80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	92.46%
AVERAGE EFFICIENCY :	89.05%
80 PLUS COMPLIANT:	Platinum

ID Number	7540
Manufacturer	ARDOR GAMING
Model Number	850WPF
Serial Number	N/A
Type	ATX12V
Test Date	9/11/24

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 Voltage and Current Waveforms
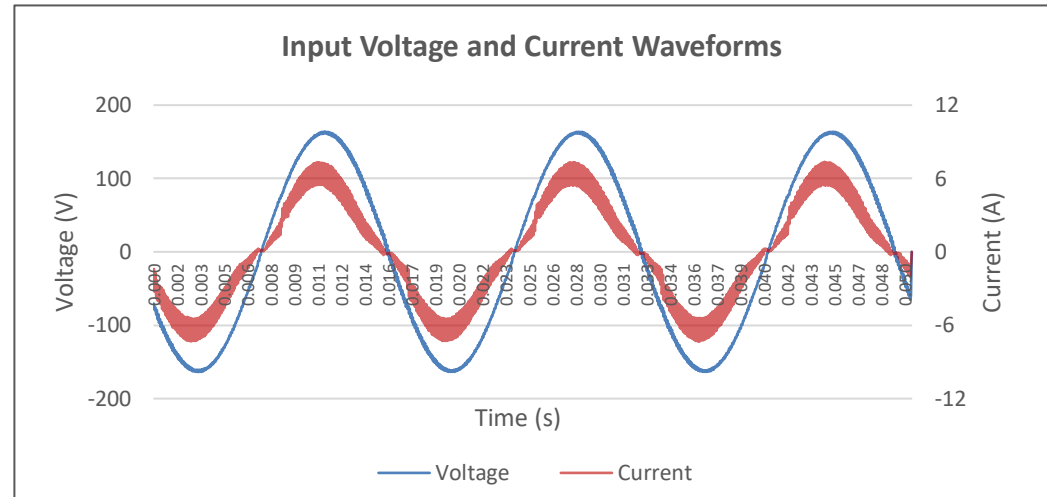
Input AC Current Waveform (ITHD = 13.95%, 50% Load)

$I_{RMS (A)}$	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	5Vstb		
0.192	0.3001	35.41	0%	6.62	No-Load					42.95	82.40%
0.552	0.8216	20.12	5%	52.13	12.12/3.11	12.25/0.013	3.38/0.53	5.04/0.53	5.1/0.133	42.95	82.40%
0.939	0.9090	10.71	10%	98.14	12.11/6.21	12.25/0.027	3.4/1.07	5.06/1.07	5.08/0.266	85.92	87.55%
1.715	0.9525	8.77	20%	187.77	12.12/12.42	12.25/0.053	3.43/2.14	5.09/2.14	5.06/0.532	171.96	91.58%
4.141	0.9780	13.95	50%	465.71	12.11/31.04	12.26/0.133	3.53/5.34	5.18/5.34	4.97/1.33	430.60	92.46%
8.341	0.9879	11.71	100%	948.04	12.13/62.07	12.28/0.266	3.68/10.68	5.32/10.68	4.8/2.66	865.06	91.25%

Input and Output Power

Efficiency of the Power Supply
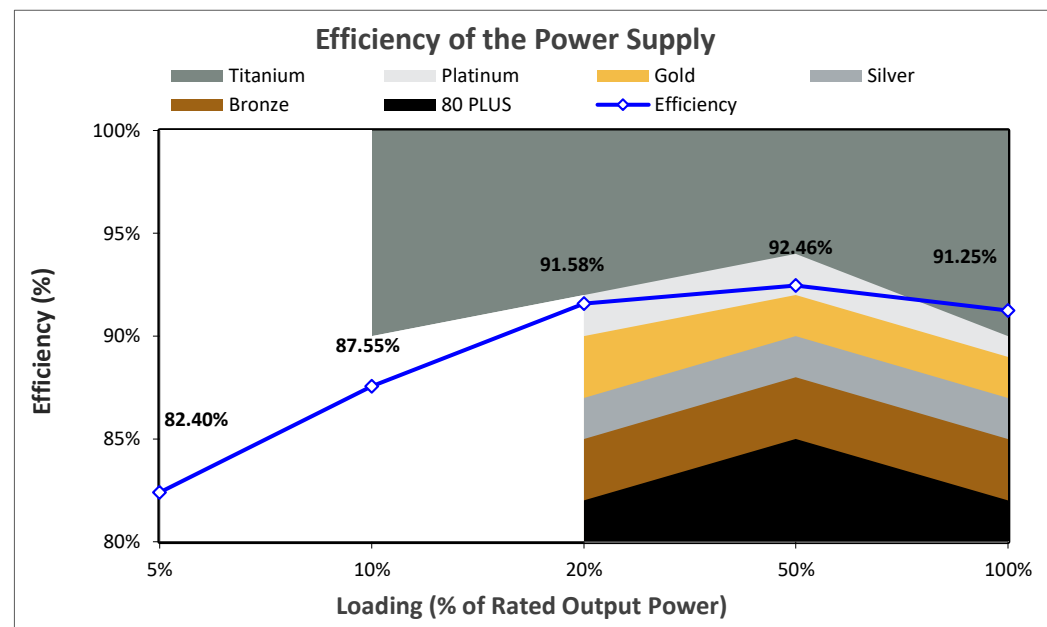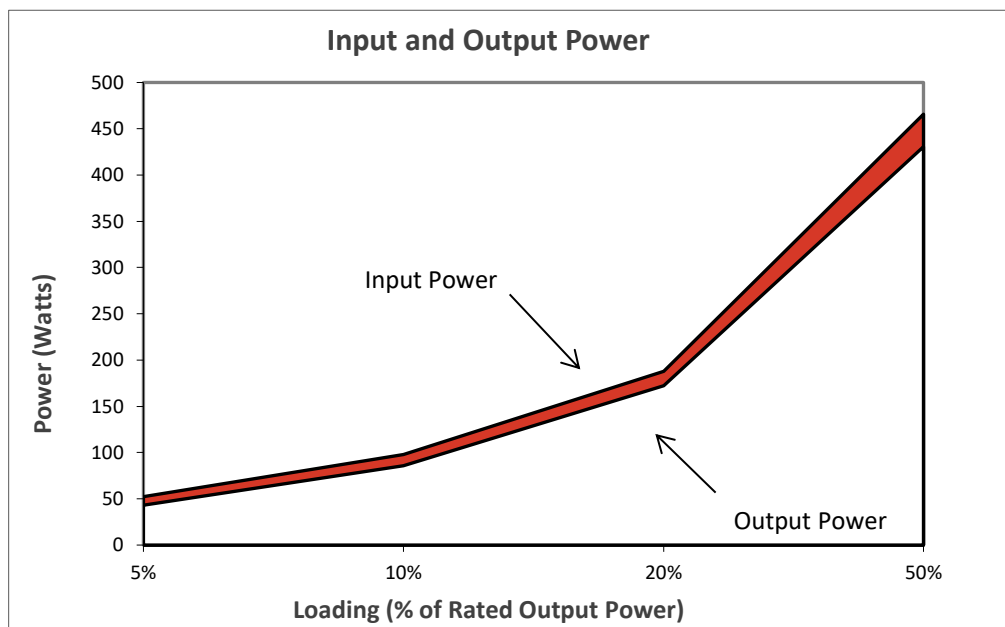
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. *http://www.80plus.org/*