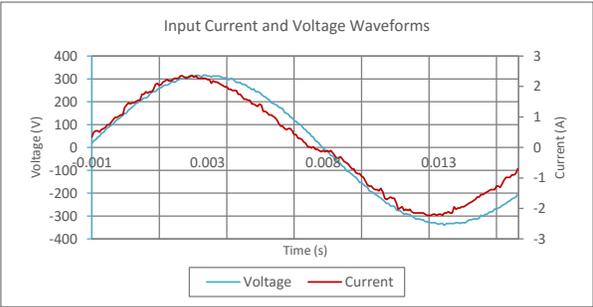


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>88.80%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>87.28%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	EU-383
<b>Manufacturer</b>	Listan GmbH & Co. KG
<b>Model Number</b>	S9-600W
<b>Serial Number</b>	N/A
<b>Year</b>	2017
<b>Type</b>	ATX12V
<b>Test Date</b>	1/25/18

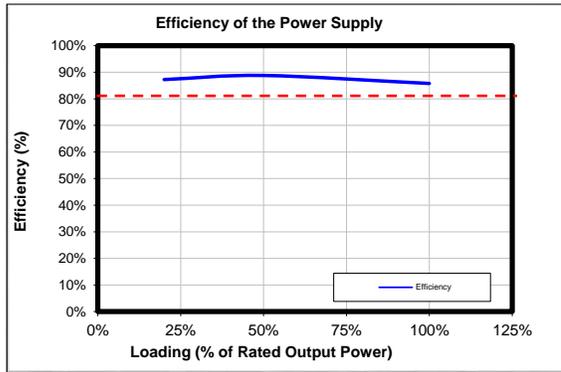
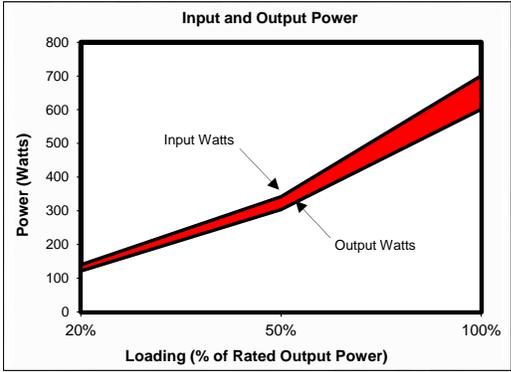


Input AC Current Waveform (I<sub>THD</sub> = 9.99%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	6	Amps
Input Frequency	50	Hz
<b>Rated Output Power</b>	<b>600</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.)						
0.36	0.89	20.49%	10%	74.32	12.21/4.05						
0.64	0.95	15.14%	20%	139.80	12.19/8.07						
1.51	0.98	9.99%	50%	342.20	12.13/20.22						
3.07	0.99	7.51%	100%	700.90	12.04/40.38						
						-12V	3.3V	5V	5Vsb		
						12.06/0.03	3.38/1.57	5.07/0.98	5.13/0.25	61.30	82.48%
						12.09/0.05	3.37/3.13	5.05/1.95	5.12/0.5	121.97	87.25%
						12.12/0.13	3.34/7.83	5.02/4.86	5.08/1.26	303.86	88.80%
						12.22/0.25	3.29/15.6	4.95/9.72	5/2.52	601.25	85.78%



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/>

