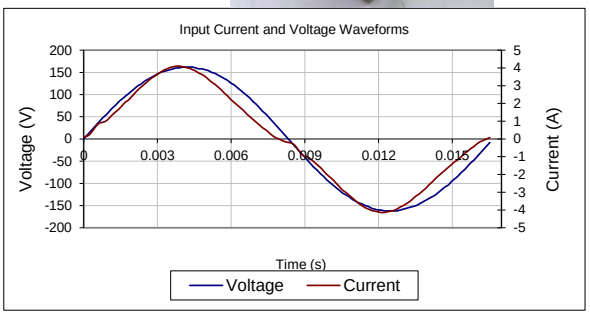
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**84.64%**
AVERAGE EFFICIENCY :	**82.72%**
80 PLUS COMPLIANT:	**YES**

Ecos ID #	4408.1
Manufacturer	Thermaltake Technology Co., Ltd.
Model Number	SPR-500AH2NK-1 SMART RGB 500W
Serial Number	N/A
Year	2015
Type	ATX12V
Test Date	7/23/15

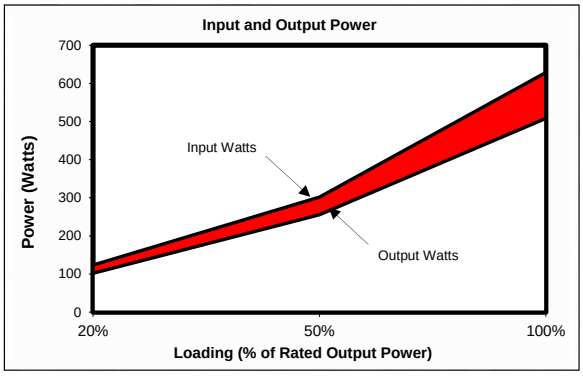
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	50-60	Hz
Rated Output Power	**500**	**Watts**

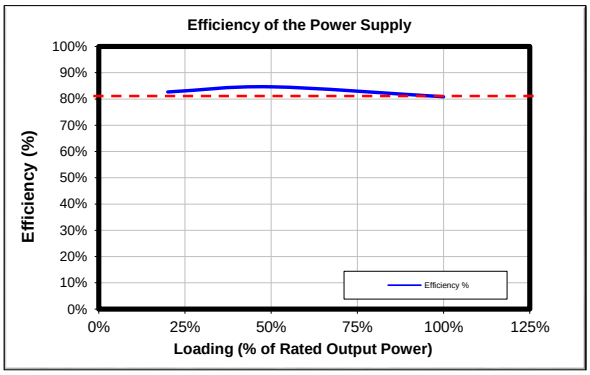
Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 13%, 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		
0.60	0.96	11.03%	10%	65.77	12.15/3.25	11.97/0.05	3.39/1.32	5.16/0.99	5.12/0.23	50.80	**77.24%**
1.10	0.98	12.21%	20%	123.38	12.2/6.52	12.03/0.09	3.39/2.63	5.12/1.97	5.11/0.46	102.00	**82.67%**
2.67	0.98	13.00%	50%	301.70	12.25/16.31	12.12/0.23	3.37/6.59	5.05/4.9	5.07/1.16	255.36	**84.64%**
5.55	0.98	12.40%	100%	628.50	12.24/32.53	12.25/0.46	3.34/13.13	4.98/9.8	5.01/2.32	508.17	**80.85%**





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/

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