

80 PLUS Verification and Testing Report

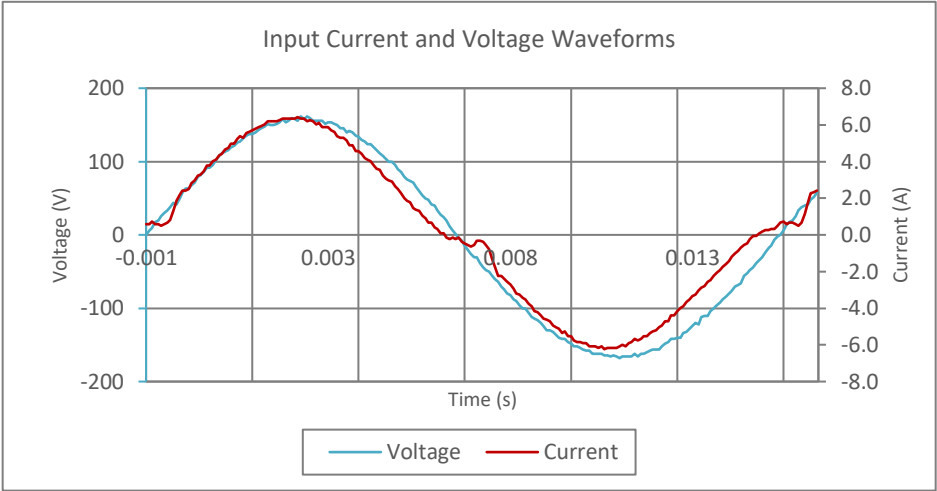
TYPICAL EFFICIENCY (50% Load):	91.07%
AVERAGE EFFICIENCY :	89.79%
80 PLUS COMPLIANT:	YES



ID Number	6719
Manufacturer	Pystar
Model Number	ES850
Serial Number	N/A
Year	2021
Type	ATX12V
Test Date	12/8/21

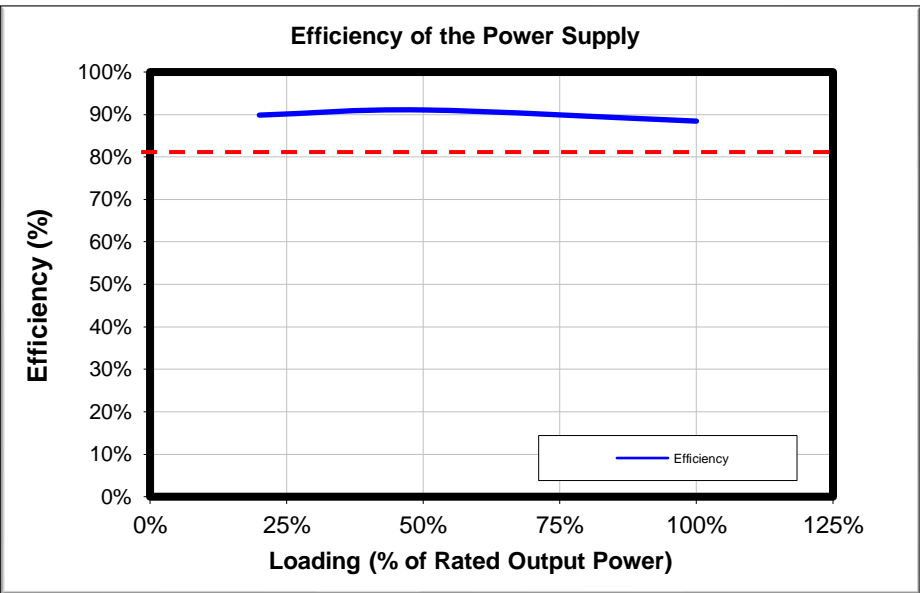
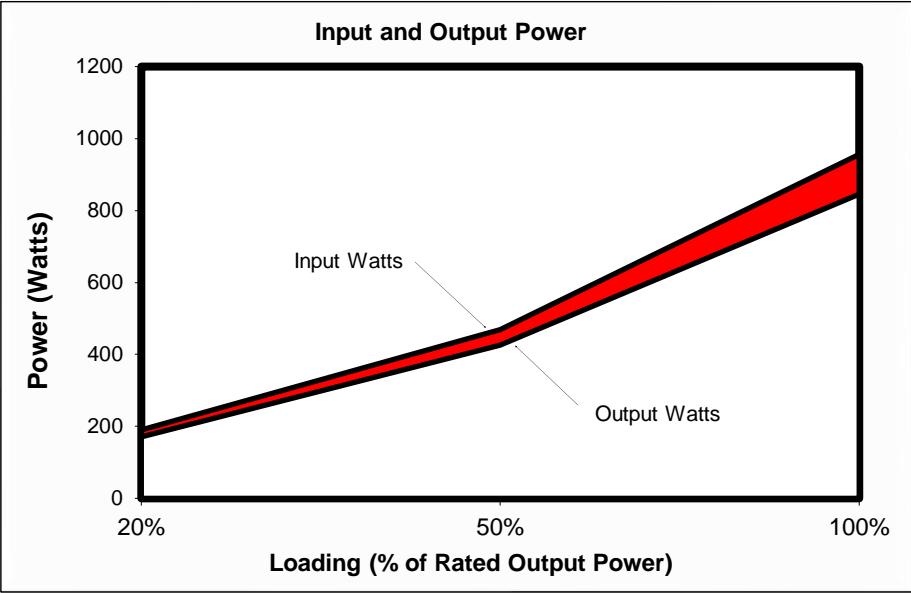
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	50-60	Hz
Rated Output Power	850	Watts

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



Input AC Current Waveform (ITHD = 11.43%, 50% Load)

I <sub>RMS</sub>	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		
0.89	0.98	11.29%	10%	99.95	12.03/6.23	11.99/0.03	3.38/1.07	5.06/1.07	5.06/0.22	85.37	85.42%
1.70	0.97	16.87%	20%	190.18	12.03/12.48	12/0.05	3.37/2.14	5.04/2.14	5.03/0.44	170.88	89.85%
4.11	0.99	11.43%	50%	468.20	12/31.27	12.04/0.13	3.33/5.36	4.97/5.31	4.96/1.11	426.40	91.07%
8.35	1.00	8.16%	100%	956.00	11.96/62.34	12.1/0.27	3.27/10.72	4.85/10.6	4.83/2.22	845.49	88.44%



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/>