

# 80 PLUS Verification and Testing Report

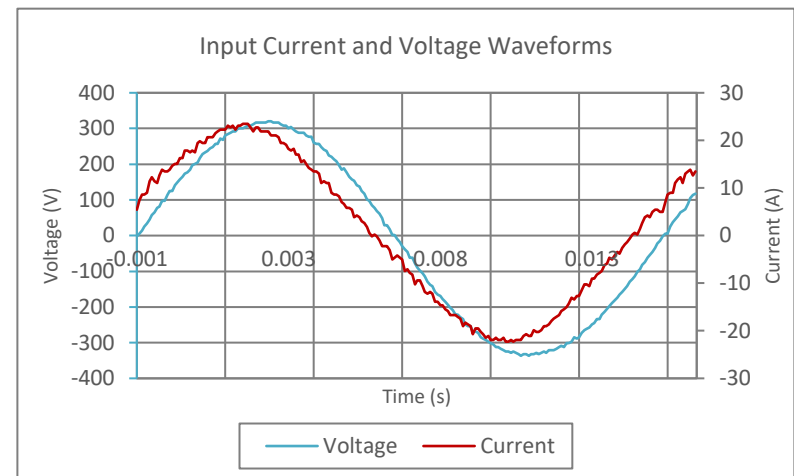
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>94.07%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>93.03%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	SO-1682
<b>Manufacturer</b>	Compuware Technology Inc.
<b>Model Number</b>	CDR-6511-1Mx
<b>Serial Number</b>	N/A
<b>Year</b>	2020
<b>Type</b>	1U
<b>Test Date</b>	04/08/20

Rated Specifications	Value	Units
Input Voltage	100-127 / 200-240	Volts
Input Current	7-5.5 / 4-3	Amps
Input Frequency	50-60	Hz
Rated Output Power	650	Watts

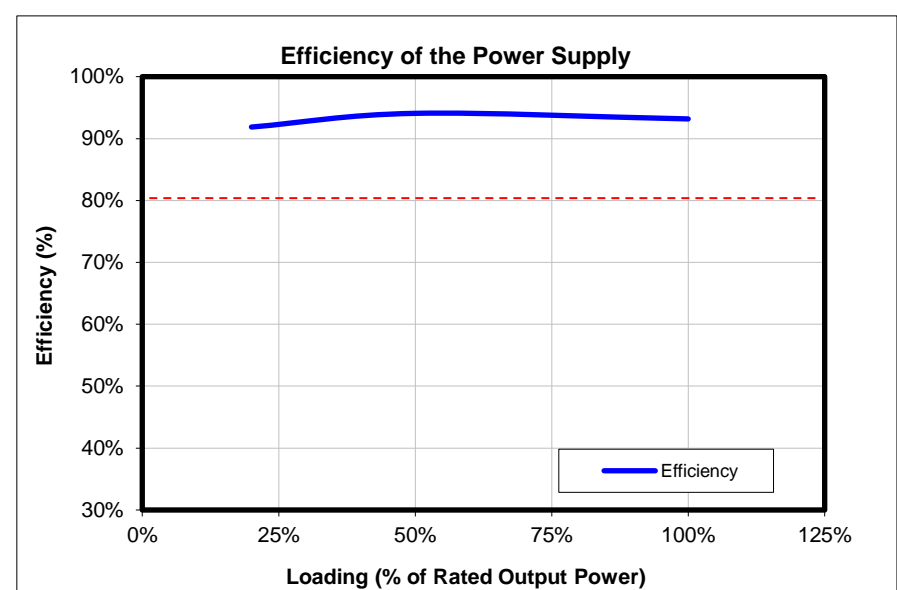
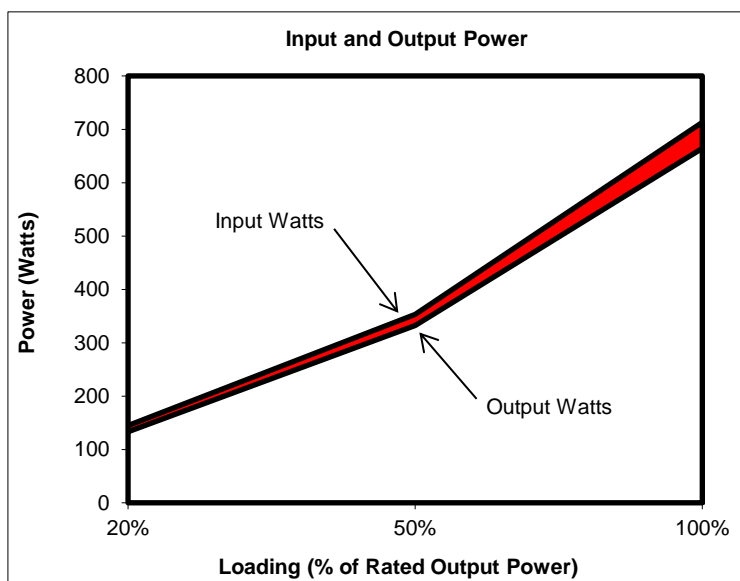
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 4.64%, 50% Load)

I <sub>RMS</sub>	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		
0.40	0.82	8.62%	10%	Low	76	1.68	12.26/5.27	5.23/0.39	67	87.44%
0.68	0.93	6.01%	20%	Light	145	1.68	12.24/10.54	5.23/0.78	133	91.86%
1.56	0.98	4.64%	50%	Typical	353	1.68	12.22/26.34	5.21/1.95	332	94.07%
3.12	0.99	3.73%	100%	Full	713	4.56	12.23/52.68	5.19/3.91	664	93.17%

\* 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® 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/>

