

# 80 PLUS Verification and Testing Report

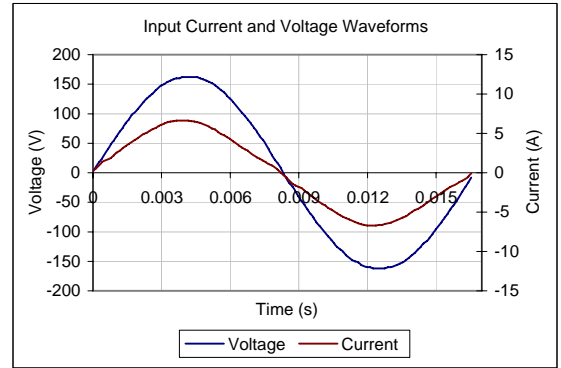


<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>84.64%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>83.04%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>

<b>Ecos ID #</b>	498
<b>Manufacturer</b>	be quiet!
<b>Model Number</b>	BQT P7-Pro-450W
<b>Serial Number</b>	S7481001654
<b>Year</b>	2008
<b>Type</b>	ATX12V
<b>Test Date</b>	1/10/2008

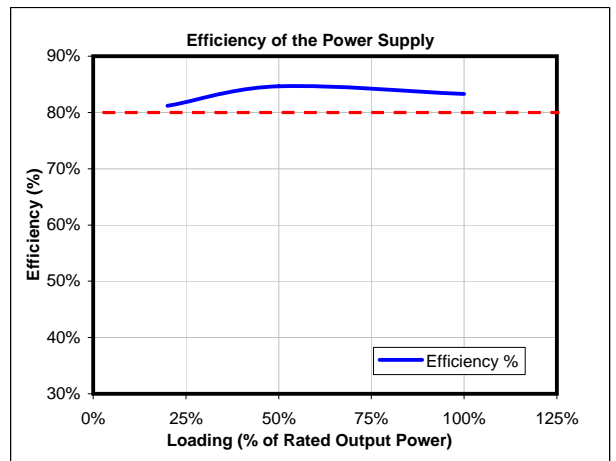
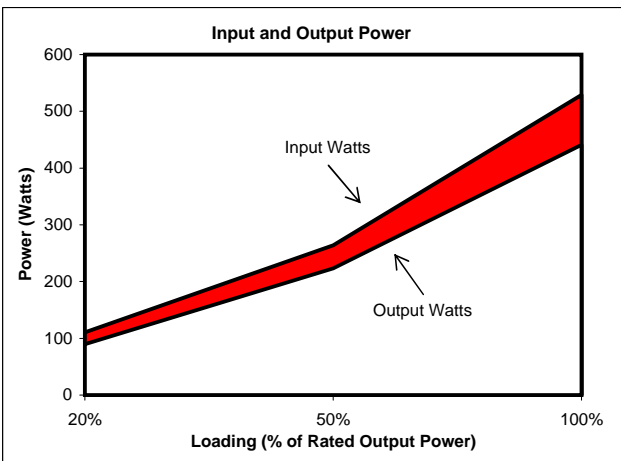
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	10	Amps
Input Frequency	50-60	Hz
<b>Rated Output Power</b>	<b>450</b>	<b>Watts</b>

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



Input AC Current Waveform (ITHD = 6.67%, 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
0.97	0.99	6.7%	20%	Light	111	11.9/5.1	11.9/0.1	3.3/2.6	5/3.2	5.1/0.6	90	81.19%
2.31	0.99	6.7%	50%	Typical	264	11.9/12.7	11.8/0.3	3.3/6.5	5/8.1	5/1.5	223	84.64%
4.61	1.00	5.2%	100%	Full	529	11.7/25.5	11.8/0.6	3.2/12.9	4.9/16.1	5/2.9	441	83.30%



These tests were conducted as a part of the 80 PLUS program. 80 PLUS is a computer buy-down program to promote high-efficiency power supplies (greater than 80% efficiency in the active mode) in desktop computers and desktop-derived servers.



Tested by Electric Power Research Institute, Knoxville, TN.