80 PLUS Verification and Testing Report

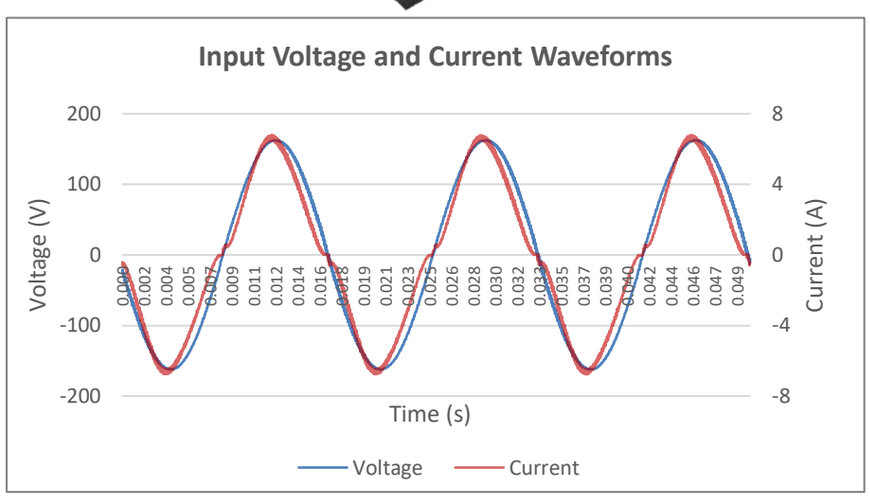
TYPICAL EFFICIENCY (50% Load):	**91.15%**
AVERAGE EFFICIENCY :	**87.32%**
80 PLUS COMPLIANT:	**Gold**



ID Number	7064
Manufacturer	Shenzhen Ruishengyuan Technology Co., Ltd
Model Number	RAT-850GPB0
Serial Number	N/A
Year	2023
Type	ATX12V, EPS12V
Test Date	6/6/23

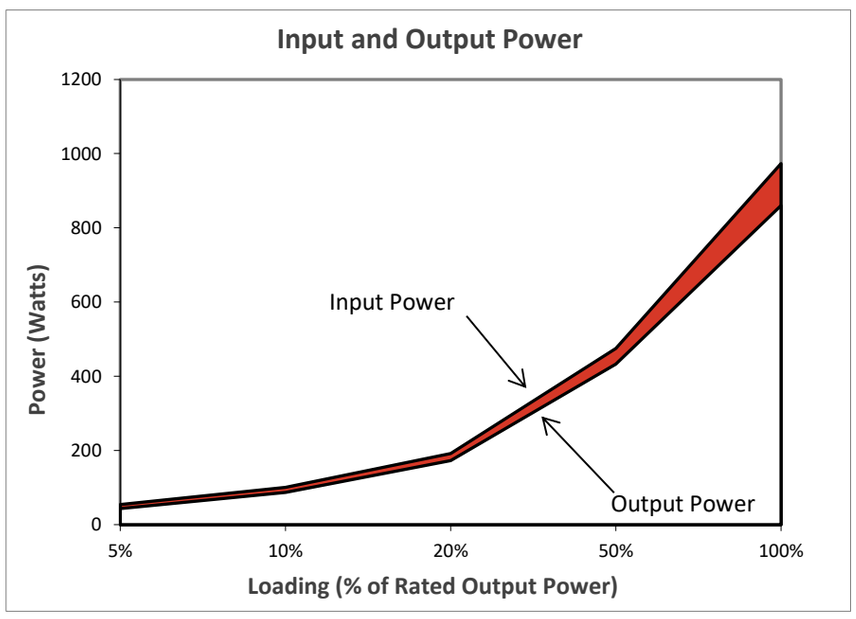
Rated Specifications	Value	Units
Input Voltage	100-240	**Volts**
Input Current	10	**Amps**
Input Frequency	50-60	**Hz**
Rated Output Power	850	**Watts**

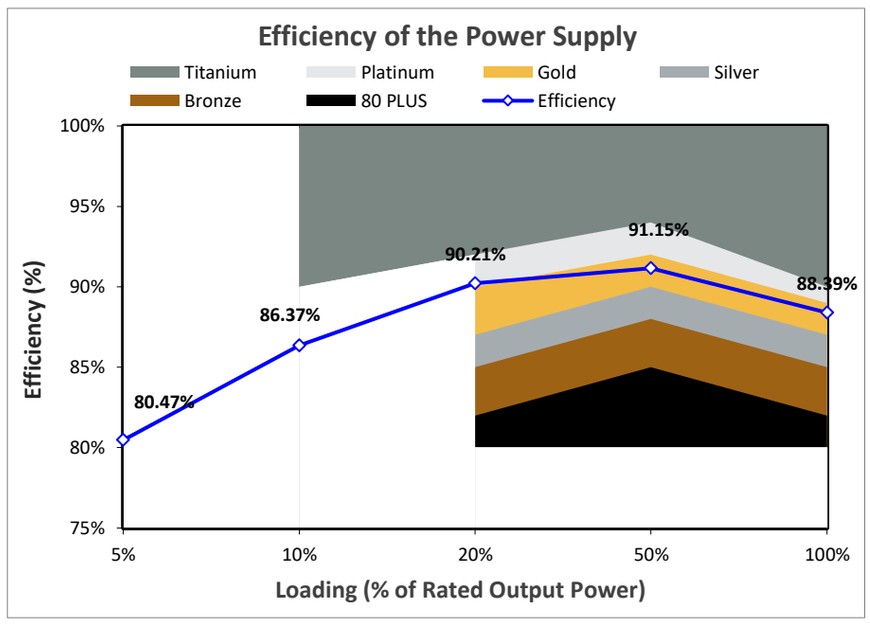
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 14.49%, 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	5Vsb		
0.129	0.5892	39.36	0%	**8.73**	**No-Load**						
0.486	0.9628	11.93	5%	**53.87**	12.21/3.1	12.31/0.02	3.38/0.53	5.17/0.53	5.14/0.13	**43.35**	**80.47%**
0.920	0.9510	26.33	10%	**100.60**	12.21/6.22	12.31/0.05	3.38/1.06	5.16/1.06	5.14/0.26	**86.89**	**86.37%**
1.728	0.9660	22.81	20%	**192.05**	12.2/12.43	12.31/0.07	3.37/2.11	5.15/2.11	5.13/0.53	**173.25**	**90.21%**
4.186	0.9862	14.49	50%	**474.63**	12.17/31.16	12.29/0.18	3.35/5.27	5.12/5.27	5.09/1.32	**432.63**	**91.15%**
8.540	0.9907	11.97	100%	**973.32**	12.11/62.29	12.27/0.35	3.31/10.53	5.07/10.55	5.02/2.63	**860.27**	**88.39%**





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/*