80 PLUS Verification and Testing Report

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TYPICAL EFFICIENCY (50% Load):	**92.18%**
AVERAGE EFFICIENCY :	**90.87%**
80 PLUS COMPLIANT:	**YES**

ID Number	4906
Manufacturer	SilentiumPC
Model Number	Supremo FM2 Gold 650W
Serial Number	1681703000504
Year	2017
Type	ATX12V, EPS12V
Test Date	3/29/17

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	63-47	Hz
Rated Output Power	**650**	**Watts**

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

Input Current and Voltage Waveforms
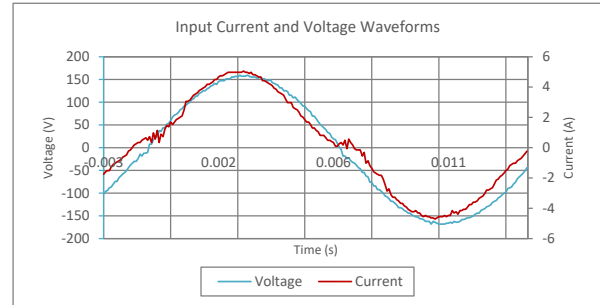
Input AC Current Waveform (ITHD = 13.2%, 50% Load)

$I_{RMS\,A}$ 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		
0.70	0.93	23.39%	10%	74.89	12.21/4.58	11.98/0.03	3.38/1.02	5.1/1.02	5.09/0.25	66.23	88.43%
1.30	0.97	17.55%	20%	143.90	12.18/9.18	11.87/0.05	3.37/2.04	5.08/2.03	5.08/0.51	132.20	91.87%
3.15	0.99	13.20%	50%	357.20	12.12/22.98	11.68/0.13	3.35/5.12	5.05/5.07	5.04/1.27	329.26	92.18%
6.43	0.99	8.53%	100%	735.30	12.04/45.76	11.94/0.25	3.31/10.23	5/10.12	4.96/2.54	651.17	88.56%

Input and Output Power

Efficiency of the Power Supply

PLUG LOAD solutions
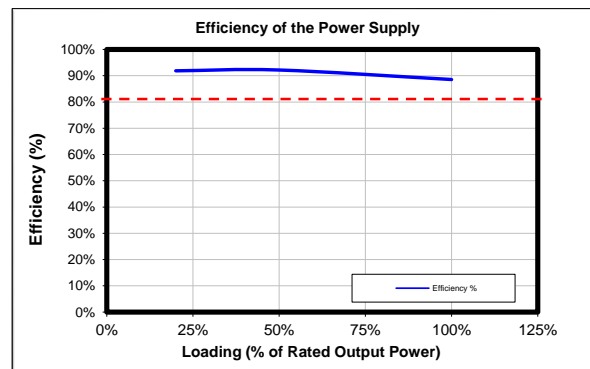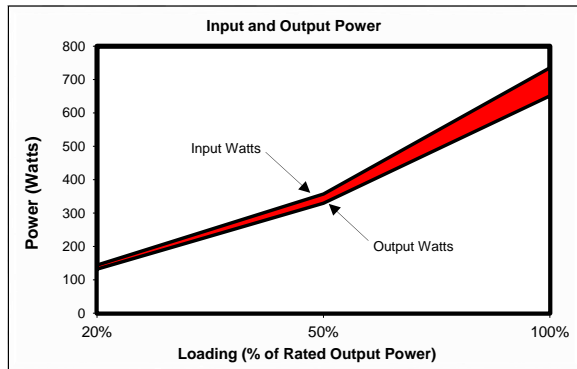
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. *http://www.80plus.org/*