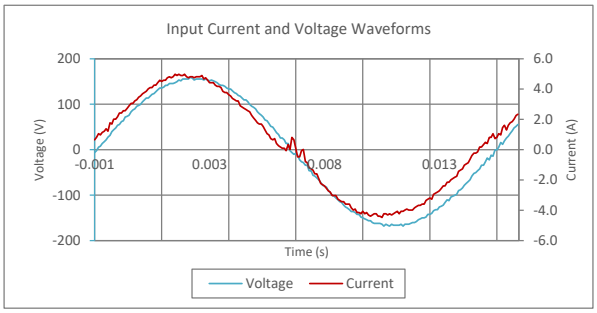
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**90.75%**
AVERAGE EFFICIENCY :	**89.82%**
80 PLUS COMPLIANT:	**YES**

ID Number	5322
Manufacturer	Super Flower Computer Inc.
Model Number	SF-650F14HG
Serial Number	N/A
Year	2018
Type	ATX12V,EPS12V
Test Date	6/27/18

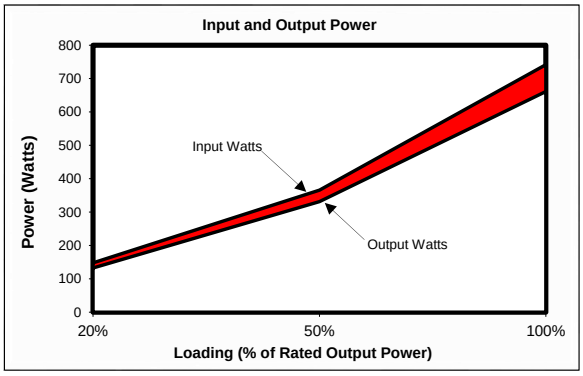
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	60/50	Hz
Rated Output Power	**650**	**Watts**

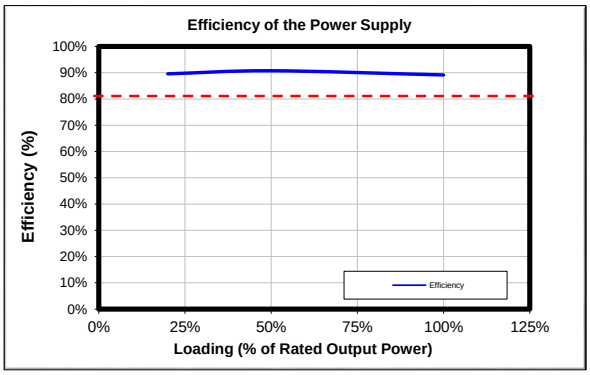
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 6.05%, 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		
0.80	0.84	15.03%	10%	77.33	12.25/4.56	12.01/0.04	3.31/1.02	5.05/1.02	5.08/0.25	66.16	**85.55%**
1.38	0.93	10.20%	20%	148.05	12.24/9.16	12/0.08	3.31/2.03	5.05/2.02	5.07/0.51	132.61	**89.57%**
3.24	0.98	6.05%	50%	365.50	12.23/22.93	11.95/0.21	3.3/5.08	5.05/5.04	5.05/1.27	331.68	**90.75%**
6.52	0.99	6.18%	100%	741.80	12.21/45.83	11.89/0.42	3.29/10.18	5.03/10.07	5.01/2.53	661.30	**89.15%**





PLUG LOAD solutions

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/

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