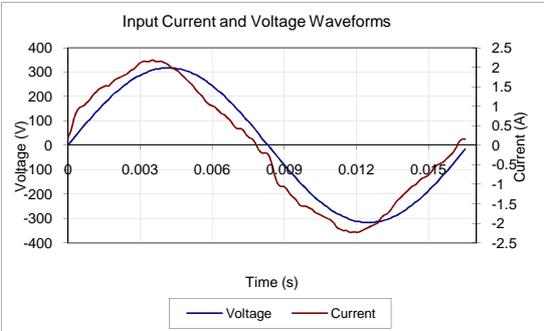


# 80 PLUS Verification and Testing Report

<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>89.85%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>88.19%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	SO-180.1
<b>Manufacturer</b>	iStarUSA Group
<b>Model Number</b>	IS-600E
<b>Serial Number</b>	E025GYG00004
<b>Year</b>	2010
<b>Type</b>	1U
<b>Test Date</b>	8/19/2010



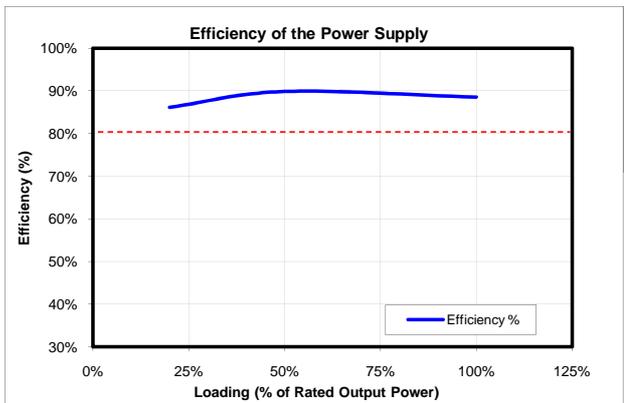
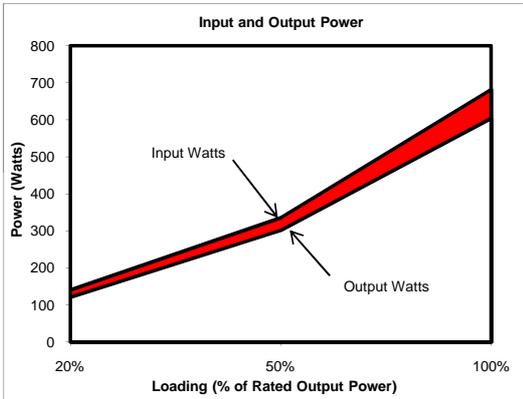
Input AC Current Waveform (ITHD = 8.61%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	<b>100-240</b>	Volts
Input Current	<b>10-5</b>	Amps
Input Frequency	<b>47-63</b>	Hz
<b>Rated Output Power</b>	<b>600</b>	<b>Watts</b>

Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	Load (%)	Fraction of Load	Input Watts	External Fan (W)**	DC Terminal Voltage (V)/ DC Load Current (A)		Output Watts	Efficiency %
							12V	5Vsb		
0.43	0.77	21.71	*10%	Low	77	1.68	12.13/4.87	5/0.35	61	79.11%
0.68	0.89	12.26	20%	Light	141	1.68	12.13/9.71	4.98/0.69	121	86.17%
1.50	0.97	8.61	50%	Typical	336	2.40	12.11/24.19	4.94/1.74	302	89.85%
3.00	0.99	8.58	100%	Full	682	4.92	12.06/48.59	4.9/3.48	604	88.56%

\* 10% load results are for informative purposes only and not included in certification requirements.  
 \*\* Fan power is not included in the efficiency calculations



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS<sup>®</sup> 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/>

