

80 PLUS Verification and Testing Report

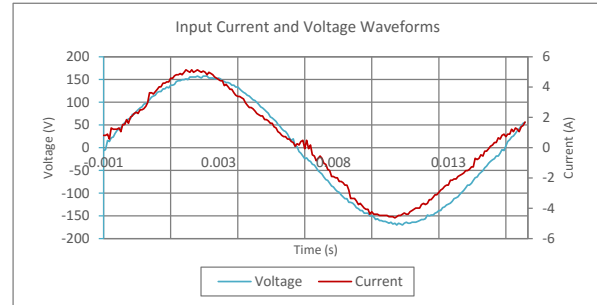
TYPICAL EFFICIENCY (50% Load):	92.00%
AVERAGE EFFICIENCY :	91.19%
80 PLUS COMPLIANT:	YES



ID Number	4982.1
Manufacturer	Sea Sonic Electronics Co., Ltd.
Model Number	SSR-650PD2 Active PFC F3
Serial Number	N/A
Year	2017
Type	ATX12V, EPS12V
Test Date	6/28/17

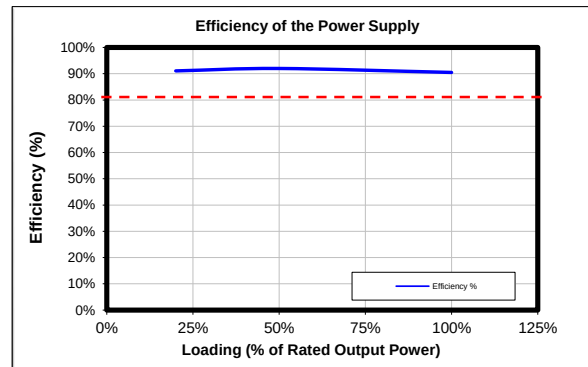
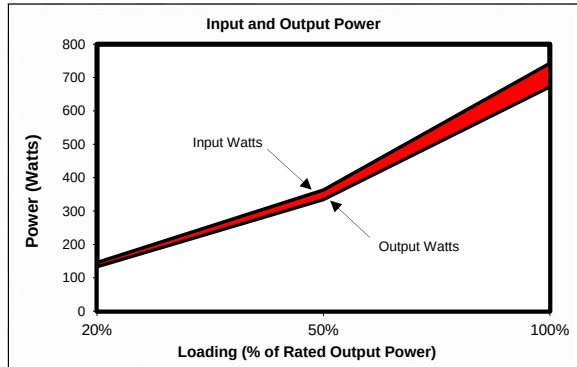
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9-4.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (THD = 10.93%, 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	5Vsb		
0.89	0.74	10.79%	10%	76.04	12.2/4.59	12.2/0.03	3.33/1.02	5.03/1.02	5.09/0.25	66.13	86.96%
1.41	0.90	10.58%	20%	146.05	12.25/9.2	12.18/0.05	3.33/2.04	5.03/2.03	5.09/0.51	133.02	91.08%
3.27	0.97	10.93%	50%	363.60	12.34/22.99	12.36/0.13	3.33/5.12	5.03/5.07	5.07/1.27	334.51	92.00%
6.55	0.99	10.73%	100%	742.90	12.49/45.69	12.87/0.25	3.34/10.23	5.03/10.12	4.98/2.54	672.23	90.49%



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/>

