

80 PLUS Verification and Testing Report

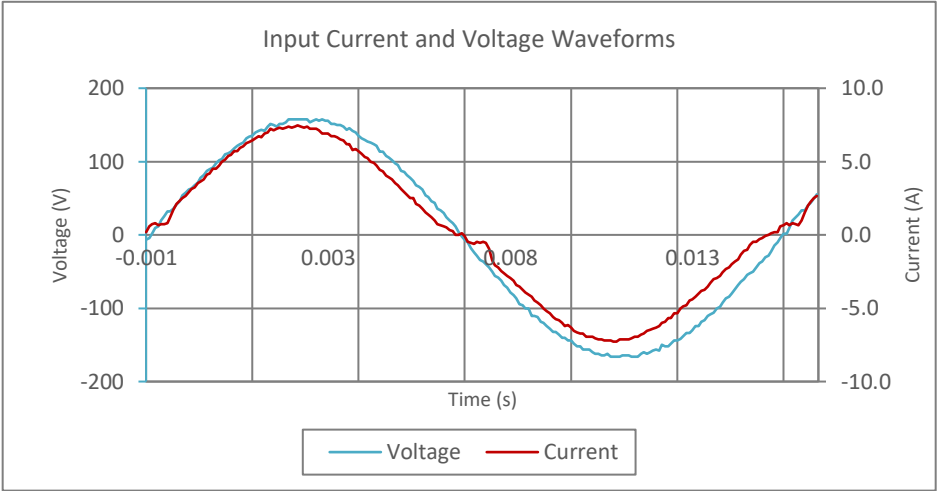
TYPICAL EFFICIENCY (50% Load):	91.63%
AVERAGE EFFICIENCY :	90.47%
80 PLUS COMPLIANT:	YES



ID Number	6730
Manufacturer	Zalman
Model Number	ZM1000-TMX
Serial Number	N/A
Year	2021
Type	ATX12V
Test Date	12/16/21

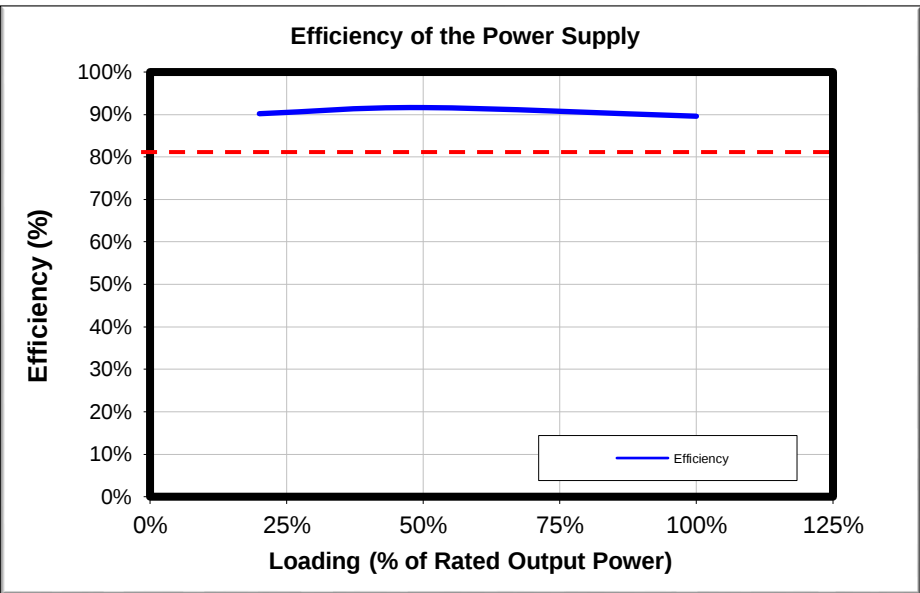
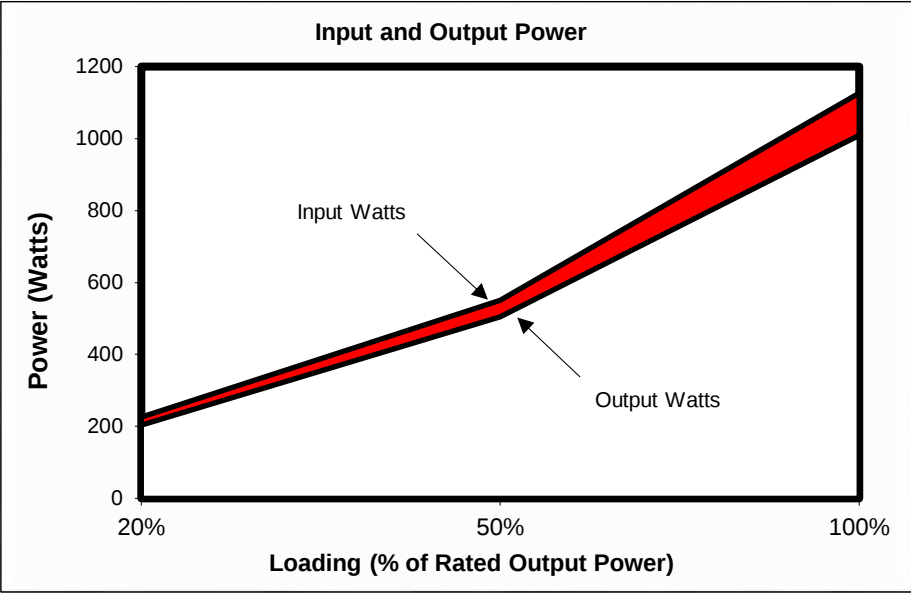
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	50-60	Hz
Rated Output Power	1000	Watts

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



Input AC Current Waveform (ITHD = 11.06%, 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		
1.05	0.98	11.87%	10%	117.80	12.17/7.31	11.85/0	3.33/0	5.06/0	5.12/0	88.95	75.51%
1.99	0.98	12.44%	20%	225.31	12.17/14.62	11.84/0.05	3.32/2.63	5.05/2.62	5.1/0.52	203.19	90.18%
4.83	0.99	11.06%	50%	550.60	12.09/36.56	11.82/0.13	3.28/6.59	5/6.53	5.04/1.31	504.51	91.63%
9.83	1.00	6.60%	100%	1126.30	12.14/73.01	11.75/0.26	3.24/13.18	4.9/13.03	4.98/2.62	1009.10	89.59%



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/>