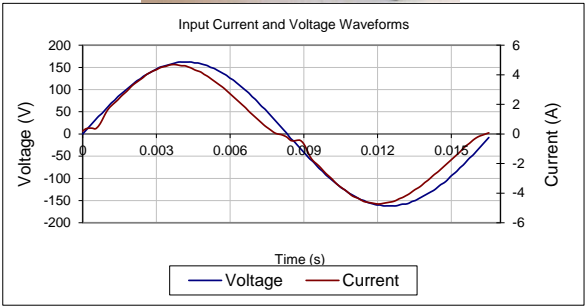


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	90.91%
AVERAGE EFFICIENCY :	89.43%
80 PLUS COMPLIANT:	YES



Ecos ID #	4720
Manufacturer	Enermax Technology Corporation
Model Number	ERV650SWT
Serial Number	NA
Year	2016
Type	SFX
Test Date	9/21/16

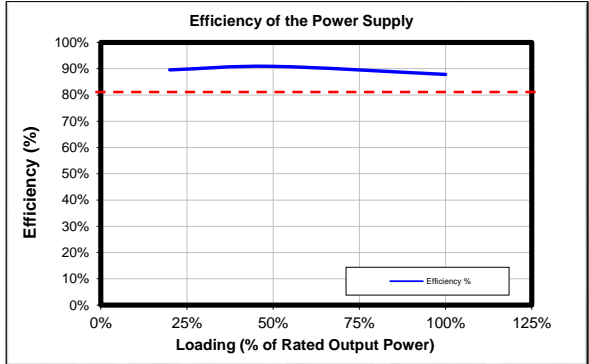
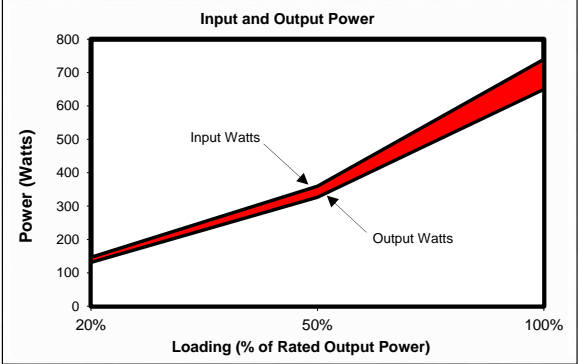


Input AC Current Waveform (ITHD = 11.5%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	47-63	Hz
Rated Output Power	650	Watts

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

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
0.72	0.92	14.30%	10%	76.33	12.1/4.65	11.65/0.03	3.33/1.04	5.06/0.86	5.06/0.26	65.72	86.10%
1.33	0.96	16.31%	20%	146.75	12.08/9.32	11.67/0.05	3.32/2.07	5.06/1.73	5.05/0.52	131.41	89.55%
3.17	0.99	11.50%	50%	359.40	12.05/23.24	11.79/0.13	3.3/5.18	5.04/4.28	5.02/1.29	326.72	90.91%
6.48	0.99	9.90%	100%	739.90	12.03/46.32	12.02/0.26	3.27/10.34	5.01/8.56	4.97/2.58	649.81	87.82%



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/>

