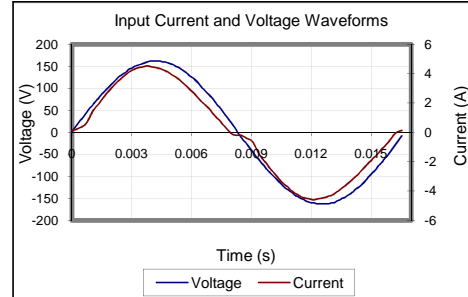


# 80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	88.57%
AVERAGE EFFICIENCY :	86.62%
80 PLUS COMPLIANT:	YES



Ecos ID #	1696
Manufacturer	DELL
Model Number	D280ES-00
Serial Number	N/A
Year	2009
Type	CUSTOM LFX
Test Date	9/23/2009

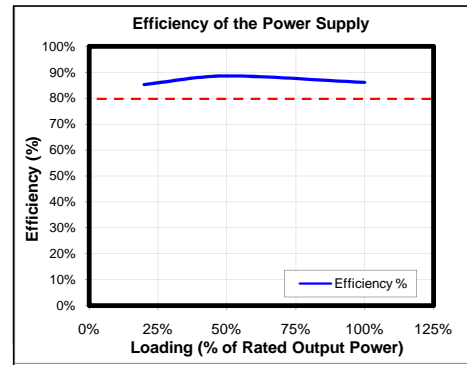
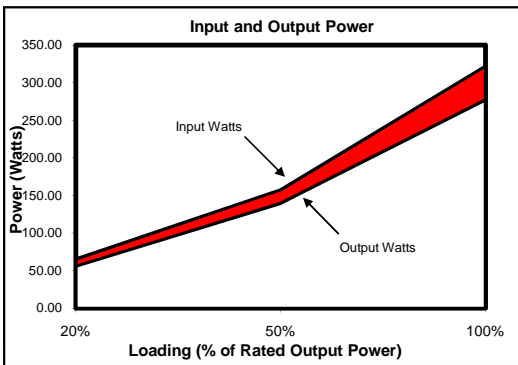


Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	5	Amps
Input Frequency	50-60	Hz
Rated Output Power	280	Watts

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

Input AC Current Waveform (ITHD = 7.85%, 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 %	
						24.8V	12V2, etc.)	-12V	3.3V	5V*			5Vaux
0.58	0.9784	12.11%	20%	Light	65.64	25.2/2.7	12/2.3	11.5/0.1	3.3/0.8	5/2.2	5/0.7	55.94	85.23%
1.39	0.9894	7.85%	50%	Typical	157.80	25.1/6.8	11.9/5.7	11.5/0.2	3.3/2.1	5/5.6	4.9/1.8	139.76	88.57%
2.81	0.9979	5.11%	100%	Full	322.30	25.1/13.5	11.9/11.5	11.7/0.4	3.2/4.2	4.9/11.1	4.9/3.5	277.37	86.06%



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/>

