

80 PLUS Verification and Testing Report

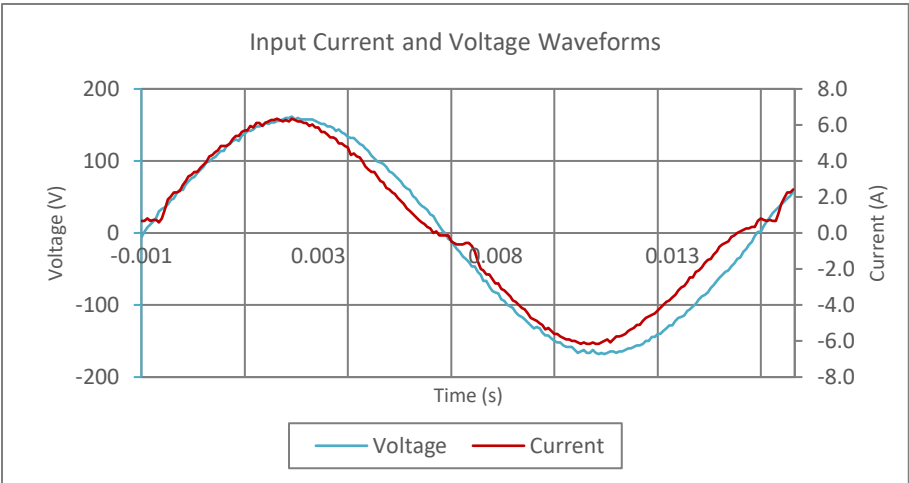
TYPICAL EFFICIENCY (50% Load):	91.44%
AVERAGE EFFICIENCY :	89.95%
80 PLUS COMPLIANT:	YES



ID Number	6689
Manufacturer	Zalman
Model Number	ZM850-TMX
Serial Number	N/A
Year	2021
Type	ATX12V
Test Date	10/15/21

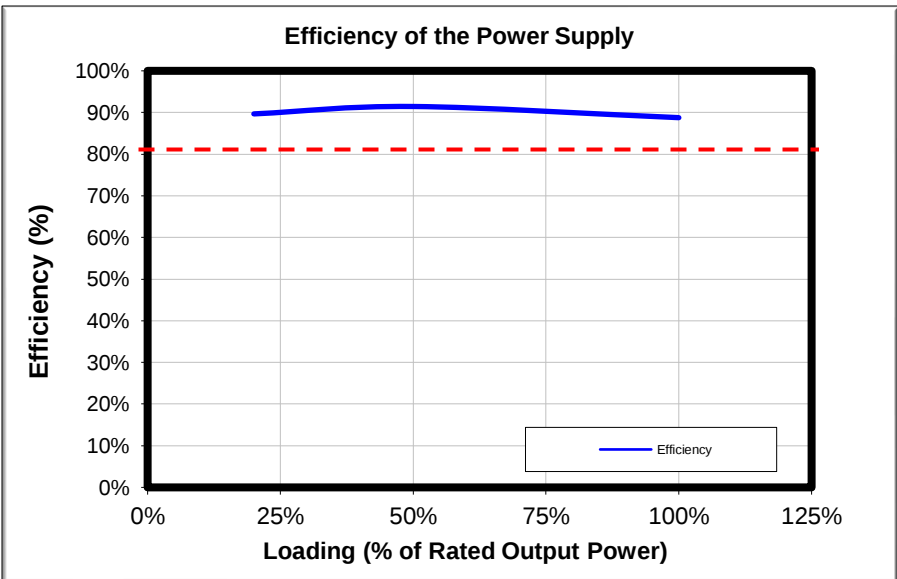
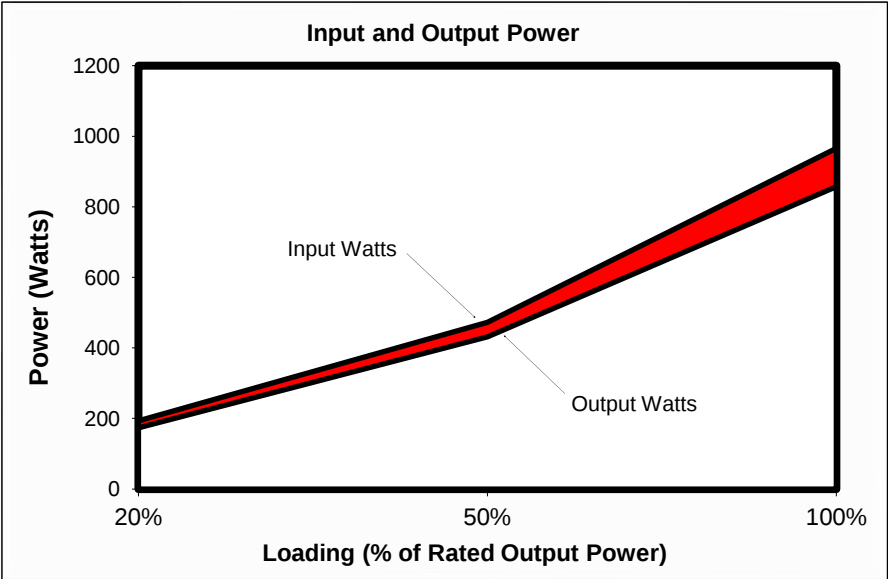
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



Input AC Current Waveform (ITHD = 9.21%, 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		
0.91	0.97	7.78%	10%	101.70	12.26/6.1	11.87/0.03	3.42/1.24	5.1/1.24	5.08/0.26	86.98	85.52%
1.73	0.97	13.25%	20%	194.14	12.23/12.24	11.88/0.05	3.39/2.49	5.09/2.48	5.06/0.52	174.07	89.66%
4.14	0.99	9.21%	50%	472.10	12.15/30.59	11.9/0.13	3.33/6.22	5.05/6.17	5/1.29	431.69	91.44%
8.43	1.00	6.99%	100%	965.70	12.11/61.12	11.88/0.26	3.21/12.44	5/12.31	4.92/2.58	857.16	88.76%



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/>