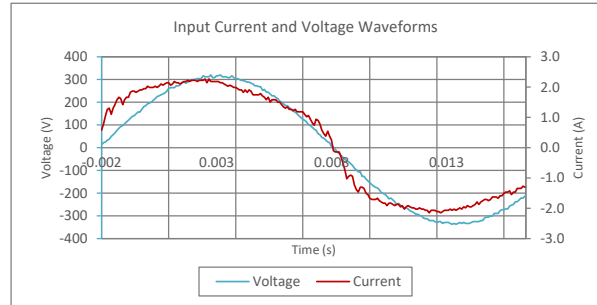


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	87.87%
AVERAGE EFFICIENCY :	86.41%
80 PLUS COMPLIANT:	YES



ID Number	EU-774
Manufacturer	PC COOLERS SRL
Model Number	PULSAR 650W
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	12/10/20

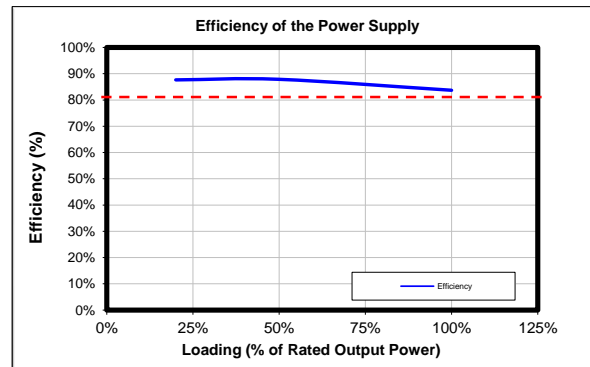
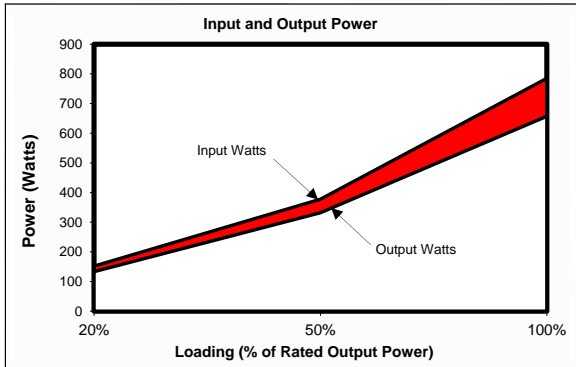


Input AC Current Waveform (ITHD = 115.8%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	200-240	Volts
Input Current	6	Amps
Input Frequency	50/60	Hz
Rated Output Power	650	Watts

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

I _{RMS}	PF	I _{THD}	Load	Input Watts	DC Terminal Voltage (V) DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)						
0.40	0.88	27.33%	10%	79.75	12.27/4.48	12.18/0.05	3.4/1.23	5.16/1.11	5.12/0.23	66.72	83.66%
0.69	0.96	8.85%	20%	151.79	12.26/8.97	12.18/0.09	3.39/2.46	5.14/2.2	5.1/0.46	133.06	87.66%
1.69	0.98	115.80%	50%	377.80	12.22/22.49	12.13/0.23	3.36/6.16	5.09/5.48	5.04/1.14	331.96	87.87%
3.45	0.99	7.56%	100%	785.10	12.13/44.93	12.15/0.46	3.31/12.32	5/10.96	4.9/2.28	657.18	83.71%



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/>

