

80 PLUS Verification and Testing Report

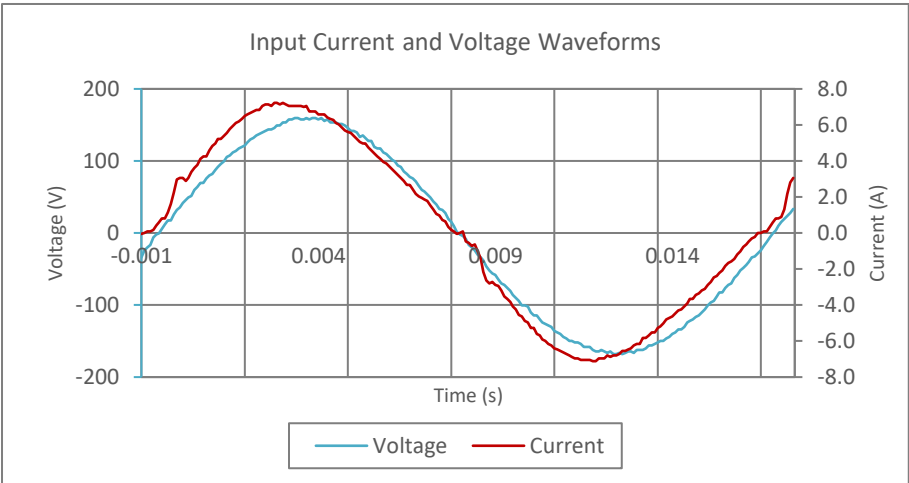
TYPICAL EFFICIENCY (50% Load):	91.18%
AVERAGE EFFICIENCY :	89.46%
80 PLUS COMPLIANT:	YES



ID Number	5422
Manufacturer	Zalman Tech Co., Ltd
Model Number	ZM1000-EBTII
Serial Number	N/A
Year	2018
Type	EPS12V
Test Date	11/14/18

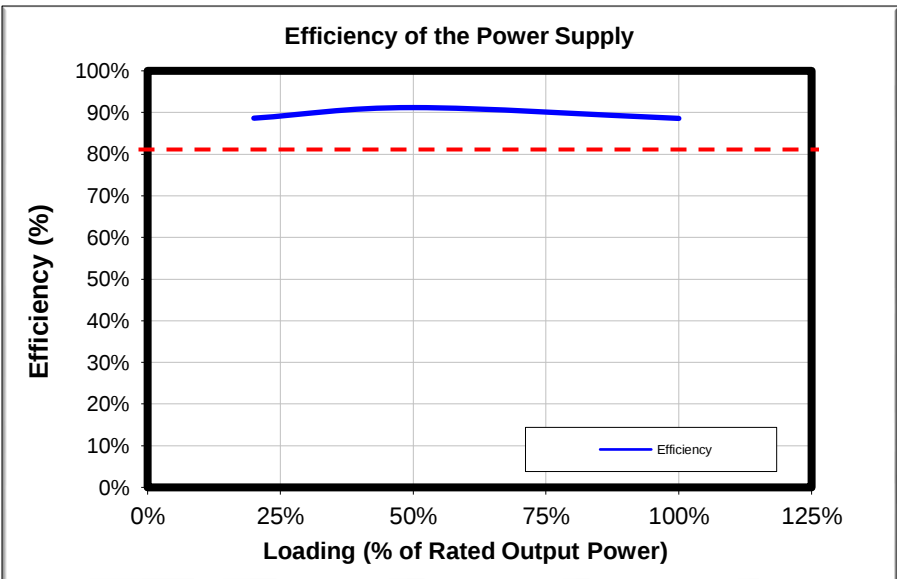
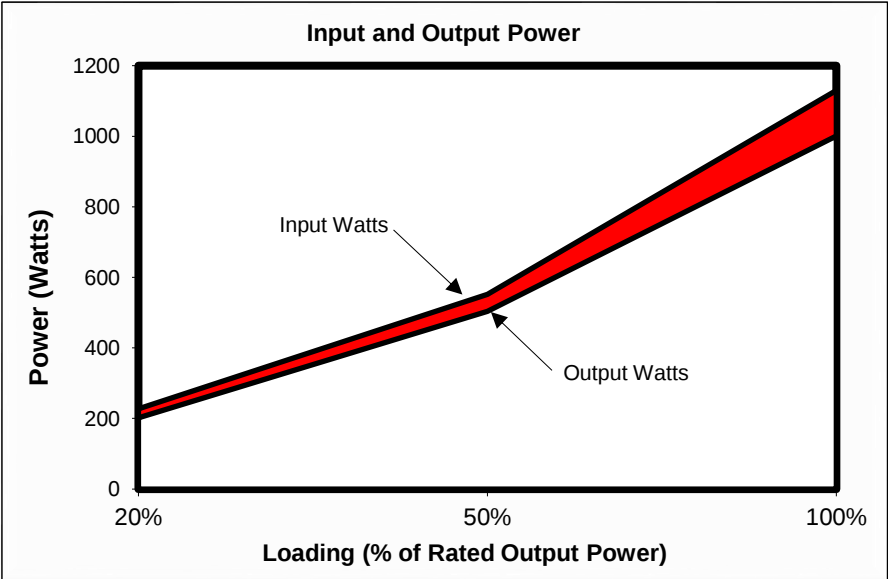
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	11-5.5	Amps
Input Frequency	50-60	Hz
Rated Output Power	1000	Watts

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



Input AC Current Waveform (ITHD = 6.89%, 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		
1.08	0.96	15.92%	10%	119.00	12.05/7.32	11.85/0.03	3.39/1.27	5.07/1.27	5.12/0.26	100.65	84.58%
2.03	0.98	11.22%	20%	227.68	12.05/14.7	11.86/0.05	3.38/2.55	5.06/2.53	5.1/0.53	201.79	88.63%
4.86	0.99	6.89%	50%	552.20	12.04/36.74	11.88/0.13	3.35/6.38	5.03/6.32	5.07/1.32	503.50	91.18%
9.88	0.99	5.69%	100%	1129.80	11.99/73.37	11.93/0.26	3.29/12.75	4.97/12.61	5.01/2.64	1000.73	88.58%



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/>

