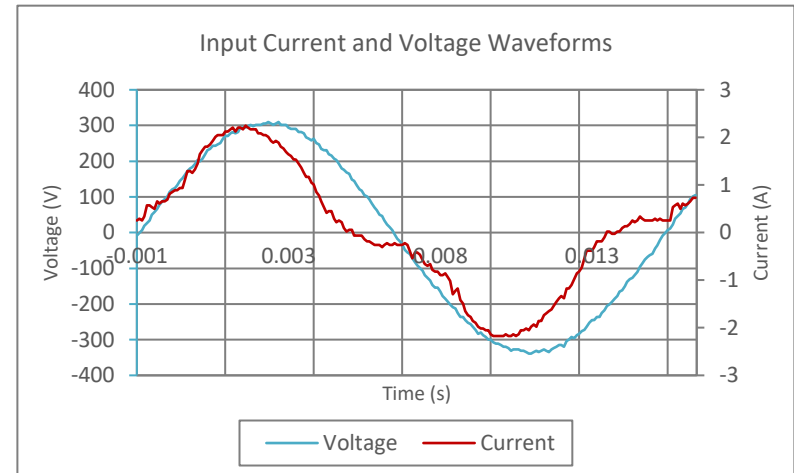
TYPICAL EFFICIENCY (50% Load):	90.32%
AVERAGE EFFICIENCY :	88.62%
80 PLUS COMPLIANT:	YES



ID Number	SO-1764
Manufacturer	SilverStone Technology Co., Ltd.
Model Number	SST-GM500-S
Serial Number	N/A
Year	2020
Type	1U
Test Date	09/14/20

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	47-63	Hz
Rated Output Power	500	Watts

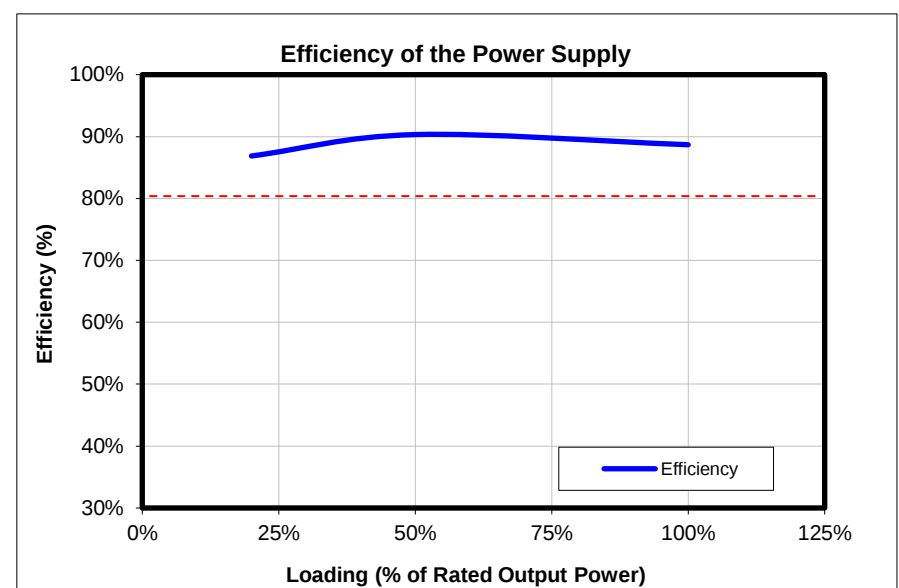
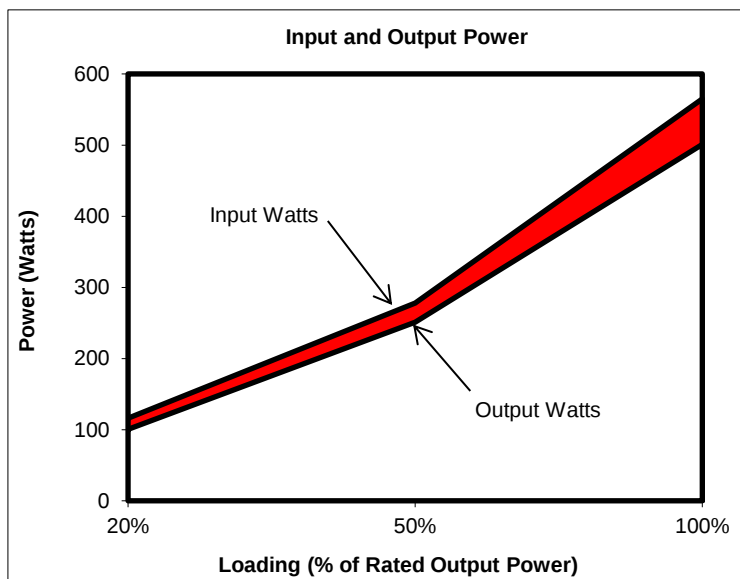
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 26.06%, 50% Load)

I_{RMS}	PF	I_{THD}	Load	Fraction of Load	Input Watts	External Fan (W)*	DC Terminal Voltage (V)/ DC Load Current (A)			Output Watts	Efficiency
							12V	5Vsb	-12V		
0.42	0.66	49.05%	10%	Low	63	2.64	12.04/3.96	5.12/0.34	11.99/0.08	50	80.22%
0.66	0.77	51.96%	20%	Light	116	2.64	12.04/7.92	5.09/0.68	11.97/0.15	101	86.86%
1.31	0.99	26.06%	50%	Typical	278	2.64	12.02/19.79	5.02/1.7	11.93/0.39	251	90.32%
2.53	0.97	14.99%	100%	Full	565	2.64	12/39.59	4.91/3.39	11.87/0.78	501	88.68%

* Fan power is not included in the efficiency calculations



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/>

