

80 PLUS Verification and Testing Report

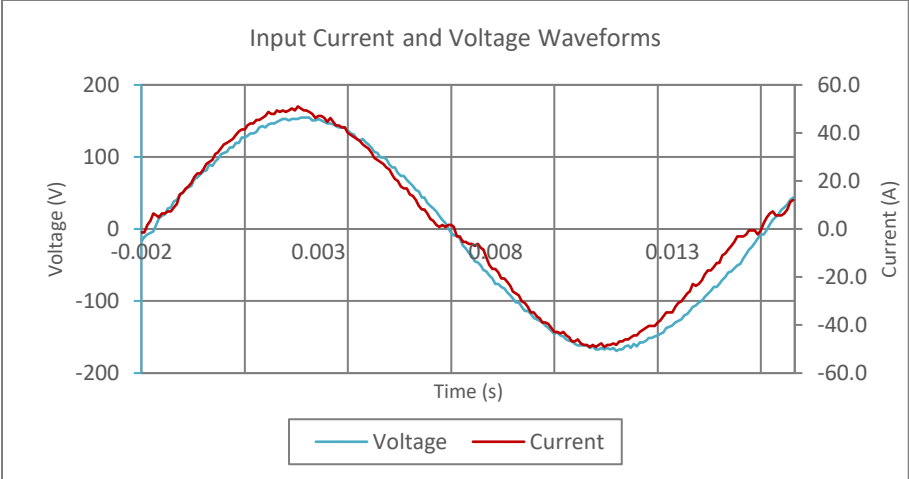
TYPICAL EFFICIENCY (50% Load):	87.17%
AVERAGE EFFICIENCY :	85.91%
80 PLUS COMPLIANT:	YES



ID Number	5980
Manufacturer	TECNOMALL TECHNOLOGY CO., LIMITED
Model Number	EP-650B-RGB
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	6/3/20

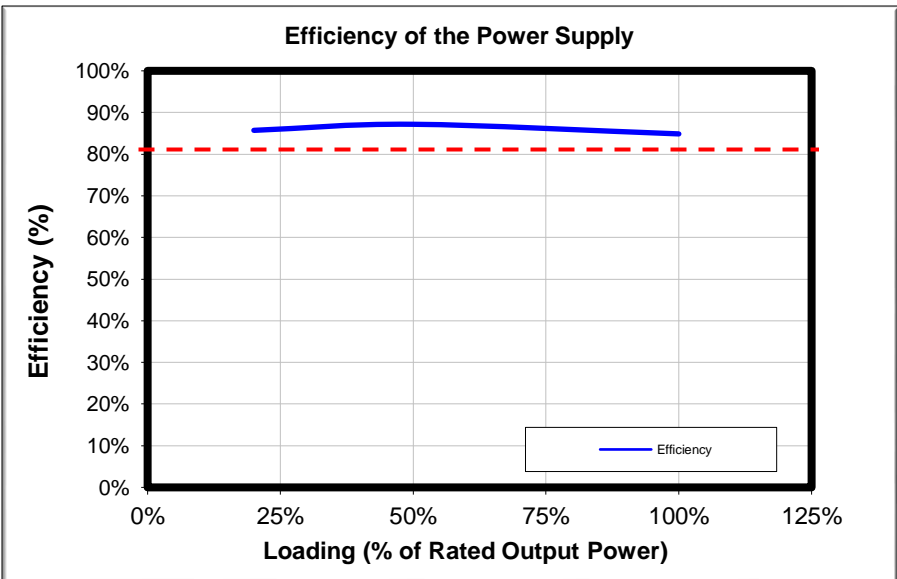
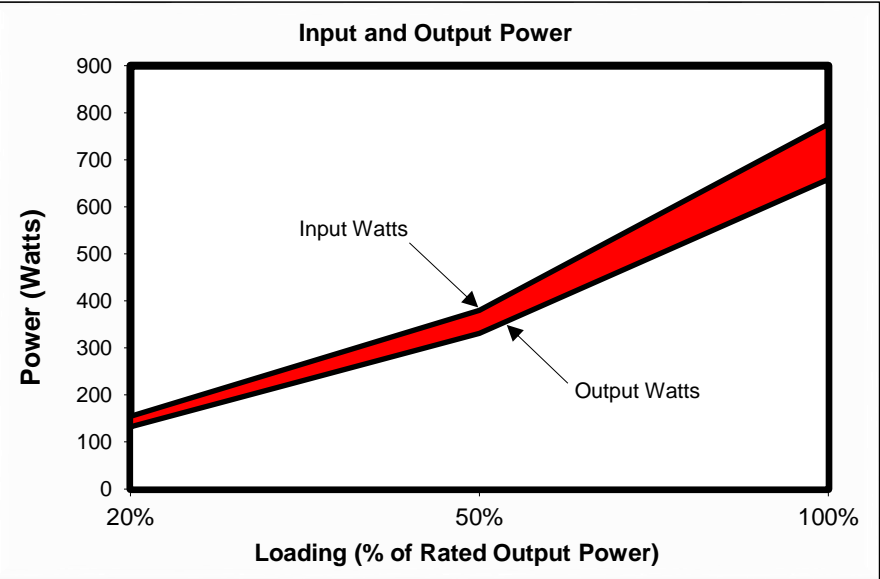
Rated Specifications	Value	Units
Input Voltage	110-220	Volts
Input Current	5-10	Amps
Input Frequency	47/63	Hz
Rated Output Power	650	Watts

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



Input AC Current Waveform (ITHD = 8.31%, 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		
0.78	0.91	13.68%	10%	81.28	12.04/4.43	12/0.03	3.35/1.28	5.2/1.28	5.05/0.22	65.73	80.87%
1.42	0.94	16.58%	20%	154.17	12.14/8.87	12.07/0.05	3.34/2.55	5.16/2.53	5.04/0.44	132.14	85.71%
3.37	0.98	8.31%	50%	379.60	12.17/22.2	12/0.13	3.33/6.39	5.13/6.33	5.02/1.1	330.90	87.17%
6.88	0.98	8.52%	100%	775.90	12.13/44.33	11.98/0.26	3.29/12.79	5.08/12.64	4.98/2.21	658.43	84.86%



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/>

