

# 80 PLUS Verification and Testing Report

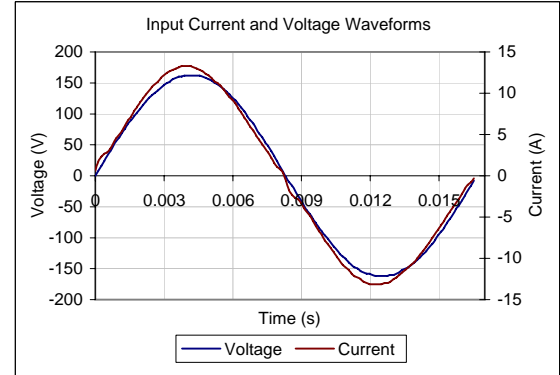


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.53%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>82.68%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	315
<b>Manufacturer</b>	DELL
<b>Model Number</b>	YN642
<b>Serial Number</b>	NA
<b>Year</b>	2007
<b>Type</b>	CUSTOM
<b>Test Date</b>	7/30/2007

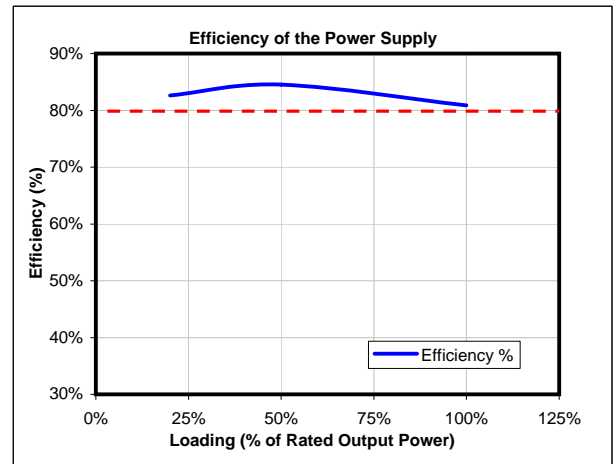
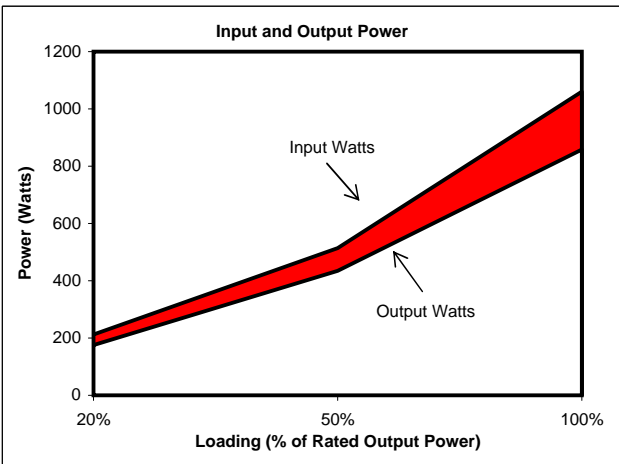
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	14	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>875</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 4.63%, 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		
1.87	0.98	6.5%	20%	Light	212	12/12.1	12/0	3.3/4.4	5/2.3	5/0.5	175	82.63%
4.48	1.00	4.6%	50%	Typical	514	11.9/30.4	12/0.1	3.3/11	5/5.9	5/1.3	434	84.53%
9.24	1.00	4.6%	100%	Full	1060	11.8/60.7	12.1/0.2	3.2/22	4.9/11.8	4.9/2.7	858	80.88%



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.