80 PLUS Verification and Testing Report

TVDICAL EFFICIENCY (FOO/ Lond)	01 409/
TYPICAL EFFICIENCY (50% LOad):	91.49%
AVERAGE EFFICIENCY :	86.28%
80 PLUS COMPLIANT:	Gold

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W thematicke		Mag	
NOUCHPO	TOUGHPOWER SERIES		
	* GX2 650W		, ,

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

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	DC Terminal Voltage (V)/ DC Load Current (A)					Output	
				Watts	12V (cumulative of 12V1, 12V2, etc.)	-12V	3.3V	5V	5Vstb	Watts	Efficiency
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/*

