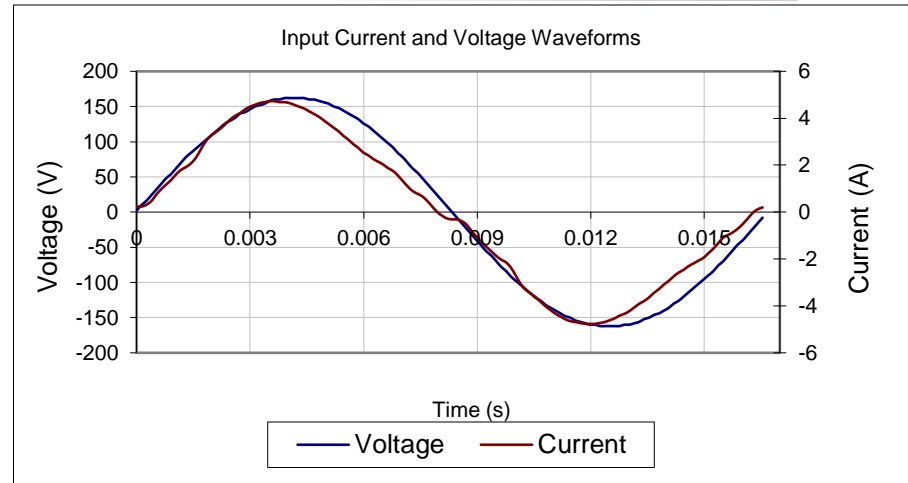


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>91.57%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>89.96%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID #</b>	4399.1
<b>Manufacturer</b>	Sharkoon Technologies
<b>Model Number</b>	WPM650GOLD
<b>Serial Number</b>	N/A
<b>Year</b>	2015
<b>Type</b>	ATX12V
<b>Test Date</b>	7/14/15

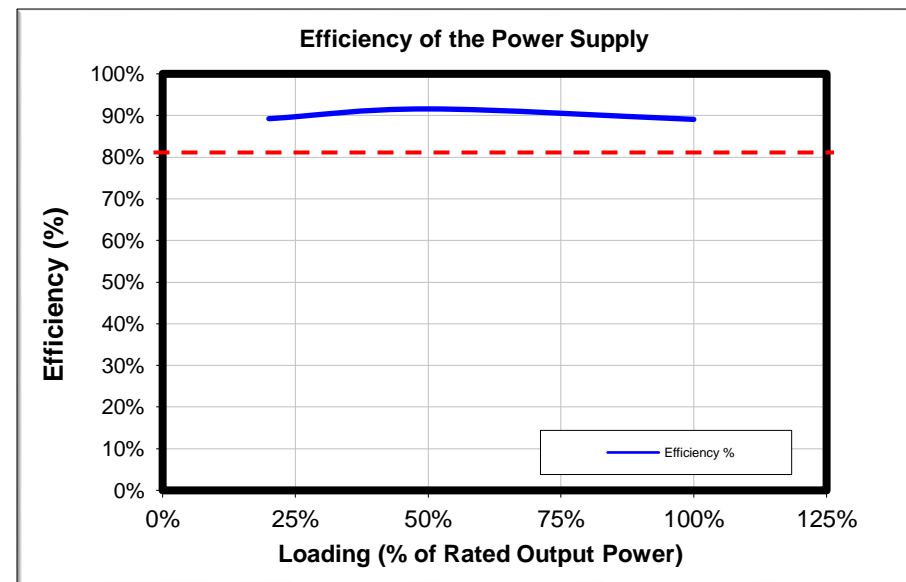
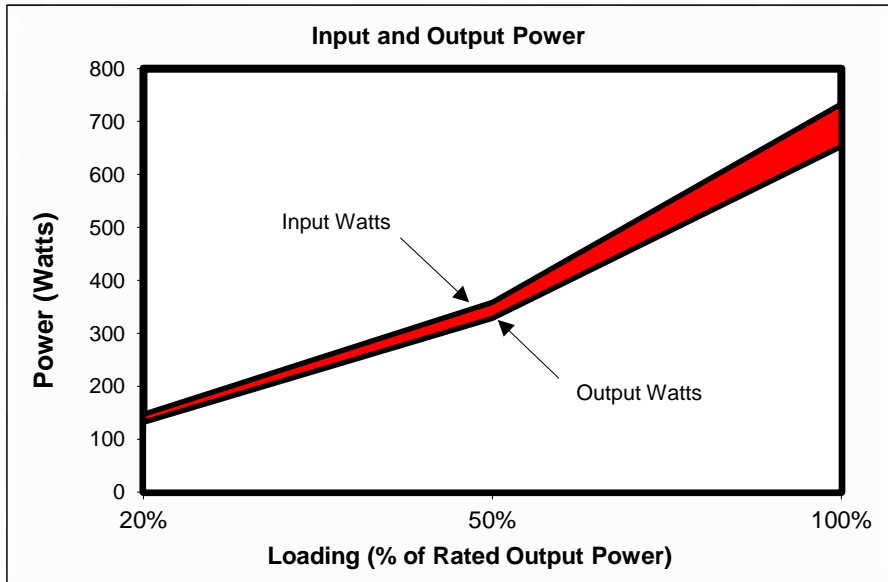


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	47-63	Hz
<b>Rated Output Power</b>	<b>650</b>	<b>Watts</b>

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

Input AC Current Waveform (ITHD = 11.08%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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	0.92	10.71%	10%	77.81	12.08/4.54	11.42/0.03	3.4/1.13	5.1/1.13	5.07/0.21	65.86	84.65%
1.32	0.97	11.03%	20%	147.27	12.07/9.07	11.42/0.05	3.4/2.26	5.09/2.25	5.07/0.43	131.41	89.23%
3.16	0.99	11.08%	50%	358.40	12.06/22.7	11.51/0.13	3.38/5.65	5.08/5.61	5.05/1.07	328.20	91.57%
6.44	0.99	10.66%	100%	733.30	12.03/45.28	11.88/0.26	3.36/11.27	5.07/11.21	5.02/2.13	653.13	89.07%



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/>

