

# 80 PLUS Verification and Testing Report

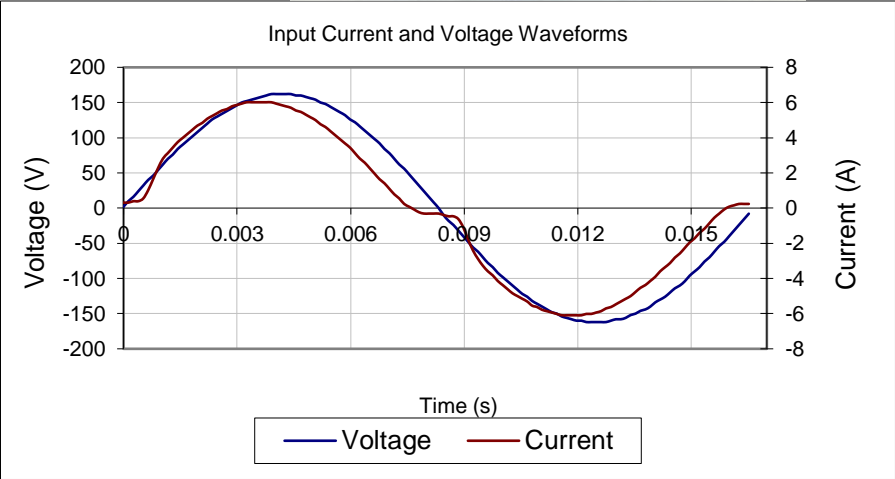
TYPICAL EFFICIENCY (50% Load):	91.60%
AVERAGE EFFICIENCY :	90.27%
80 PLUS COMPLIANT:	YES



ID Number	4869
Manufacturer	In Win Development Inc.
Model Number	PL 850W
Serial Number	66168020600093
Year	2017
Type	ATX12V, EPS12V, PS2
Test Date	2/6/17

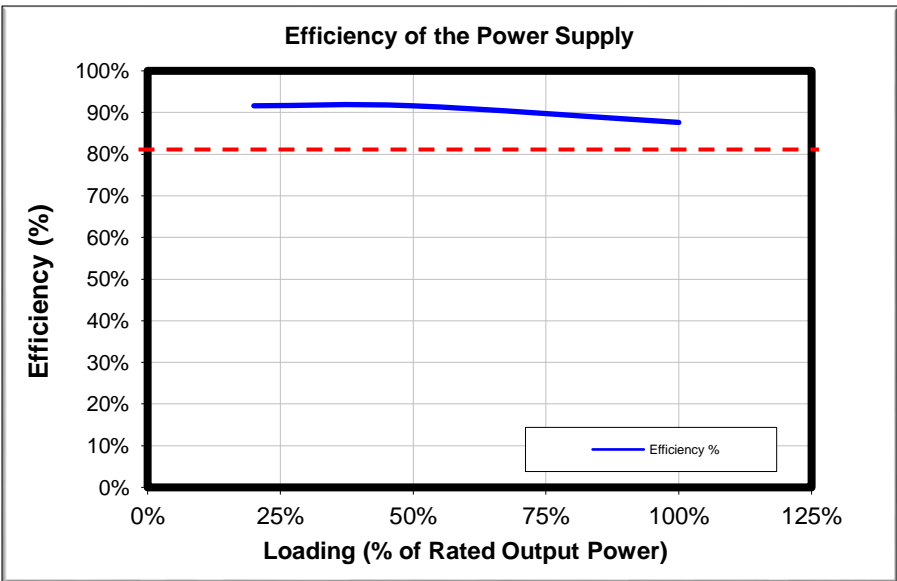
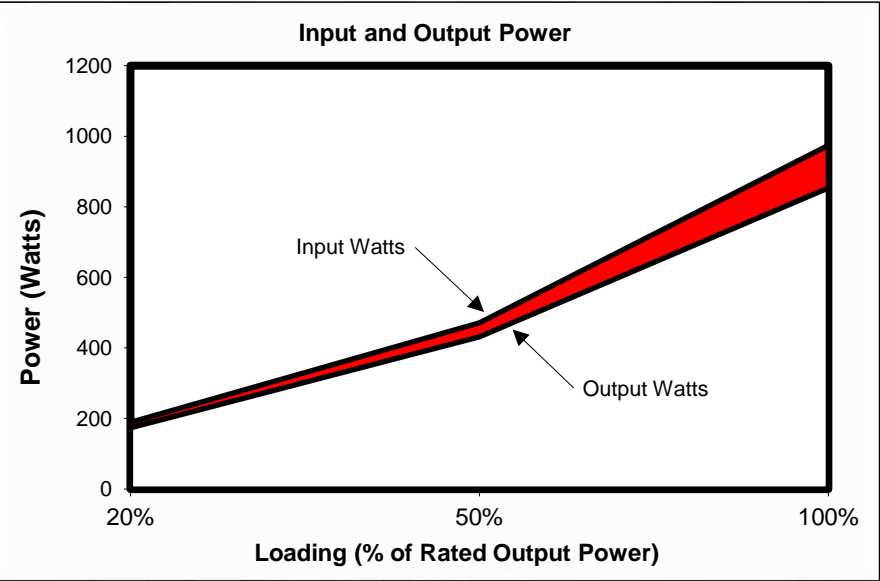
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10-5	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



Input AC Current Waveform (ITHD = 12.59%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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		
0.88	0.97	7.23%	10%	97.50	12.26/6.19	12.34/0.03	3.38/1.06	5.16/1.06	5.01/0.26	86.65	88.87%
1.74	0.95	22.74%	20%	188.83	12.23/12.41	12.34/0.05	3.38/2.11	5.15/2.1	4.99/0.53	172.98	91.60%
4.18	0.98	12.59%	50%	470.50	12.18/31.08	12.4/0.13	3.36/5.29	5.1/5.24	4.94/1.32	430.98	91.60%
8.52	0.99	7.30%	100%	974.10	12.11/61.92	12.82/0.26	3.33/10.58	5.02/10.47	4.87/2.63	853.42	87.61%



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/>

