

# 80 PLUS Verification and Testing Report

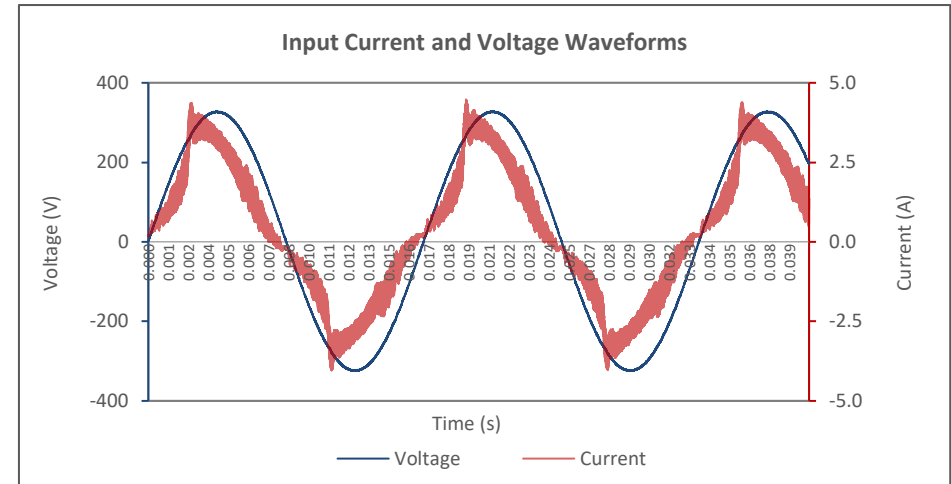
TYPICAL EFFICIENCY (50% Load):	94.47%
AVERAGE EFFICIENCY :	88.51%
80 PLUS COMPLIANT:	Platinum



ID Number	SO-2601
Manufacturer	UMEC
Model Number	UP8601B
Serial Number	TW4702266
Type	CUSTOM
Test Date	01/16/25

Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	12	Amps
Input Frequency	50-60	Hz
Rated Output Power	860	Watts

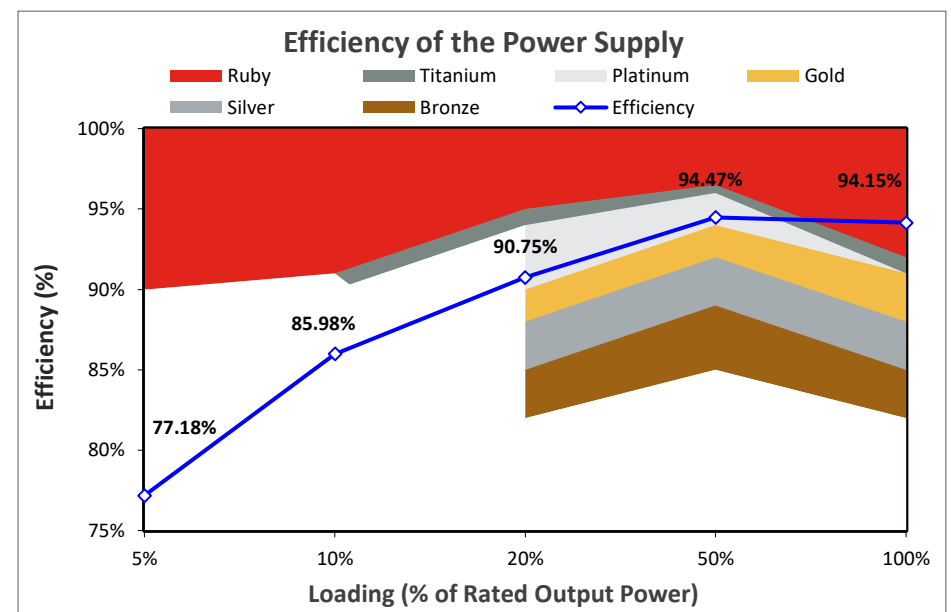
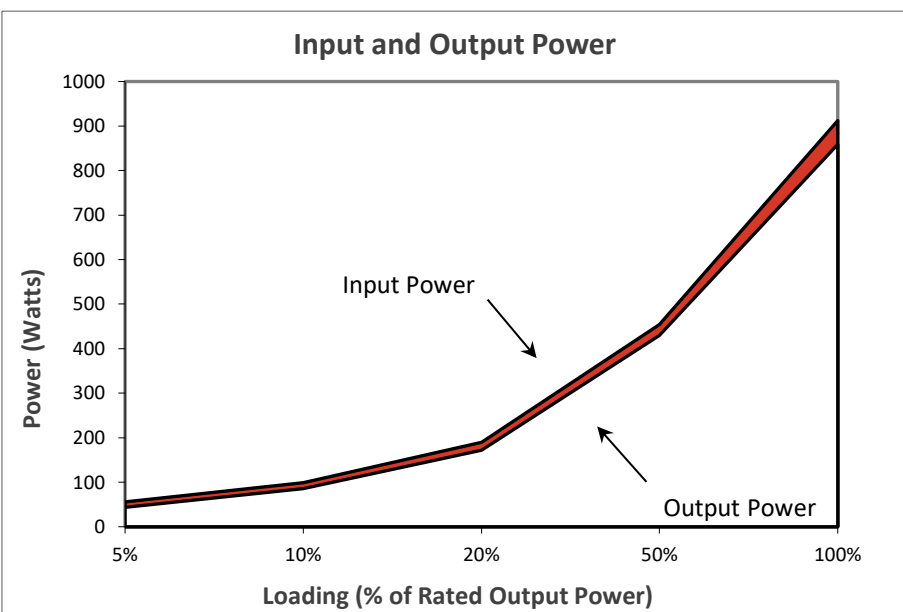
Note: All measurements were taken with input voltage at 230 V nominal and 60 Hz.



Input AC Current Waveform (ITHD = 21.7%, 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
							54.5V			
0.180	0.2515	18.505	0%	No-Load	10.39	59.72	No-Load			
0.336	<b>0.7229</b>	24.865	5%	Minimum	55.84	59.56	54.424/0.792		43.09	77.18%
0.520	<b>0.8311</b>	31.841	10%	Low	99.45	59.61	54.443/1.571		85.51	85.98%
0.917	<b>0.8979</b>	32.575	20%	Light	189.48	59.55	54.452/3.158		171.94	90.75%
2.066	<b>0.9563</b>	21.699	50%	Typical	454.55	59.49	54.429/7.890		429.43	94.47%
4.037	<b>0.9824</b>	10.905	100%	Full	912.15	59.37	54.377/15.793		858.78	94.15%

\* Fan power is not included in the efficiency calculations, external fan voltage applied = 12.01Vdc



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.  
<https://www.clearexult.com/80plus/> [clearexult.com]