

# 80 PLUS Verification and Testing Report

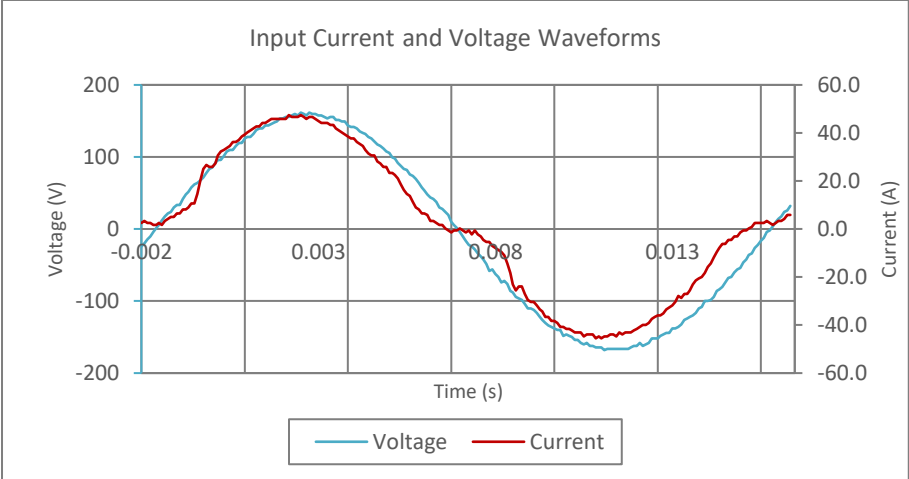
TYPICAL EFFICIENCY (50% Load):	87.31%
AVERAGE EFFICIENCY :	85.42%
80 PLUS COMPLIANT:	YES



ID Number	6078
Manufacturer	Mancer
Model Number	THUNDER 600
Serial Number	N/A
Year	2020
Type	ATX12V
Test Date	9/4/20

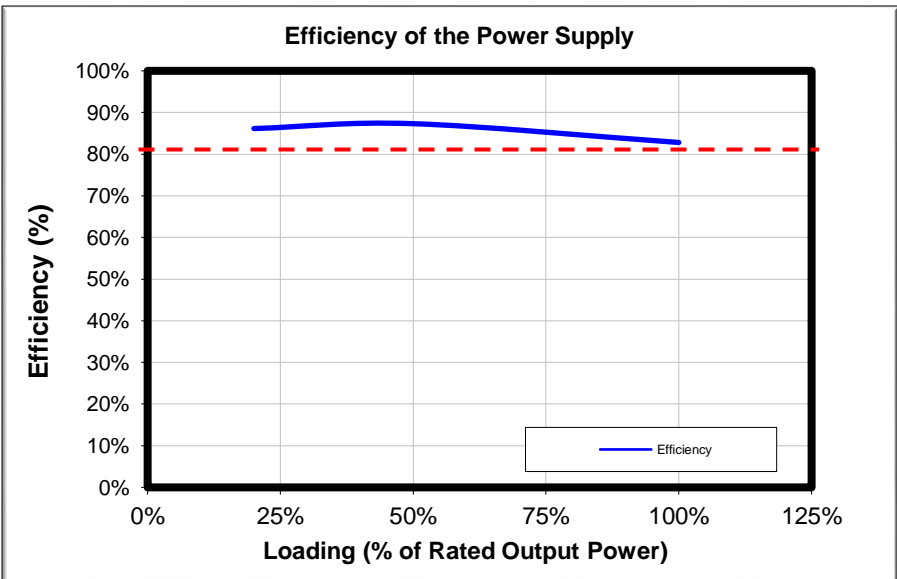
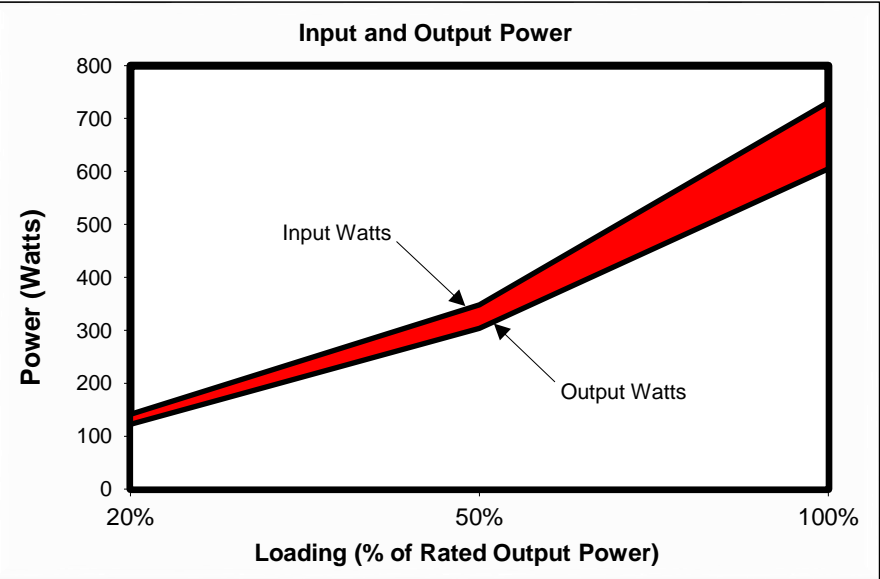
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	8-4	Amps
Input Frequency	47-63	Hz
Rated Output Power	600	Watts

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (ITHD = 14.3%, 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		
0.68	0.97	10.42%	10%	76.06	12.17/4.17	12.03/0.05	3.4/0.99	5.11/0.99	5.14/0.23	60.98	80.18%
1.25	0.99	5.48%	20%	141.60	12.15/8.38	11.99/0.09	3.4/1.97	5.09/1.96	5.13/0.45	121.98	86.14%
3.07	0.98	14.30%	50%	348.20	12.11/20.99	11.94/0.23	3.38/4.92	5.06/4.89	5.08/1.14	304.02	87.31%
6.45	0.98	11.76%	100%	730.80	12.07/41.97	11.98/0.45	3.35/9.87	4.98/9.76	5/2.27	605.10	82.80%



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/>

