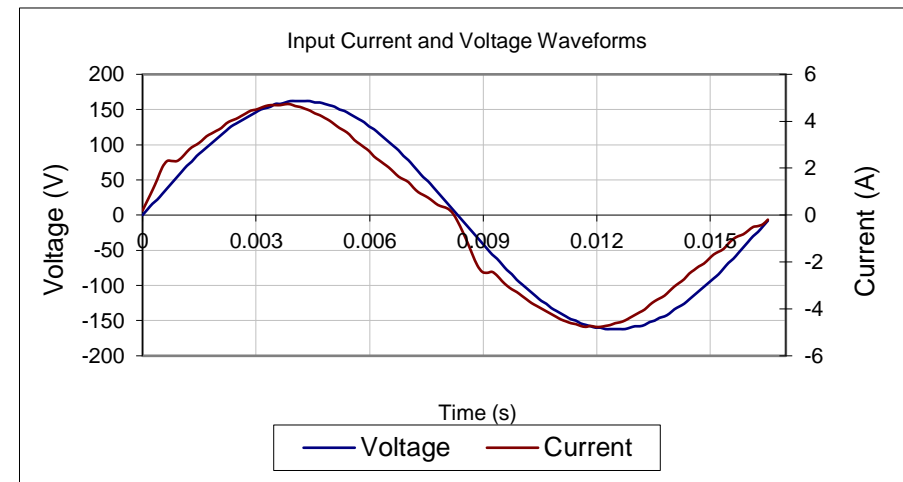


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	86.93%
AVERAGE EFFICIENCY :	85.06%
80 PLUS COMPLIANT:	YES



ID #	4707.6
Manufacturer	MSS TECHNOLOGY CO.,LIMITED
Model Number	GP-650
Serial Number	NA
Year	2016
Type	ATX12V
Test Date	9/12/16

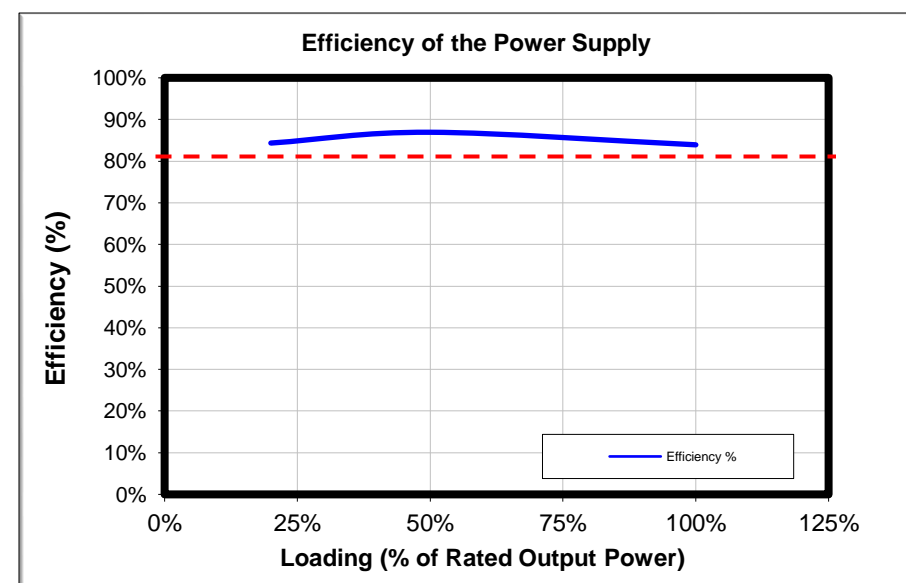
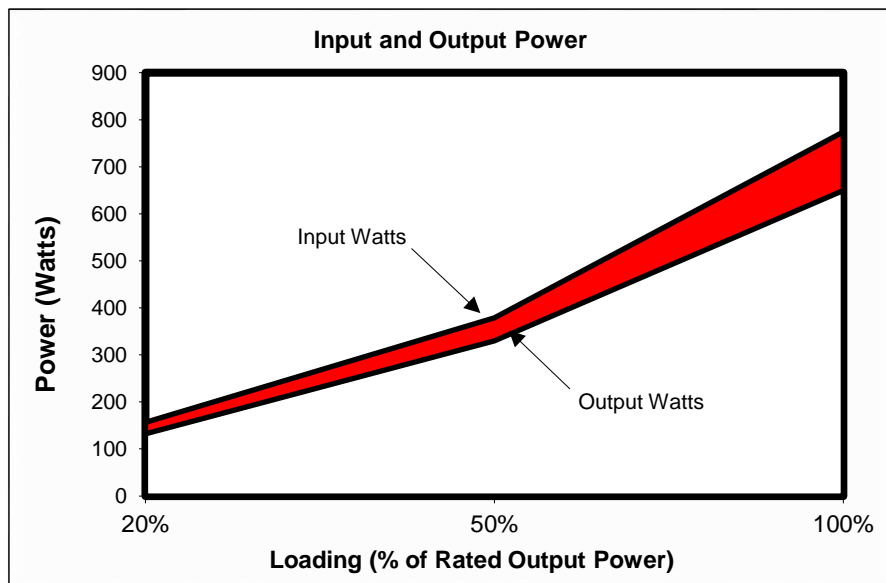


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

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

Input AC Current Waveform (ITHD = 7.46%, 50% Load)

I _{RMS} A	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		
0.94	0.77	25.67%	10%	83.79	12.29/4.33	11.95/0.05	3.3/1.36	5.03/1.36	5.02/0.25	66.34	79.17%
1.47	0.93	18.78%	20%	157.08	12.27/8.66	11.93/0.1	3.3/2.72	5.02/2.7	5/0.49	132.48	84.34%
3.35	0.98	7.46%	50%	379.00	12.22/21.62	11.93/0.25	3.3/6.81	4.98/6.76	4.97/1.23	329.48	86.93%
6.77	0.99	5.62%	100%	774.10	12.13/42.91	11.98/0.49	3.29/13.57	4.92/13.48	4.89/2.46	649.59	83.92%



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/>

