

# 80 PLUS Verification and Testing Report

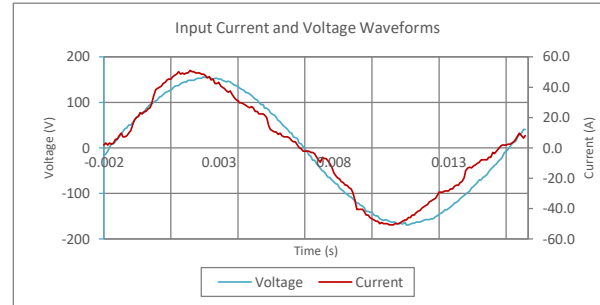
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>90.41%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>89.27%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	5941
<b>Manufacturer</b>	Channel Well
<b>Model Number</b>	GPX650S
<b>Serial Number</b>	N/A
<b>Year</b>	2020
<b>Type</b>	ATX12V
<b>Test Date</b>	4/15/20

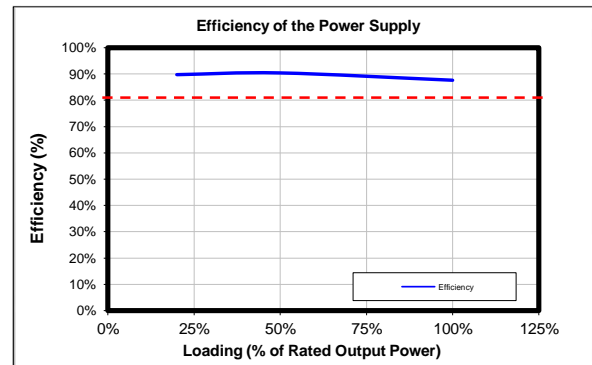
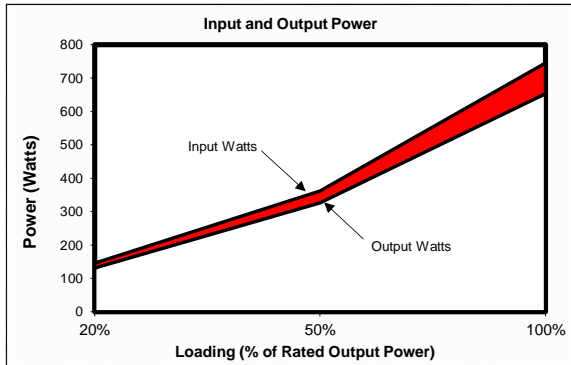
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	47-63	Hz
<b>Rated Output Power</b>	<b>650</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 15.82%, 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	0.95	18.72%	10%	75.75	12.03/4.59	11.5/0.03	3.35/1.02	5.05/1.02	5.09/0.21	65.19	86.06%
1.30	0.97	17.29%	20%	145.84	12.03/9.23	11.46/0.05	3.34/2.05	5.05/2.04	5.07/0.43	130.90	89.76%
3.20	0.98	15.82%	50%	361.20	12.01/23.09	11.55/0.13	3.32/5.12	5.04/5.08	5.02/1.06	326.58	90.41%
6.60	0.98	14.01%	100%	745.17	12.03/46.11	11.85/0.26	3.34/10.26	5.01/10.15	4.93/2.13	653.06	87.64%



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/>

