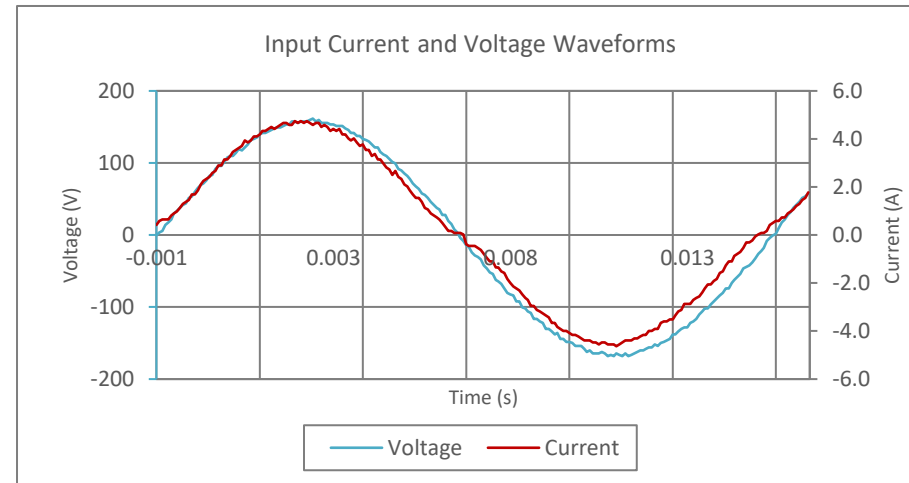


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>90.98%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>89.56%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	5447
<b>Manufacturer</b>	FSP Technology Inc.
<b>Model Number</b>	HG2-650
<b>Serial Number</b>	S8201030040
<b>Year</b>	2018
<b>Type</b>	ATX12V, EPS12V
<b>Test Date</b>	12/12/18

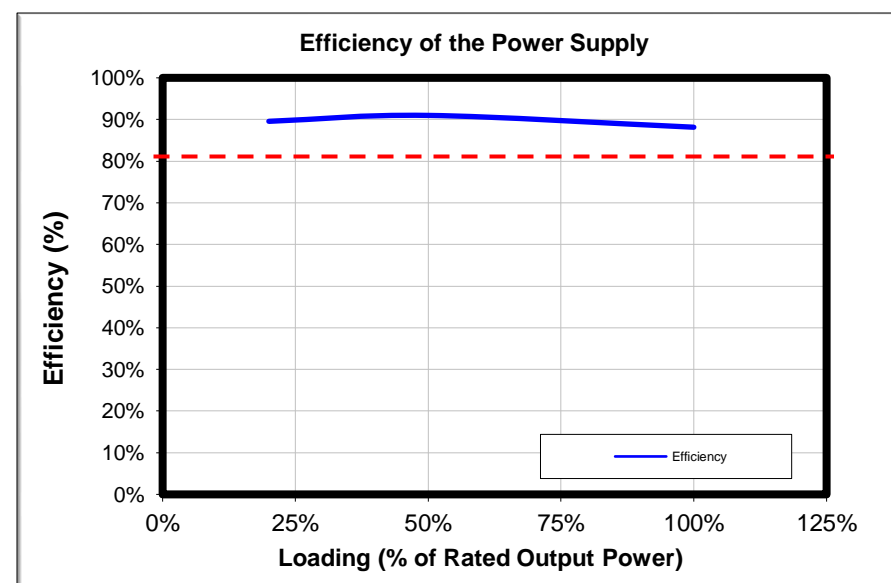
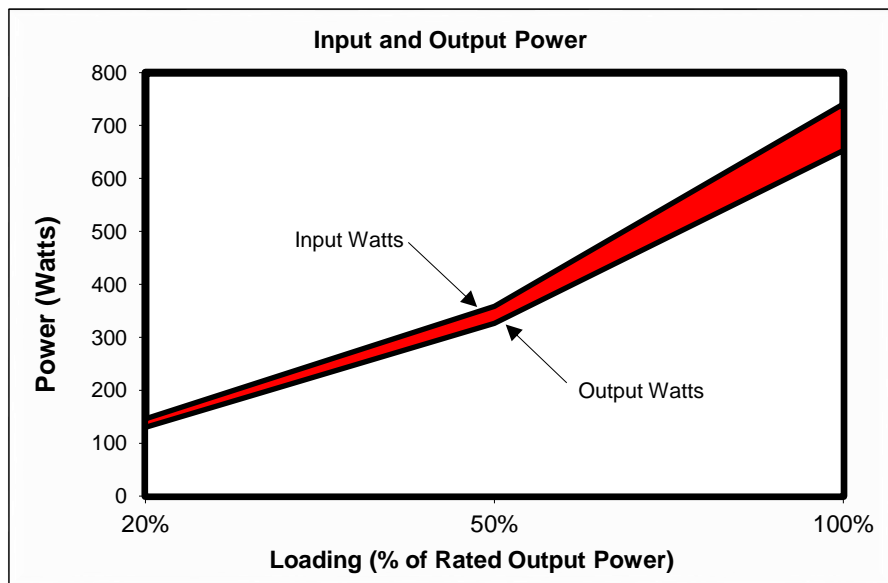


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>650</b>	<b>Watts</b>

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

Input AC Current Waveform (ITHD = 5.9%, 50% Load)

I <sub>RMS</sub>	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
0.68	0.98	14.07%	10%	76.61	12/4.6	12.1/0.03	3.29/1.02	5.09/1.02	4.97/0.21	65.15	85.04%
1.27	0.99	6.27%	20%	145.57	11.98/9.22	12.1/0.05	3.32/2.04	5.12/2.03	4.96/0.42	130.37	89.56%
3.13	1.00	5.90%	50%	358.90	11.96/23.08	12.13/0.13	3.39/5.11	5.19/5.07	4.94/1.06	326.54	90.98%
6.46	1.00	5.30%	100%	740.70	11.92/46.15	12.17/0.25	3.51/10.23	5.3/10.12	4.89/2.12	652.87	88.14%



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/>

