

## 80 PLUS Verification and Testing Report

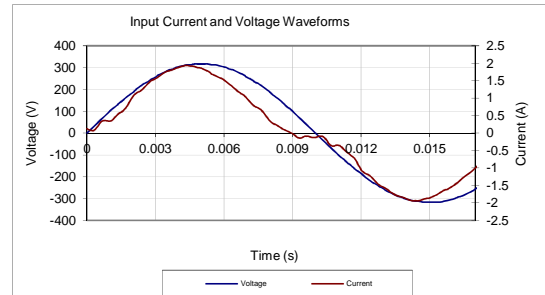
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>93.53%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>92.32%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	EU-179
<b>Manufacturer</b>	SAMA
<b>Model Number</b>	ETX-500-2
<b>Serial Number</b>	N/A
<b>Year</b>	2015
<b>Type</b>	ATX12V
<b>Test Date</b>	11/23/15

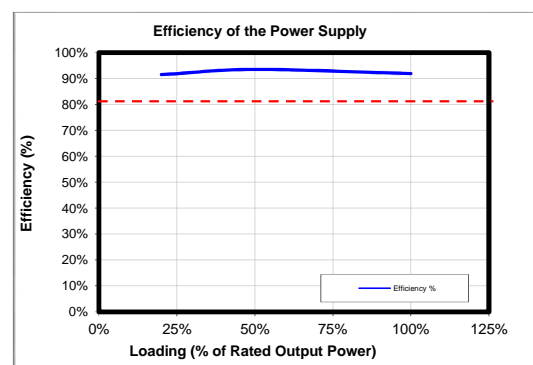
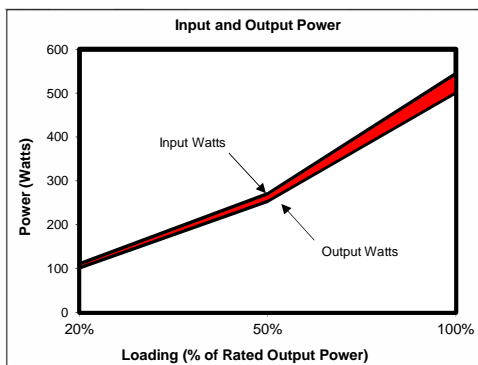
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12-6	Amps
Input Frequency	63-47	Hz
<b>Rated Output Power</b>	<b>500</b>	<b>Watts</b>

Note: All measurements were taken with input voltage at 230 V nominal at 50 Hz.



Input AC Current Waveform (THD = 20.58%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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
0.30	0.86	39.65%	10%	58.93	12.18/3.37		11.97/0.03	3.42/1.01	5.1/1.01	5.1/0.21	51.02	86.57%
0.52	0.93	29.68%	20%	111.23	12.17/6.73		11.97/0.05	3.41/2.02	5.08/2.01	5.08/0.42	101.78	91.51%
1.21	0.97	20.58%	50%	270.50	12.12/16.82		11.63/0.13	3.38/5.05	5.04/5.01	5.03/1.05	253.01	93.53%
2.41	0.98	14.95%	100%	544.80	12.04/33.57		11.71/0.25	3.31/10.09	4.96/10.03	4.94/2.1	500.84	91.93%



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/>

