

80 PLUS Verification and Testing Report

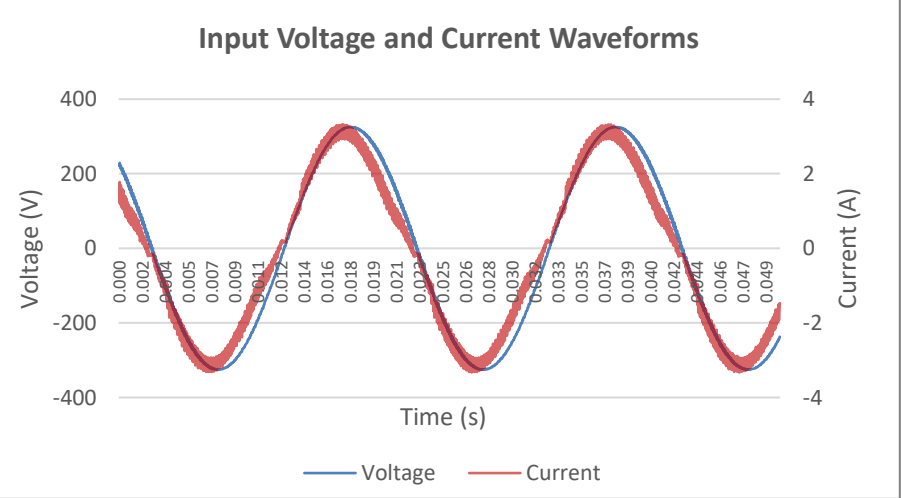
TYPICAL EFFICIENCY (50% Load):	89.69%
AVERAGE EFFICIENCY :	86.03%
80 PLUS COMPLIANT:	Bronze



ID Number	EU-950
Manufacturer	Zalman
Model Number	ZM850-GV3
Serial Number	N/A
Year	2023
Type	ATX12V
Test Date	5/9/23

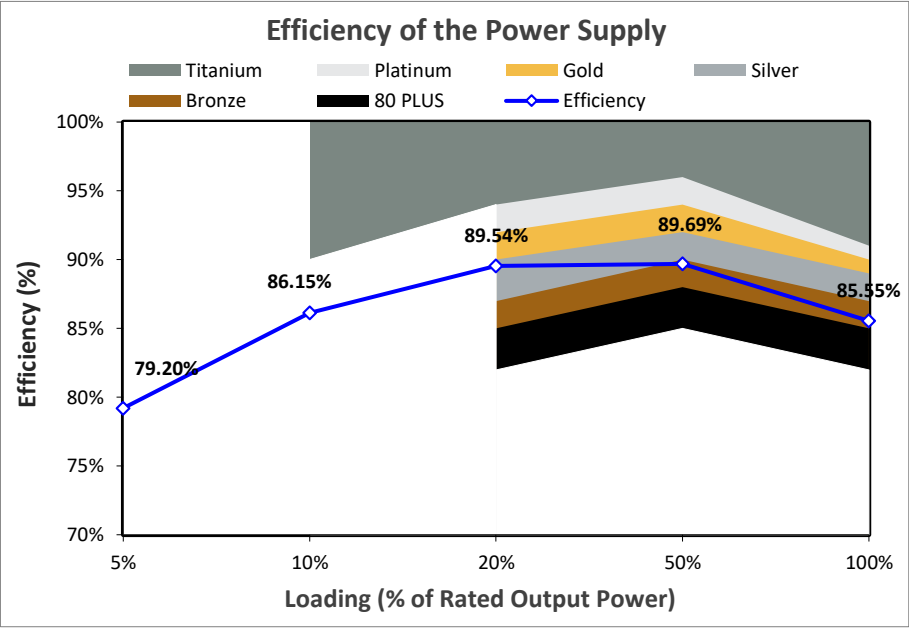
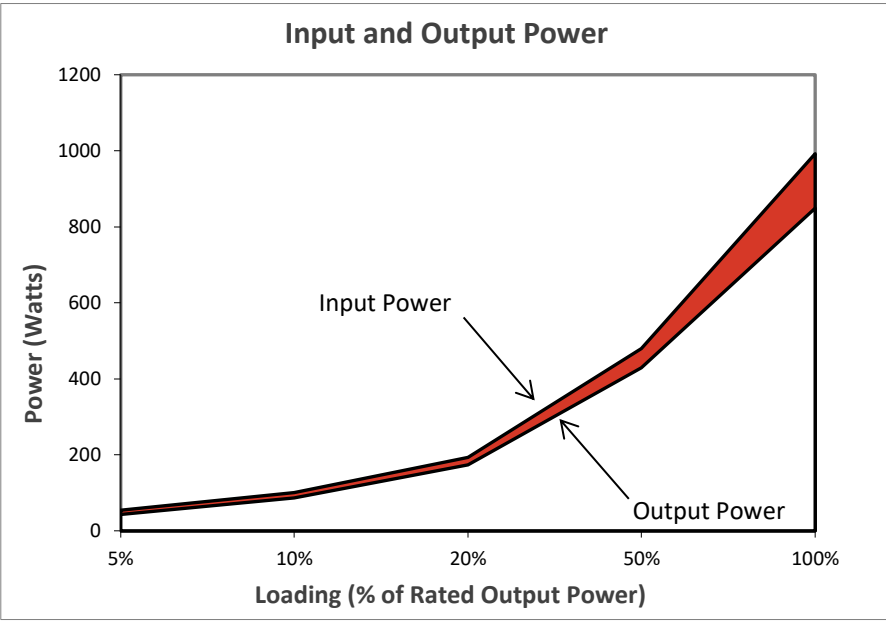
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	7	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



Input AC Current Waveform (ITHD = 7.08%, 50% Load)

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		
0.150	0.2339	20.61	0%	8.09	No-Load						
0.316	0.7499	12.97	5%	54.55	12.18/2.96	12.34/0.01	3.35/0.74	5.15/0.74	5.11/0.14	43.21	79.20%
0.495	0.8810	9.42	10%	100.22	12.18/5.91	12.25/0.03	3.34/1.48	5.14/1.48	5.1/0.28	86.33	86.15%
0.882	0.9514	8.20	20%	193.01	12.16/11.86	12.21/0.07	3.32/2.96	5.12/2.95	5.08/0.57	172.83	89.54%
2.114	0.9847	7.08	50%	478.96	12.11/29.69	12.25/0.14	3.27/7.4	5.05/7.34	5.01/1.42	429.58	89.69%
4.343	0.9931	4.64	100%	992.24	12.03/59.17	12.39/0.28	3.2/14.75	4.93/14.66	4.88/2.83	848.85	85.55%



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/>