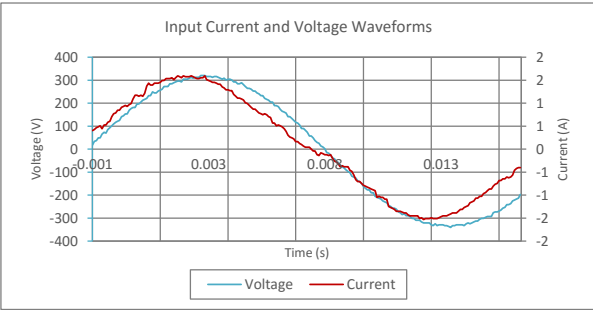


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>89.03%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>87.52%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	EU-381
<b>Manufacturer</b>	Listan GmbH & Co. KG
<b>Model Number</b>	S9-400W
<b>Serial Number</b>	N/A
<b>Year</b>	2017
<b>Type</b>	ATX12V
<b>Test Date</b>	1/25/18

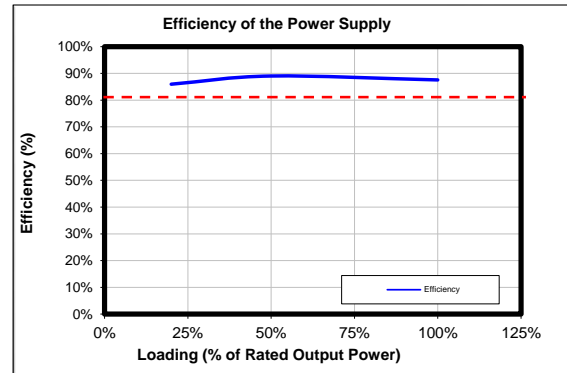
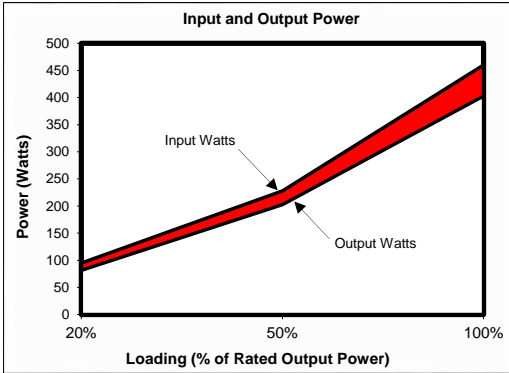


Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	4	Amps
Input Frequency	50	Hz
<b>Rated Output Power</b>	<b>400</b>	<b>Watts</b>

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

Input AC Current Waveform (ITHD = 9.9%, 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		
0.28	0.81	18.48%	10%	51.20	12.21/2.54	12.06/0.02	3.37/1.27	5.07/0.79	5.09/0.24	40.70	79.48%
0.45	0.91	14.11%	20%	94.74	12.19/5.07	12.06/0.05	3.36/2.54	5.06/1.59	5.08/0.47	81.44	85.97%
1.02	0.97	9.90%	50%	227.78	12.16/12.7	12.08/0.12	3.34/6.34	5.04/3.93	5.05/1.19	202.79	89.03%
2.02	0.99	7.71%	100%	460.00	12.09/25.39	12.14/0.24	3.31/12.65	4.99/7.87	5/2.37	402.79	87.56%



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/>

