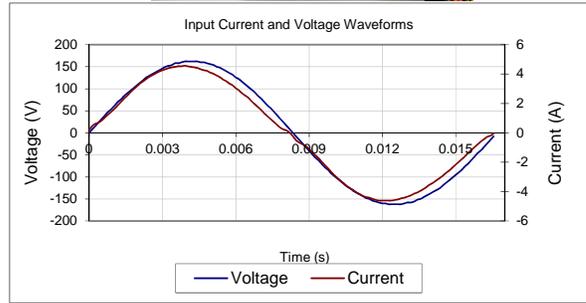


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	90.65%
AVERAGE EFFICIENCY :	89.38%
80 PLUS COMPLIANT:	YES



Ecos ID #	4511
Manufacturer	1STPLAYER TECHNOLOGY (GUANGZHOU)
Model Number	PS-650SP
Serial Number	N/A
Year	2015
Type	ATX12V
Test Date	12/22/15

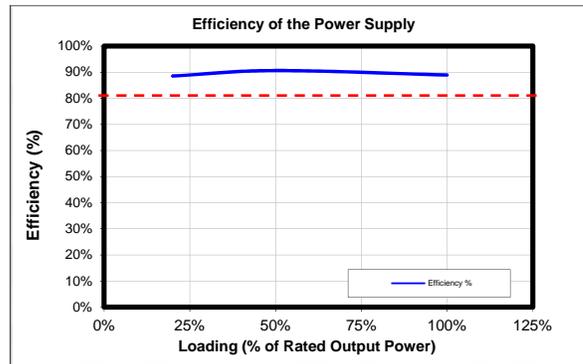
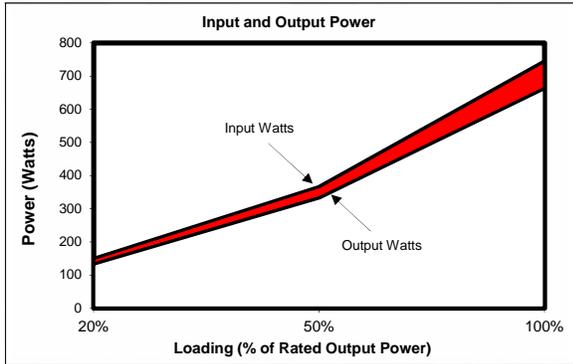


Input AC Current Waveform (ITHD = 5.52%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7.5-15	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.)	-12V	3.3V	5V	5Vsb		
0.73	0.95	17.31%	10%	79.27	12.28/4.57	12.1/0.04	3.37/1.02	5.04/1.02	5.15/0.21	66.20	83.52%
1.33	0.98	8.52%	20%	150.10	12.28/9.17	12.1/0.08	3.37/2.04	5.04/2.03	5.14/0.42	132.90	88.54%
3.21	0.99	5.52%	50%	366.90	12.28/22.97	12.11/0.21	3.35/5.11	5.02/5.07	5.11/1.06	332.59	90.65%
6.51	1.00	6.11%	100%	745.20	12.26/45.84	12.15/0.42	3.33/10.2	5.01/10.14	5.06/2.12	662.73	88.93%



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/>

