

# 80 PLUS Verification and Testing Report

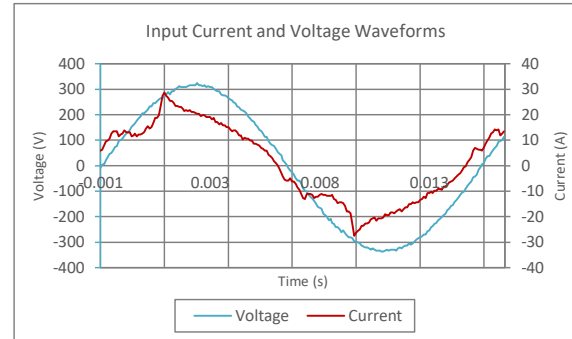
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>94.22%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>93.25%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	SO-1608
<b>Manufacturer</b>	ABB
<b>Model Number</b>	MPR0712TER12Z01A
<b>Serial Number</b>	19CS23009944
<b>Year</b>	2019
<b>Type</b>	1U
<b>Test Date</b>	09/27/19

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	9	Amps
Input Frequency	47-63	Hz
Rated Output Power	650	Watts

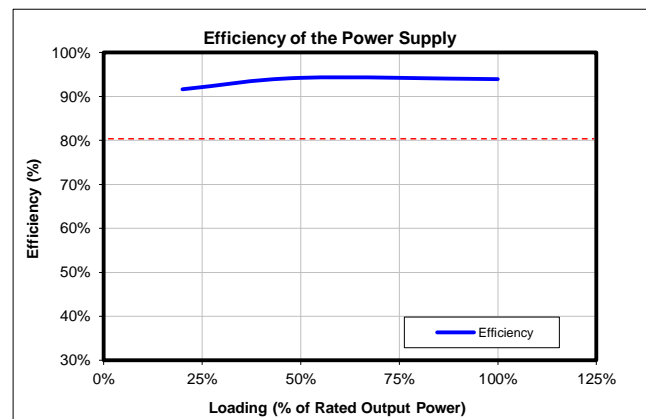
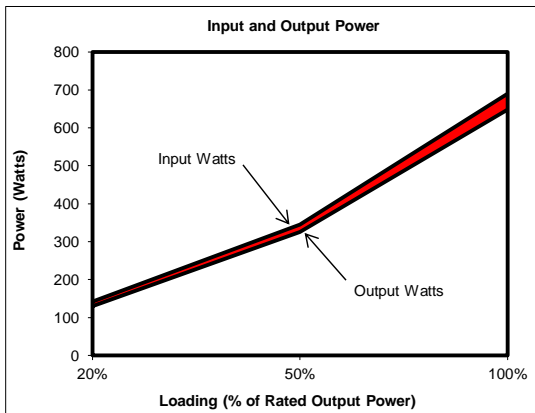
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 14.73%, 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	12Vsb		
0.39	0.83	46.41%	10%	Low	75	1.56	12.02/5.24	12.01/0.19	65	86.57%
0.69	0.90	47.35%	20%	Light	142	1.56	12.01/10.47	11.98/0.39	130	91.62%
1.53	0.98	14.73%	50%	Typical	345	1.80	11.99/26.18	11.92/0.97	325	94.22%
3.02	0.99	3.94%	100%	Full	690	4.44	11.94/52.36	11.81/1.94	648	93.92%

\* 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/>

