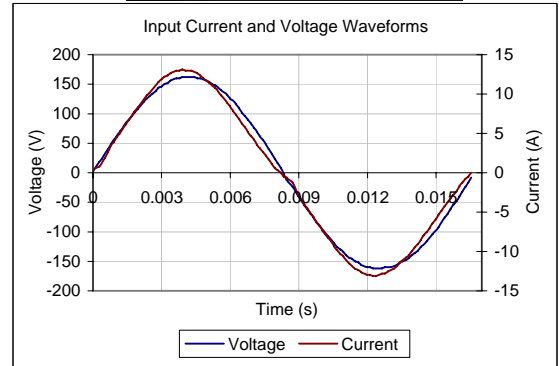


80 PLUS Verification and Testing Report



TYPICAL EFFICIENCY (50% Load):	88.10%
AVERAGE EFFICIENCY :	86.64%
80 PLUS COMPLIANT:	YES

Ecos ID #	1092
Manufacturer	SEASONIC
Model Number	M12D-850
Serial Number	N/A
Year	2008
Type	ATX12V/EPS12V
Test Date	11/25/2008

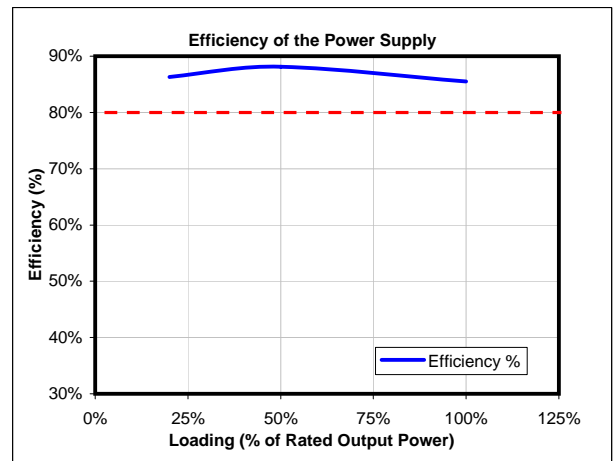
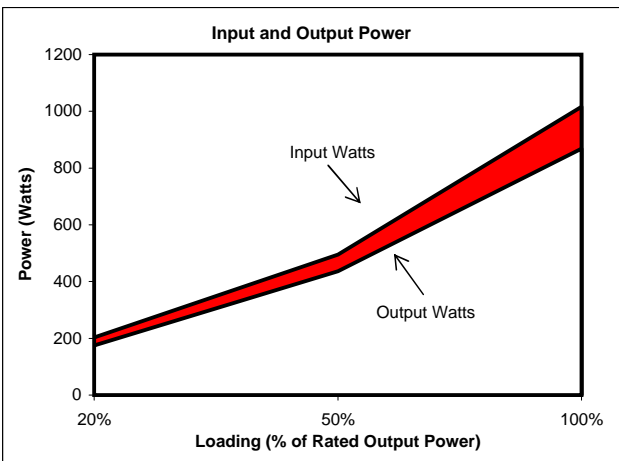


Input AC Current Waveform (ITHD = 11.07%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	50/60	Hz
Rated Output Power	850	Watts

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

I _{RMS} A	PF	I _{THD} (%)	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
1.80	0.98	16.2%	20%	Light	203	12.4/11.8	12.2/0.1	3.4/2.6	5/3.3	5/0.5	175	86.30%
4.35	0.99	11.1%	50%	Typical	496	12.4/29.4	12.2/0.3	3.4/6.6	5/8.2	5/1.3	437	88.10%
8.87	0.99	7.5%	100%	Full	1016	12.3/58.7	12/0.7	3.4/13.1	5/16.4	5/2.5	869	85.52%



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/>

