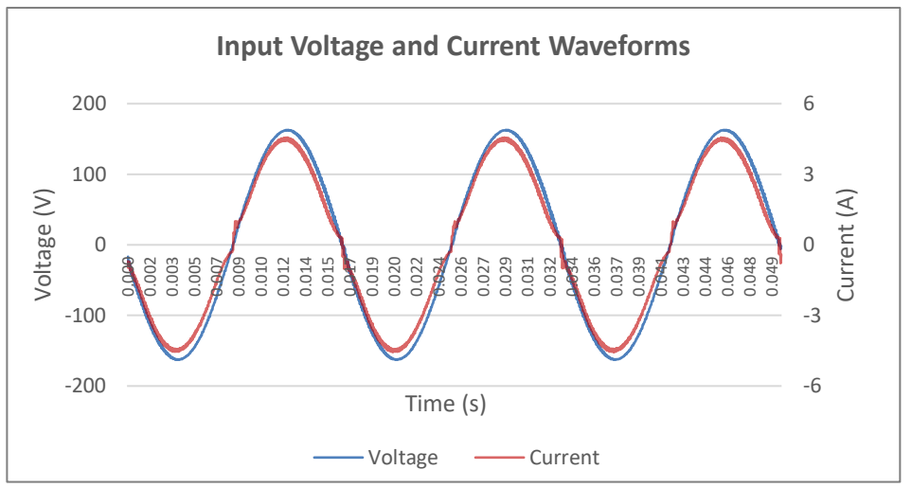
80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	**91.49%**
AVERAGE EFFICIENCY :	**86.28%**
80 PLUS COMPLIANT:	**Gold**



ID Number	7295
Manufacturer	Thermaltake
Model Number	TOUGHPOWER GX2 650W
Serial Number	N/A
Type	ATX12V
Test Date	2/6/24

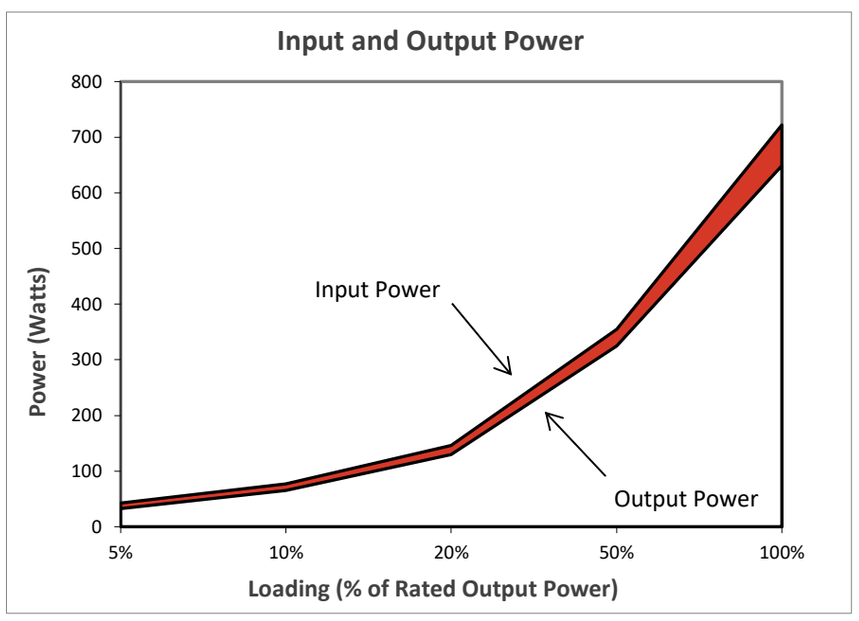


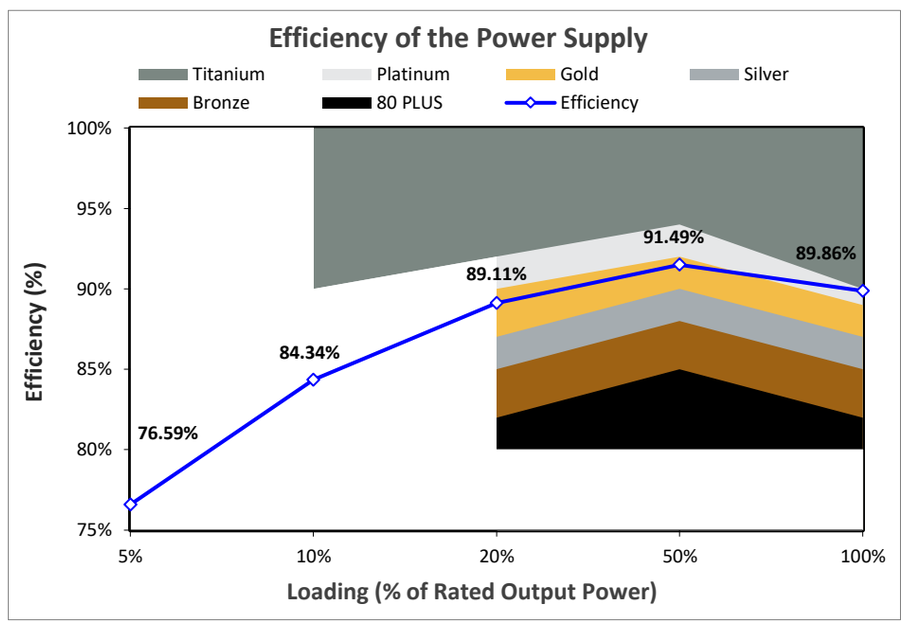
Input AC Current Waveform (ITHD = 4.42%, 50% Load)

Rated Specifications	Value	Units
Input Voltage	100-240	**Volts**
Input Current	10-5	**Amps**
Input Frequency	50-60	**Hz**
Rated Output Power	650	**Watts**

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

I_{RMS} (A)	PF	I_{THD} (%)	Load	Input Watts	DC Terminal Voltage (V)/ DC Load Current (A)					Output Watts	Efficiency
					12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5Vstb		
0.102	0.4915	42.29	0%	**5.78**	**No-Load**						
0.396	**0.9335**	18.26	5%	**42.47**	11.98/2.29	11.92/0.013	3.37/0.51	5.03/0.51	5.11/0.127	**32.53**	**76.59%**
0.689	**0.9727**	11.87	10%	**77.14**	11.98/4.58	11.94/0.025	3.37/1.02	5.03/1.02	5.1/0.254	**65.06**	**84.34%**
1.281	**0.9912**	6.53	20%	**146.00**	11.98/9.16	11.98/0.051	3.38/2.04	5.03/2.04	5.09/0.508	**130.10**	**89.11%**
3.095	**0.9977**	4.42	50%	**355.15**	11.96/22.9	12.13/0.127	3.39/5.1	5.05/5.1	5.05/1.27	**324.94**	**91.49%**
6.288	**0.9990**	3.43	100%	**722.05**	11.94/45.8	12.37/0.254	3.4/10.2	5.05/10.2	4.99/2.54	**648.84**	**89.86%**





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/*