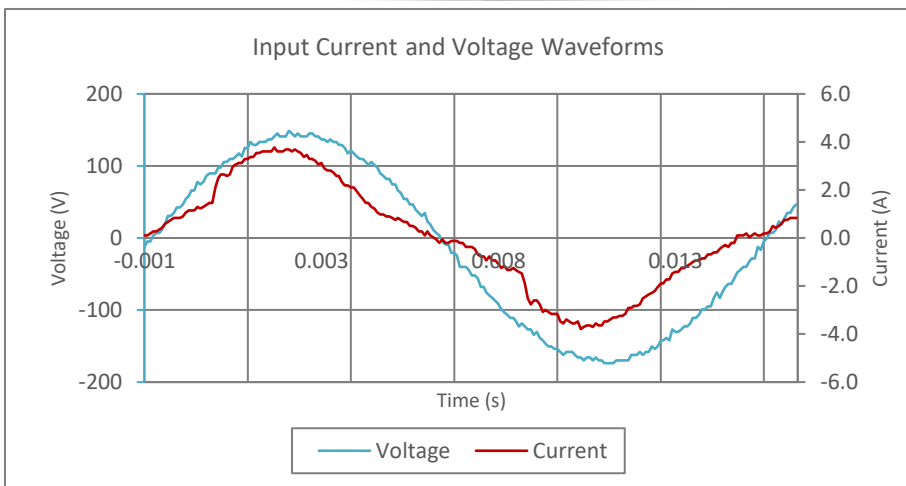


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	92.65%
AVERAGE EFFICIENCY :	91.55%
80 PLUS COMPLIANT:	YES



ID Number	5553
Manufacturer	Sea Sonic Electronics Co., Ltd
Model Number	SSR-450PL
Serial Number	N/A
Year	2019
Type	ATX12V, EPS12V
Test Date	5/2/19

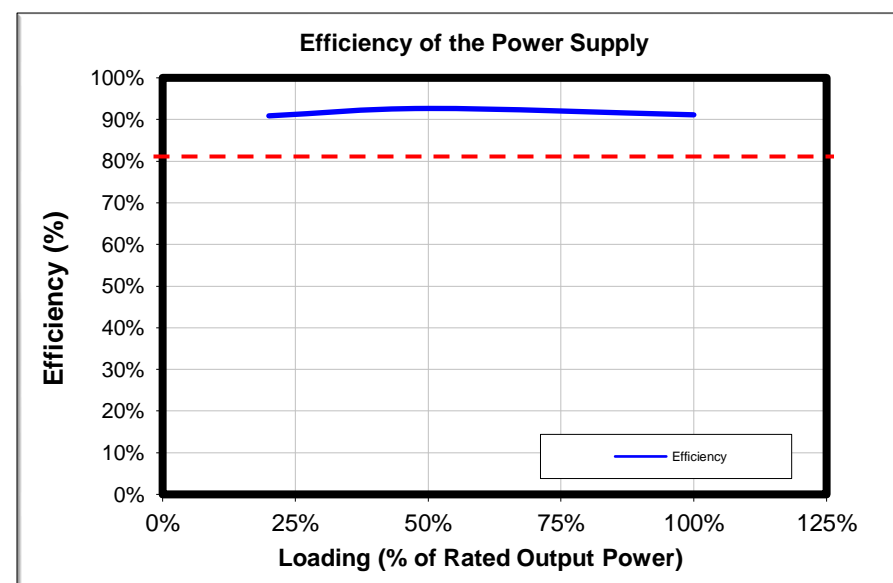
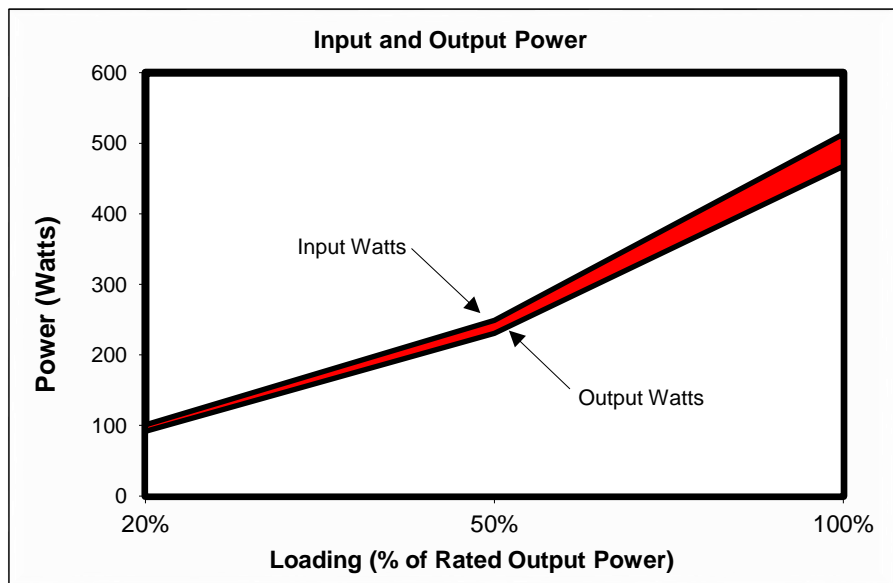


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	6.5-3.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	450	Watts

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

Input AC Current Waveform (ITHD = 21.38%, 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		
0.49	0.94	21.97%	10%	52.81	12.13/2.98	12.17/0.02	3.33/0.97	5.01/0.97	5.12/0.2	45.45	86.07%
0.91	0.97	20.12%	20%	100.66	12.17/5.97	12.15/0.05	3.34/1.94	5.01/1.93	5.11/0.4	91.47	90.87%
2.23	0.97	21.38%	50%	249.00	12.29/14.94	12.16/0.12	3.41/4.84	5.01/4.8	5.06/1	230.71	92.65%
4.56	0.98	17.87%	100%	512.90	12.5/29.85	12.57/0.24	3.43/9.69	5/9.59	5/2.01	467.35	91.12%



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/>

