80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**91.09%**
AVERAGE EFFICIENCY :	**89.69%**
80 PLUS COMPLIANT:	**YES**

Ecos ID #	4335
Manufacturer	Corsair
Model Number	RPS0009 (CP-9020083) (RM850i)
Serial Number	N/A
Year	2015
Type	ATX12V
Test Date	5/21/15

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	47-63	Hz
Rated Output Power	**850**	**Watts**

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

Input Current and Voltage Waveforms
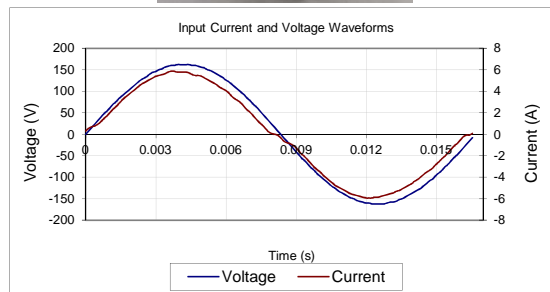
Input AC Current Waveform (ITHD = 6.18%, 50% Load)

$I_{RMS A}$ A	PF	I_{THD} (%)	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		
0.91	0.95	8.87%	10%	99.99	12.02/5.91	12.25/0.07	3.33/1.5	5.03/1.5	5.03/0.25	85.77	85.78%
1.68	0.98	7.36%	20%	189.80	12.01/11.77	12.25/0.13	3.33/3	5.03/2.98	4.94/0.5	170.48	89.82%
4.09	1.00	6.18%	50%	468.20	11.99/29.51	12.25/0.33	3.33/7.5	5.03/7.44	5.02/1.24	426.50	91.09%
8.39	1.00	6.79%	100%	961.90	11.95/58.83	12.28/0.66	3.33/14.93	5.02/14.86	5/2.49	847.81	88.14%

Input and Output Power

Efficiency of the Power Supply

PLUG LOAD solutions
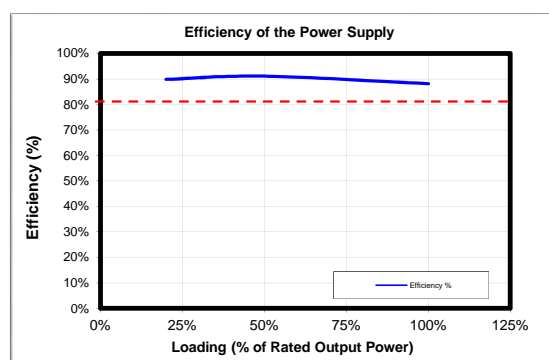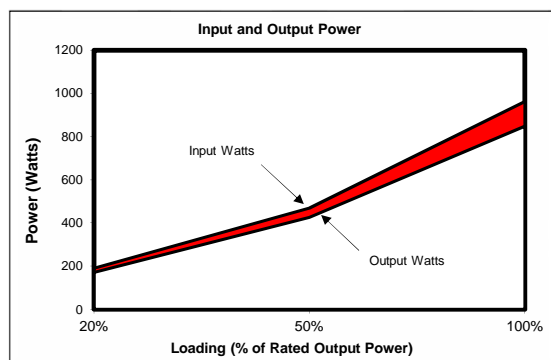
These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. http://www.80plus.org/

80 PLUS®