

80 PLUS Verification and Testing Report

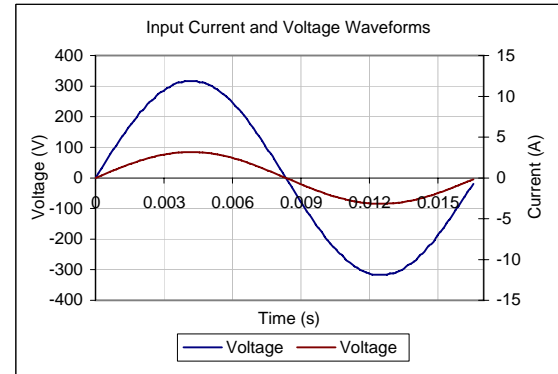
TYPICAL EFFICIENCY (50% Load):	90.16%
AVERAGE EFFICIENCY :	88.62%
80 PLUS COMPLIANT:	YES



Ecos ID #	SO-20
Manufacturer	DELL
Model Number	7001453-J000
Serial Number	NA
Year	2008
Type	1U CUSTOM
Test Date	9/19/2008

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	50-60	Hz
Rated Output Power	665	Watts

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

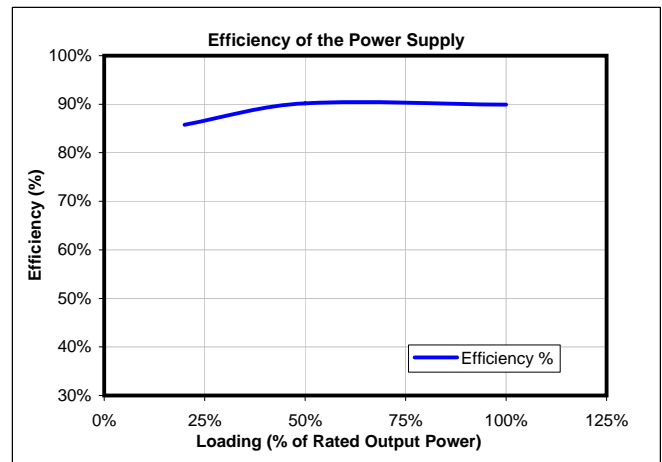
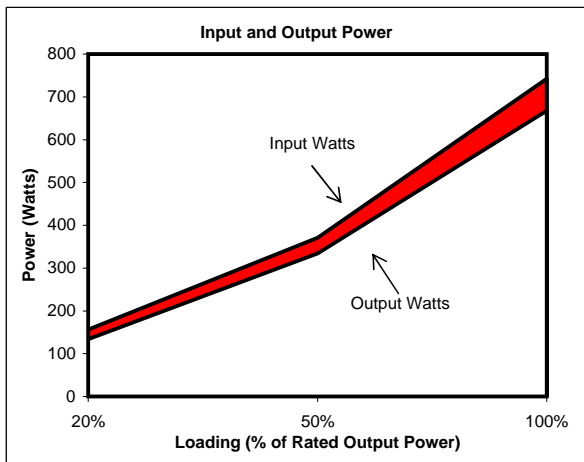


Input AC Current Waveform (ITHD = 20.02%, 100% Load)

I _{RMS} A	PF	I _{THD} (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)**	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	3.3 VSB		
0.46	0.83	19.67	*10%	Low	88	13.92	12.03/5.48	3.37/0.38	67	76.60%
0.74	0.92	20.04	20%	Light	156	13.92	12.02/10.93	3.35/0.76	134	85.75%
1.69	0.96	23.40	50%	Typical	371	13.92	12.02/27.3	3.29/1.91	334	90.16%
3.32	0.97	20.02	100%	Full	743	13.92	12.02/54.56	3.22/3.81	668	89.95%

* 10% load results are for informative purposes only and not included in certification requirements.

** Fan power is not included in the efficiency calculations.



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/>

