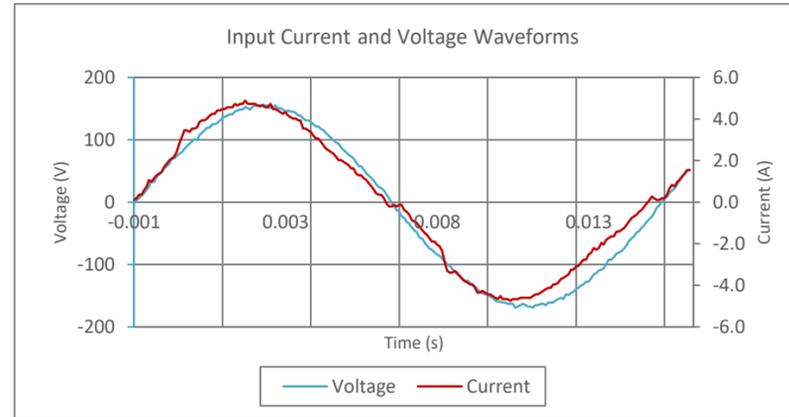


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	91.48%
AVERAGE EFFICIENCY :	90.59%
80 PLUS COMPLIANT:	YES



ID Number	5616
Manufacturer	PCCOOLER
Model Number	GI-P650
Serial Number	N/A
Year	2019
Type	ATX12V
Test Date	7/30/19

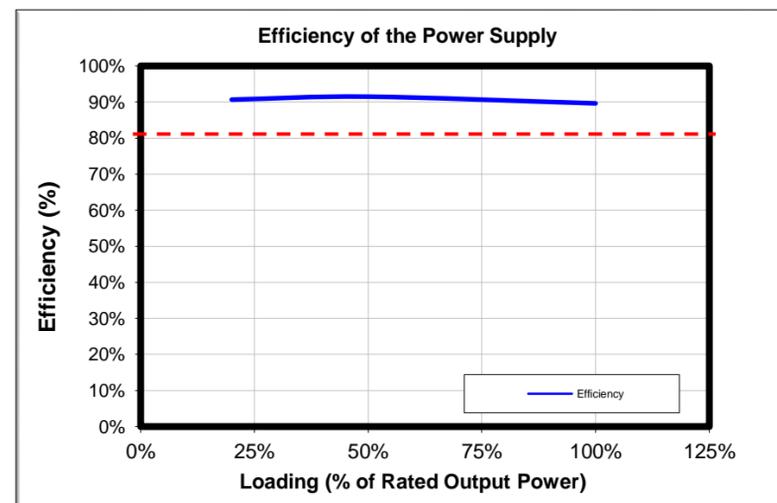
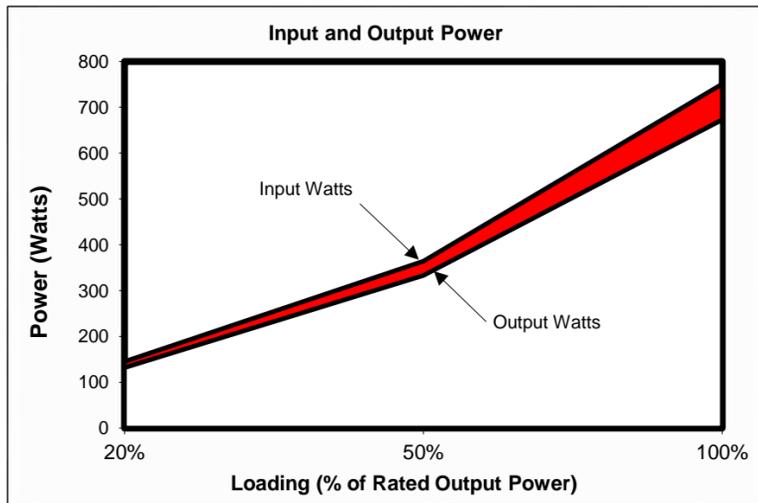


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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

Input AC Current Waveform (ITHD = 9.05%, 50% Load)

I _{RMS}	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		
0.69	0.96	12.78%	10%	76.00	12.1/4.6	12.21/0.03	3.35/1.02	5.06/1.02	5.08/0.25	65.87	86.67%
1.29	0.98	10.29%	20%	145.40	12.14/9.18	12.21/0.05	3.36/2.04	5.07/2.03	5.07/0.51	131.82	90.66%
3.20	0.99	9.05%	50%	364.00	12.25/23.02	12.21/0.13	3.38/5.1	5.07/5.06	5.04/1.27	333.00	91.48%
6.58	0.99	6.27%	100%	750.80	12.42/45.97	12.23/0.25	3.4/10.21	5.07/10.1	4.98/2.54	672.90	89.62%



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/>

