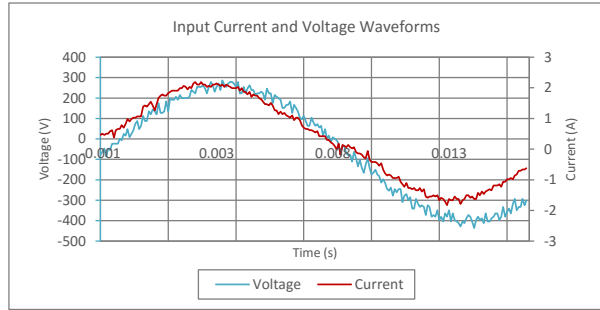


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>88.91%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>87.29%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	EU-382
<b>Manufacturer</b>	Listan GmbH & Co. KG
<b>Model Number</b>	S9-500W
<b>Serial Number</b>	N/A
<b>Year</b>	2017
<b>Type</b>	ATX12V
<b>Test Date</b>	1/25/18

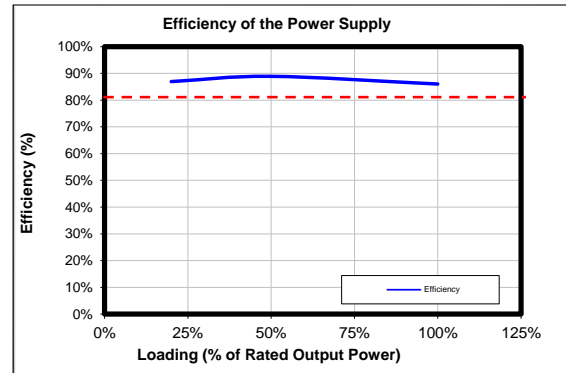
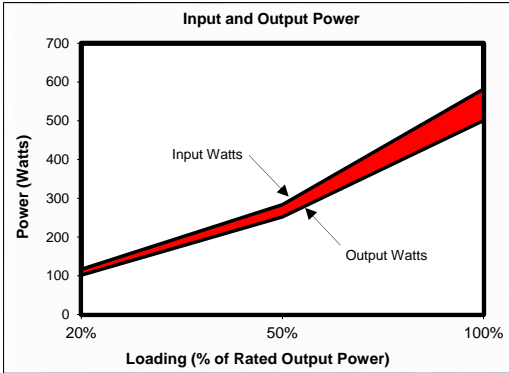


Input AC Current Waveform (ITHD = 9.58%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	4	Amps
Input Frequency	50	Hz
<b>Rated Output Power</b>	<b>500</b>	<b>Watts</b>

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

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		
0.32	0.86	20.02%	10%	62.44	12.18/3.27	12.04/0.03	3.37/1.46	5.09/0.92	5.1/0.26	51.03	81.72%
0.54	0.94	14.85%	20%	116.68	12.16/6.51	12.06/0.05	3.36/2.93	5.08/1.82	5.09/0.51	101.44	86.94%
1.26	0.98	9.58%	50%	283.50	12.07/16.3	12.06/0.13	3.33/7.32	5.04/4.54	5.05/1.28	252.06	88.91%
2.55	0.99	7.07%	100%	581.90	12.04/32.54	12.23/0.26	3.28/14.59	4.98/9.08	4.97/2.57	500.57	86.02%



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/>

