

## 80 PLUS Verification and Testing Report

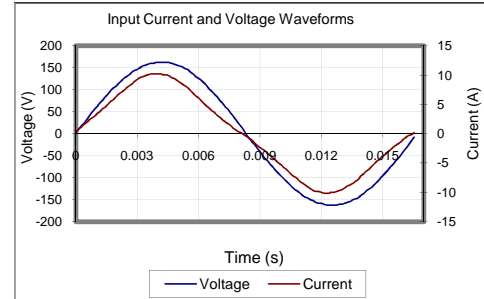
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>86.96%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>85.19%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>Ecos ID #</b>	827.1
<b>Manufacturer</b>	CHIEFTEC
<b>Model Number</b>	BPS-650C
<b>Serial Number</b>	NA
<b>Year</b>	2008
<b>Type</b>	ATX12V
<b>Test Date</b>	7/11/2008

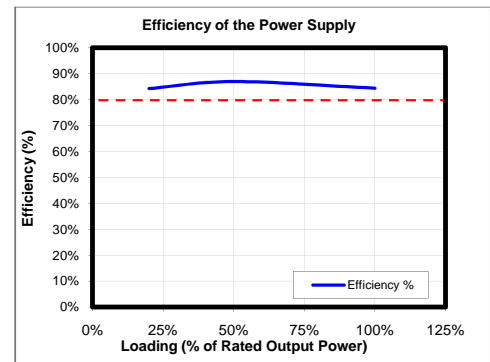
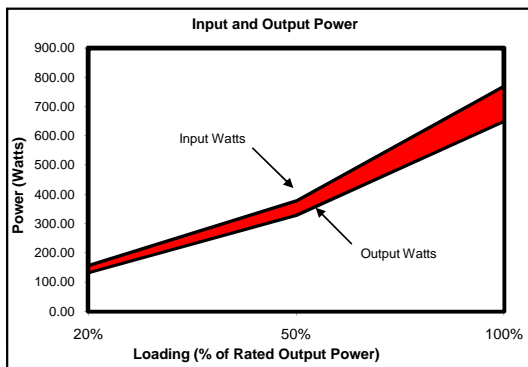
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8	Amps
Input Frequency	47-63	Hz
<b>Rated Output Power</b>	<b>650</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 11.29%, 50% Load)

I <sub>RMS</sub> A	PF	I <sub>THD</sub> (%)	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
1.41	0.97	13.95%	20%	Light	156.84	12.2/8.8		12.2/0.1	3.3/2.7	5.2/2.6	5.1/0.4	132.09	84.22%
3.32	0.99	11.29%	50%	Typical	377.69	12.1/22		12.3/0.2	3.3/6.9	5.1/6.4	5.1/0.9	328.45	86.96%
6.74	0.99	9.93%	100%	Full	770.56	12/43.9		12.4/0.5	3.2/13.7	5/12.8	5/1.8	650.17	84.38%



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/>

