

## 80 PLUS Verification and Testing Report

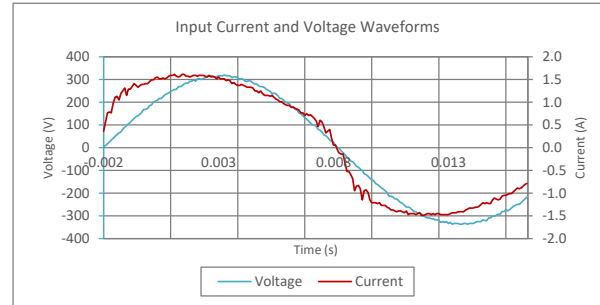
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>86.79%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>85.05%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	EU-772
<b>Manufacturer</b>	PC COOLERS SRL
<b>Model Number</b>	PULSAR 450W
<b>Serial Number</b>	N/A
<b>Year</b>	2020
<b>Type</b>	ATX12V
<b>Test Date</b>	12/10/20

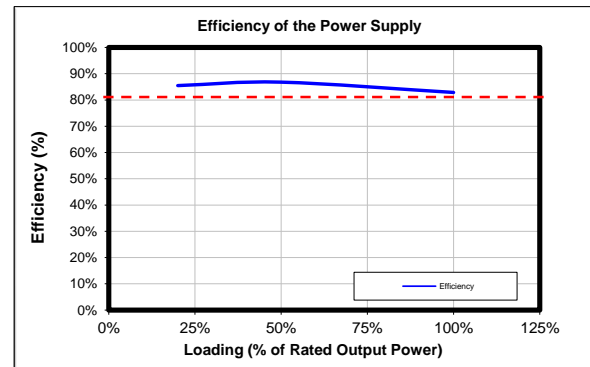
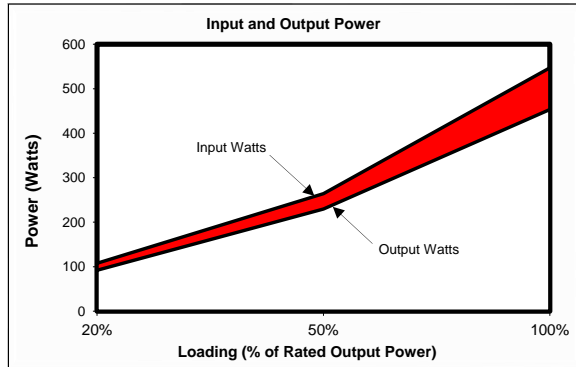
Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	4	Amps
Input Frequency	50/60	Hz
<b>Rated Output Power</b>	<b>450</b>	<b>Watts</b>

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



Input AC Current Waveform (I<sub>THD</sub> = 16.18%, 50% Load)

I <sub>RMS</sub>	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		
0.31	0.82	35.74%	10%	57.52	12.26/2.95	12.19/0.04	3.39/1.16	5.19/0.87	5.11/0.22	46.17	80.27%
0.50	0.93	7.92%	20%	107.76	12.25/5.88	12.17/0.09	3.38/2.33	5.16/1.73	5.09/0.43	92.11	85.48%
1.19	0.97	16.18%	50%	264.40	12.2/14.74	12.19/0.22	3.35/5.81	5.1/4.32	5.02/1.08	229.46	86.79%
2.41	0.99	10.01%	100%	547.00	12.09/29.46	12.34/0.43	3.3/11.64	5/8.64	4.88/2.16	453.31	82.87%



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/>

