

## 80 PLUS Verification and Testing Report

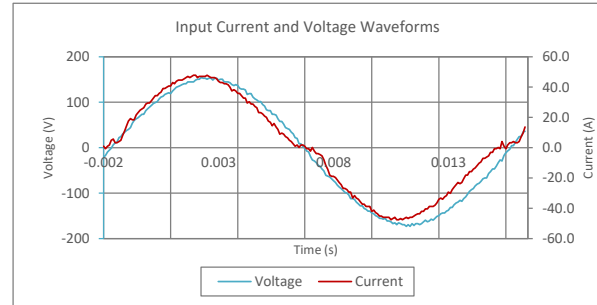
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>90.58%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>89.26%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	6017
<b>Manufacturer</b>	Segotep Electronic Technology Co., Ltd.
<b>Model Number</b>	SG-650G-SFX
<b>Serial Number</b>	N/A
<b>Year</b>	2020
<b>Type</b>	SFX
<b>Test Date</b>	7/15/20

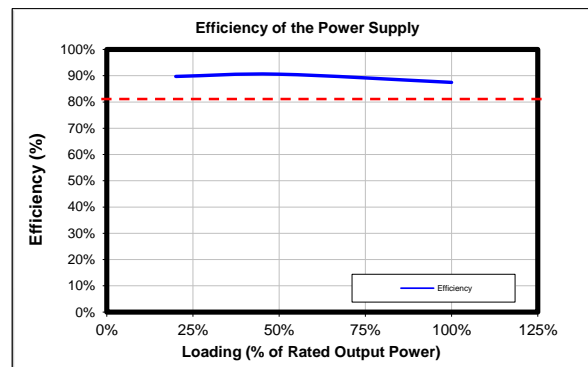
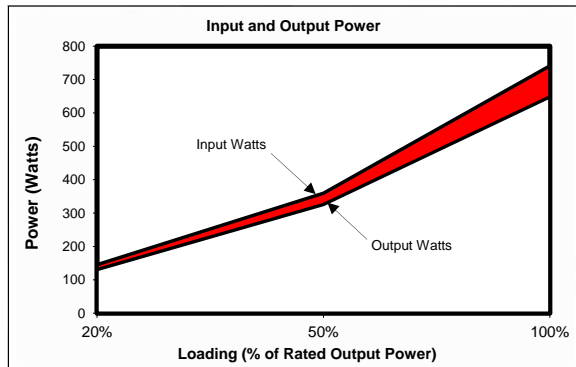
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	47-63	Hz
<b>Rated Output Power</b>	<b>650</b>	<b>Watts</b>

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



Input AC Current Waveform (THD = 9.63%, 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		
0.69	0.97	16.47%	10%	76.15	12.01/4.59	12.1/0.03	3.3/1.09	5.04/1.02	5.04/0.21	65.31	85.77%
1.30	0.97	13.98%	20%	145.44	12/9.19	12.11/0.05	3.3/2.19	5.03/2.04	5.03/0.42	130.49	89.72%
3.16	0.99	9.63%	50%	359.70	11.96/23	12.11/0.13	3.33/5.46	5.03/5.08	5.01/1.06	325.81	90.58%
6.50	0.99	9.13%	100%	741.40	11.89/45.93	12.11/0.25	3.43/10.94	5.1/10.14	5.03/2.12	648.47	87.47%



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/>

