

Toughpower XT Gold 1475W



❖ Features

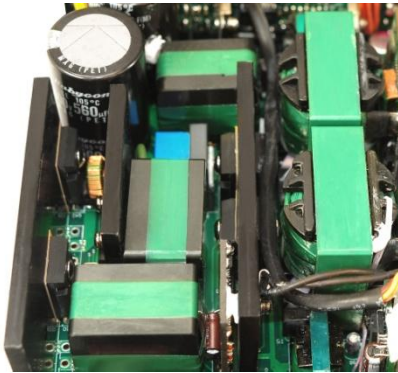
- Compliance with **Intel ATX 12V 2.3** & **SSI EPS 12V 2.92** standards.
- **80 PLUS Gold certified** – extreme efficiency PSU series with 87-93% efficiency @ 20-100% load to cut down electric cost.
- **24/7 @ 50°C**: Guaranteed to deliver 1475W continuous power.
- **S.P.T. Indicator**: PSU status monitor with 3-mode LED (standby / PG signal / temperature).
- **High quality 105°C Japanese capacitors**: ensure superb performance and reliability.
- **105°C Solid state capacitors**: great stability at higher operating temperatures, frequencies and currents.
- **Full Bridge & LLC resonance circuit** with DC-DC module for extremely stable performance & reliability
- **Interleaved PFC circuit** provides extremely high PF value and high PSU efficiency.
- **Massive dual +12V rails: robust dual +12V rails** design providing up to 55A for 12V1 & 75A for 12V2.
- **Heavy-gauge 16 AWG High Current cable** at PCI-Express connectors reduce conducted resistance, increasing efficiency and improving power delivery
- **Multi-GPU ready**: 8 x PCI-E connectors support up to 4-way ATI CrossFireX™ and Nvidia SLI™.
- Auto switching circuitry for **universal AC input from 90-264V**.
- High reliability: MTBF>120,000 hours.
- Dimensions: 150mm(W)x86mm(H)x200mm(L).
- Heavy-duty protection circuitry of Over Current, Over Power, Over Voltage, Under Voltage, and Short-Circuit protection.
- Safety / EMI Approvals: CE, TUV, FCC, UL, CUL, GOST and BSMI certified.

Toughpower XT Gold 1475W

❖ Technology Features

•High Quality Japanese Made Electrolytic & Solid Capacitors

Toughpower XT GOLD features 105°C/221°F Japanese made electrolytic capacitors & solid state capacitors with low ESR, which greatly improves the durability and offers the highest stability and reliability.



•Full Bridge & LLC Resonance and Interleaved PFC Circuit Design

Toughpower XT GOLD adopts full bridge & LLC resonance circuit for extremely stable performance & reliability. Besides, built in the interleaved PFC circuit, Toughpower XT GOLD also provides extremely high PF value and high PSU efficiency.

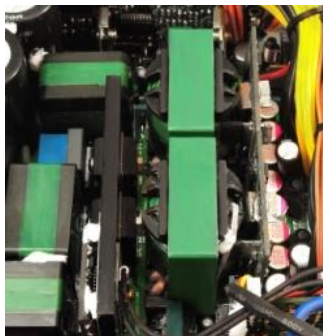
•S.P.T. Indicator: Quick Status Monitor



When you open the side panel of your chassis every time, you can see the PSU status quickly and easily. S.P.T. Indicator with 3-mode LED (standby / power good signal / temperature) for real-time monitoring over the power supply not only helps users to know the PSU working status, but also prevents the abnormal situation to protect the system.

Indicator	Color	Power Supply Status
Standby	Green	Normal +5VSB output
	Off	Abnormal +5VSB output
PG Signal	Green	Normal Power-Good signal
	Red	Abnormal power-Good signal
Temperature	Green	PSU not overheating (<100°C)
	Red	PSU overheating (>100°C)

Toughpower XT Gold 1475W



•Robust & Dedicated +12V Output

Powerful dual +12V rails to provide the best compatibility for your PC.

12V Rails Distribution

12V Rail Distribution	
24pin Main Connector	12V1
4+4pin +12V CPU Connector	12V1
8pin +12V CPU Connector	12V1
Peripheral & Floppy Connector	12V1
S-ATA Connector	12V1
6+2pin Modular PCI-E Connector x 6	12V2
8pin Modular PCI-E Connector x 2	12V2



•Modular Cable Management

Cable management design improves internal airflow and reduce clutter.

•Hybrid SLI / CrossFire X & Intel C6 State mode support :



ZERO LOAD	
+3.3V	0A
+5V	
+12V	
-12V	
+5VSB	



For best compatibility For C6 state CPU & Hybrid GPU mode

■C6 State CPU Mode

CPU load range from Max. to only 1W.

■Nvidia® & ATI/AMD multi graphic cards configuration

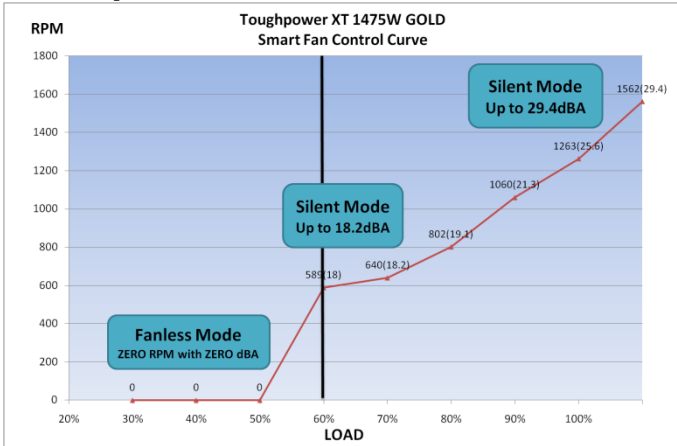
Hybrid mode will cause graphic cards load range from Max. to only 1W.

Toughpower XT GOLD & PLATINUM series are able to maintain an ultra tight DC regulation to support the C6 state CPU mode and the hybrid graphic card power saving mode by its ZERO LOAD (0W) Design.

Toughpower XT Gold 1475W

❖ Packaging

❖ Fan Speed & Noise Level

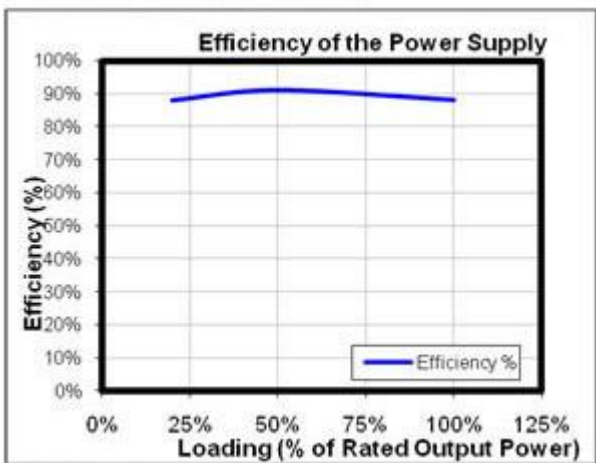


Smart Fan control circuitry design, which offers three distinct operation modes, fanless mode, silent mode, and cooling mode. The Toughpower XT 1475W automatically adjusts fan mode and speed according to the ambient temperature level.

This new design not only optimizes heat dissipation, but also keeps the most silent operation for your system by reducing unnecessary fan rotation.

❖ ECO Design

•80 Plus GOLD Certified



Toughpower XT Gold 1475W saves energy through its high energy efficiency up to 93% and is 80 PLUS® Gold certified

•ErP Ready

Toughpower XT 1475W fulfils the EU guideline for ErP (Energy-Related Products) that are scheduled to apply starting in 2010.

•Supports Energy Star 5.0* energy standard:

Toughpower XT 1475W is suitable for use in Energy Star-compatible computers.

•Supports Intel Deep Power Down C6 Status:

Toughpower XT 1475W helps your PC system operate more power efficiently.

•Corresponds to the EU directives on WEEE and RoHS:

Thermaltake considers its full impact on the environment during manufacturing and maintains green facilities to ensure Toughpower XT 1475W meets WEEE & RoHS requirements. 110407-001









Toughpower XT Gold 1475W

❖ Output Specification

P/N: TPX-1475M

AC INPUT	Input Voltage: 115V - 230V Input Current: 115Vac / 16A max. Frequency: 47Hz - 63Hz					
DC OUTPUT	+3.3V	+5V	+12V1	+12V2	-12V	+5VSB
Max Output Current	25A	25A	55A	75A	0.8A	4A
Max Output Power	150W		660W	900W	9.6W	20W
Total Power	1475W					

❖ Total Output Connector

P/N	MODEL	CABLE							
		 Main Power Connector (24PIN)	 EPS/ATX 12V Connector (4+4PIN)	 EPS 12V Connector (8PIN)	 Peripheral Connector (4PIN)	 FDD Connector (4PIN)	 SATA Connector (5PIN)	 PCI-E Connector (6+2PIN)	 PCI-E Connector (8PIN)
TPX-1475M	1475W	1	1	1	6	1	16	6	2

MODEL	Connector Type	Connectors & Cable length
1275W/1375W/1475W	24pin	1 x 24pin Main connector (550mm)
	EPS/ATX 12V 4+4pin	1 x EPS/ATX 12V 4+4pin connector (550mm)
	EPS 12V 8pin	1 x EPS 12V 8pin connector (550mm)
	Molex	3 x Peripheral connectors (550mm + 150mm + 150mm) 3 x Peripheral connectors (550mm + 150mm + 150mm)
	SATA	4 x S-ATA connectors (550mm + 150mm + 150mm) 4 x S-ATA connectors (550mm + 150mm + 150mm) 4 x S-ATA connectors (550mm + 150mm + 150mm) 4 x S-ATA connectors (550mm + 150mm + 150mm)
	PCI-E	6+2pin PCI-E connector (550mm) 6+2pin PCI-E connector (550mm) 6+2pin PCI-E connector (550mm) 6+2pin PCI-E connector (550mm) 1 x 8pin & 1 x 6+2pin PCI-E connectors (550mm + 150mm) 1 x 8pin & 1 x 6+2pin PCI-E connectors (550mm + 150mm)

NOTE: Floppy connector is attached to the end of the peripheral cable.

Toughpower XT Gold 1475W

GENERAL INFO	
P/N	TPX-1475M
Model	TP-1475AH3CCG
Type	ATX 12V 2.3 & SSI EPS 12V 2.92
Max. Output Capacity	1475W
Peak Output Capacity	1575W
Color	Black
Dimension (W/H/D)	150mm(W)x86mm(H)x200mm(L)
PFC	Active PFC
Power Good Signal	100-500 msec
Hold-up Time	16msec (minimum) at 70% of full load at 115Vac input
AC INPUT	
Input Current	115Vac / 16A max.
Input Frequency Range	47Hz ~ 63Hz
Input Voltage	115V - 230V
ENVIRONMENTAL	
Operating Temperature	10°C to +50°C
Operating Humidity	20% to 90%,non-condensing
Storage Temperature	-20°C to +70°C
Storage Humidity	5% to 95%, non-condensing
Cooling System	14cm dual ball bearing Fan: 1900RPM ± 10%
MISCELLANEOUS	
Efficiency	MEET 80 Plus Gold at 115Vac input.
MTBF	MTBF>120,000 hours.
Safety Approval	CE, TUV, FCC, UL, CUL, GOST and BSMI certified.
PCI-E Connector	6+2PIN PCI-E Connector x 6 8PIN PCI-E Connector x 2

Toughpower XT Gold 1475W

❖ Total Protection

Voltage Source	Over Current Protection	Over Voltage Protection	Under Voltage Protection
	Protection Point	Protection Point	Protection Point
+3.3V	33A~50A	4.5 Vmax.	2.0 Vmin.
+5V	33A~50A	7.0 Vmax.	3.3 Vmin.
+12V	135A~185A	15.6 Vmax.	8.5 Vmin
Over Power Protection: Protection at 110%~150% full load			
Short Circuit Protection: All output to GND.			