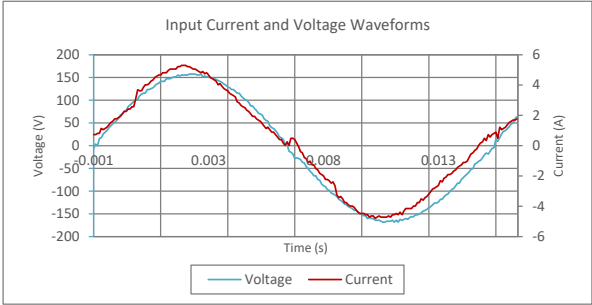


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	90.43%
AVERAGE EFFICIENCY :	89.27%
80 PLUS COMPLIANT:	YES



ID Number	4945
Manufacturer	Sea Sonic Electronics Co. Ltd.
Model Number	SSR-650FX
Serial Number	N/A
Year	2017
Type	ATX12V, EPS12V
Test Date	5/17/17

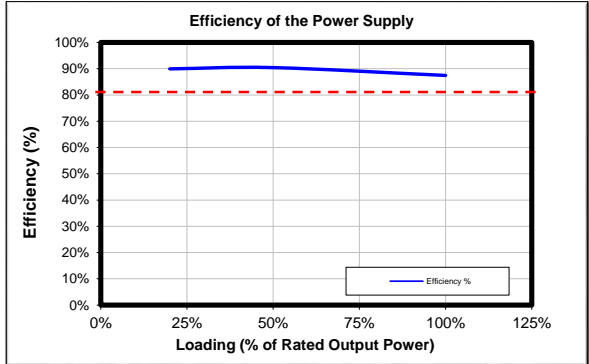
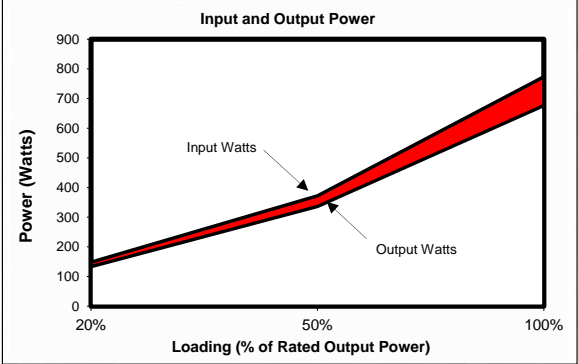


Input AC Current Waveform (ITHD = 10.18%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9-4.5	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.

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.)						
0.72	0.93	8.43%	10%	77.10	12.22/4.59	-12V	3.3V	5V	5Vsb	66.21	85.87%
1.33	0.97	8.92%	20%	148.20	12.28/9.2	12.2/0.05	3.31/2.04	5.04/2.03	5.1/0.51	133.29	89.94%
3.27	0.99	10.18%	50%	371.80	12.43/22.99	12.46/0.13	3.29/5.12	5.04/5.07	5.06/1.27	336.21	90.43%
6.78	0.99	10.20%	100%	773.60	12.6/45.69	12.81/0.25	3.3/10.23	5.03/10.12	4.99/2.54	676.46	87.44%



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/>

