

# 80 PLUS Verification and Testing Report

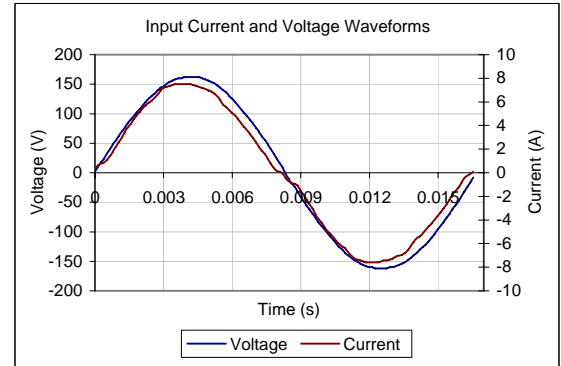


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>88.87%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>86.81%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	1067
<b>Manufacturer</b>	DELL
<b>Model Number</b>	N525EF-00
<b>Serial Number</b>	NA
<b>Year</b>	2008
<b>Type</b>	CUSTOM
<b>Test Date</b>	10/21/2008

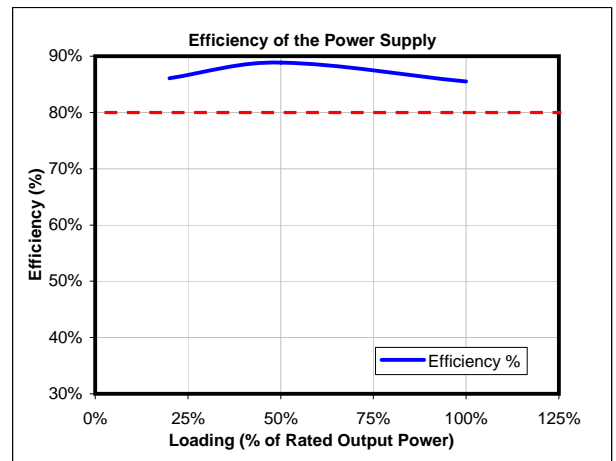
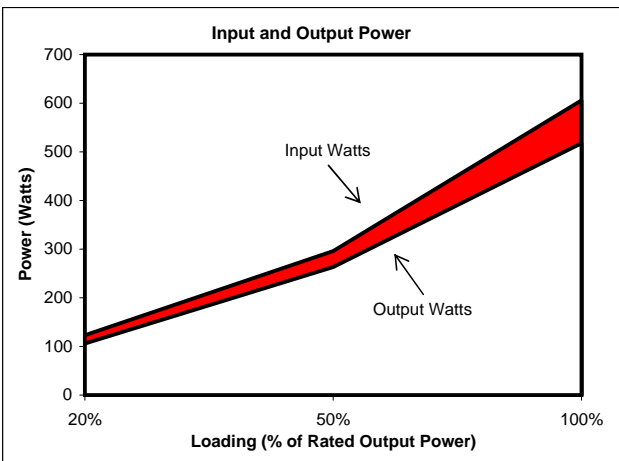
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	7.9	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>525</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 7.45%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of 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
1.09	0.98	11.8%	20%	Light	123	12.1/6.5	12.3/0.1	3.3/2.8	4.9/2.8	5.1/0.6	106	86.06%
2.59	0.99	7.5%	50%	Typical	296	12/16.2	12.3/0.2	3.3/7	4.9/7	5/1.6	263	88.87%
5.28	1.00	7.0%	100%	Full	606	11.9/32.4	12.3/0.4	3.3/14	4.8/14	4.9/3.1	518	85.50%



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.

Tested by Electric Power Research Institute, Knoxville, TN.

