

# 80 PLUS Verification and Testing Report

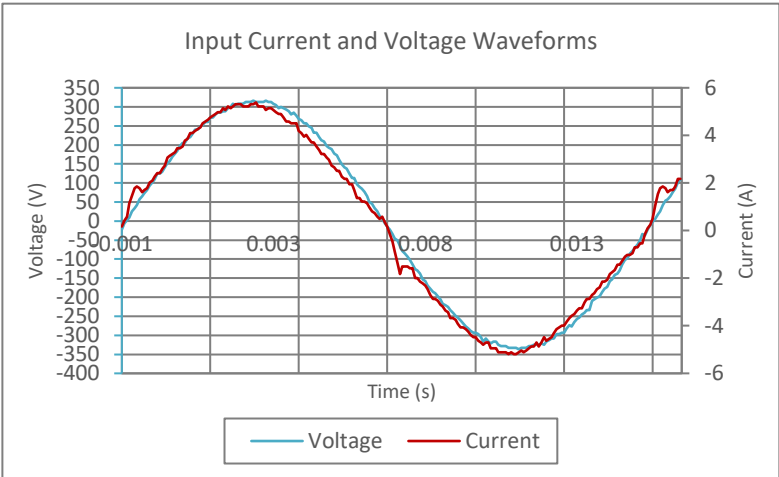
<b>TYPICAL EFFICIENCY (50% Load):</b>	<b>96.30%</b>
<b>AVERAGE EFFICIENCY :</b>	<b>95.47%</b>
<b>80 PLUS COMPLIANT:</b>	<b>YES</b>



<b>ID Number</b>	SO-1302
<b>Manufacturer</b>	Murata Power Solutions, Inc
<b>Model Number</b>	MPS8178
<b>Serial Number</b>	CA7700006XC2
<b>Year</b>	2017
<b>Type</b>	CUSTOM
<b>Test Date</b>	08/17/17

Rated Specifications	Value	Units
Input Voltage	100-120 / 200-240	Volts
Input Current	12 / 9	Amps
Input Frequency	50/60	Hz
Rated Output Power	1,638	Watts

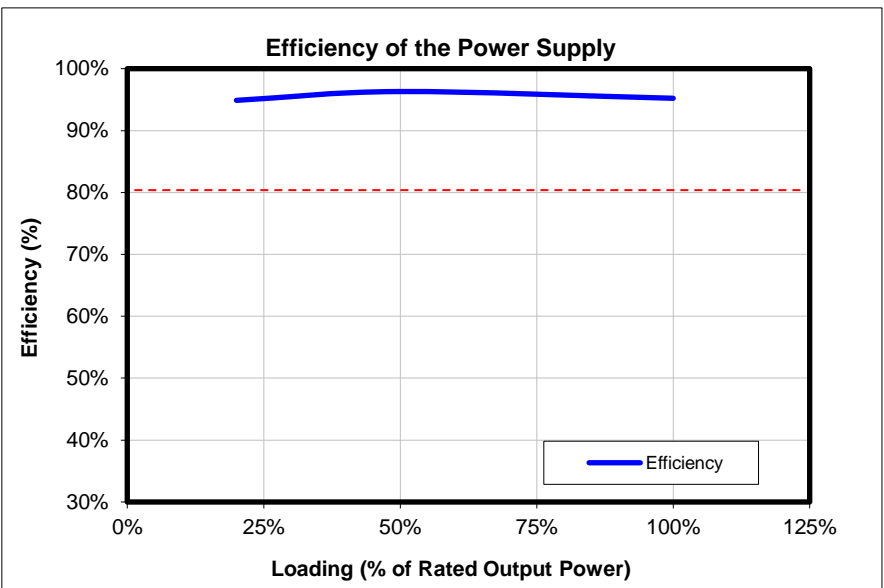
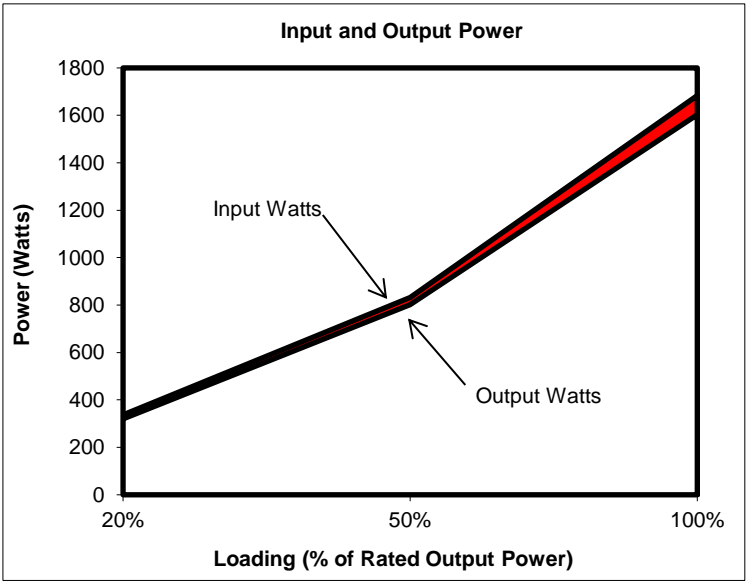
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 4.33%, 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		
0.81	0.92	13.03%	10%	Low	173	0.84	11.99/13.03	11.97/0.35	160	92.80%
1.52	0.97	6.03%	20%	Light	338	0.84	12/26.04	11.97/0.69	321	94.88%
3.64	0.99	4.33%	50%	Typical	832	2.64	12/65.1	11.93/1.72	801	96.30%
7.35	1.00	3.30%	100%	Full	1684	5.64	12/130.22	11.87/3.43	1603	95.21%

\* 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/>

