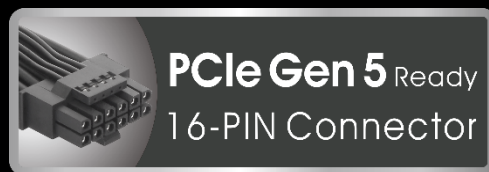




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TOUGHPower SERIES
POWER SUPPLY

TOUGHPower GF3 1000W



TOUGHPower GF3 1000W

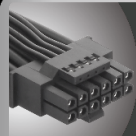
DATASHEET



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TOUGHPOWER SERIES POWER SUPPLY

TOUGHPOWER GF3 1000W



PCIe Gen 5 Ready
16-PIN Connector

ATX 3.0 Compatible

Smart Zero Fan

100% Japanese
Capacitors

10 YEAR
Warranty



Features

- PCIe Gen 5 ready, designed with native PCIe 12+4pin modular interface.
- Compatible with Intel ATX 3.0 specification.
- 80 PLUS Gold Certified up to 90% efficiency.
- 135mm fluid bearing fan.
- 100% Premium quality 105°C Japanese capacitors.
- < 30mV low ripple noise design.
- Extremely strict voltage regulation < $\pm 2\%$.
- >17ms hold-up time.
- Fully modular low-profile flat black cables.
- Smart Zero Fan: Minimizes undesired noise.
- High amperage single +12V rail design.
- DC-DC design for more precise electrical output.
- Intel C6/C7 states & ErP ready.
- Built-in industry grade protections: OCP, OVP, UVP, OPP, SCP, OTP.
- Dimensions: 150mm(W)x86mm(H)x160mm(D).
- Safety approvals: CE/UKCA/cTUVus/TÜV/FCC/IC/BSMI/EAC/CB/CCC certifications.



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TOUGHPower SERIES POWER SUPPLY

TOUGHPower GF3 1000W

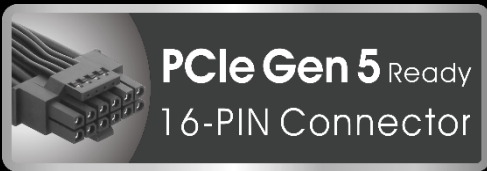
Highlighted Features

ATX 3.0 Compatible

Fully Compatible With ATX 3.0 Specifications

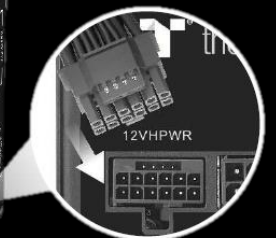
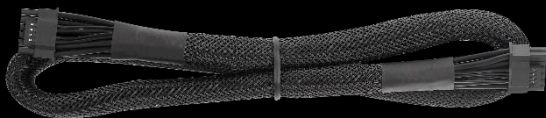
Meets all the needs of a computer system, providing powerful and stable power.

- Supports 200% power excursion
- Reaches 70% low load efficiency
- Complies with required power supply timing standards



PCIe Gen 5 Ready
16-PIN Connector

Designed with native 12+4pin 12VHPWR, and bundled with a PCIe Gen 5 cable



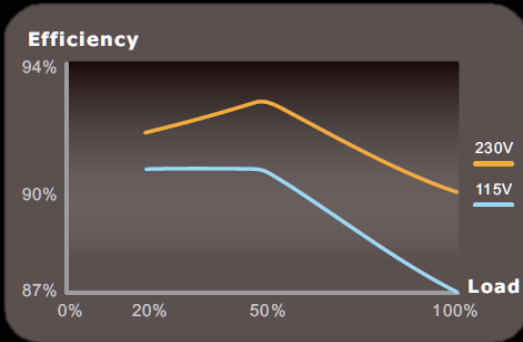


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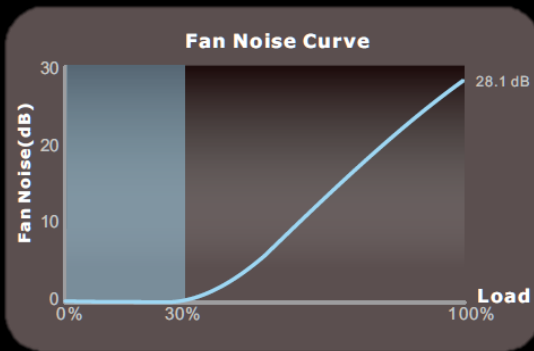
TOUGHPower SERIES POWER SUPPLY

TOUGHPower GF3 1000W

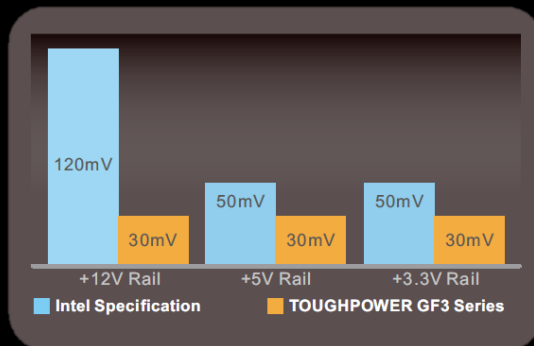
Highlighted Features



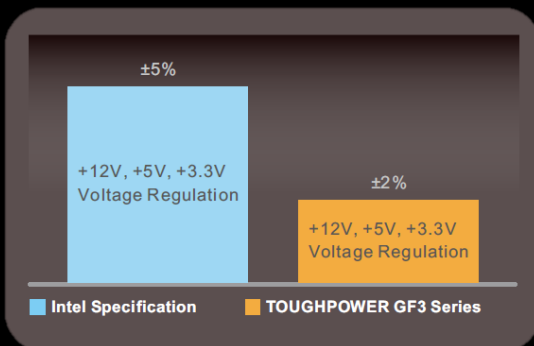
80 PLUS Gold Certified Efficiency
Delivers top end efficiency under real world load conditions.



Ultra Quiet Smart Zero Fan
Minimize undesired noise.



< 30mV Low Ripple Noise Design
Top-end build quality with low ripple noise.



Extremely Strict Voltage Regulation < ±2%
Provides steady clean power through exceptional voltage stability.

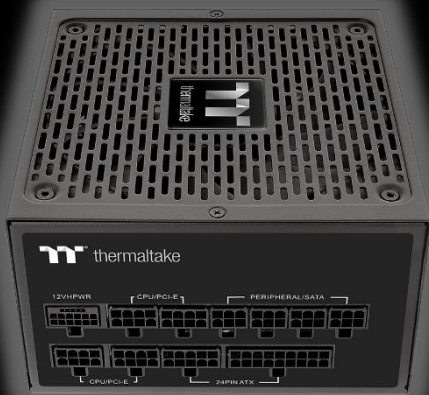


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TOUGHPOWER SERIES
POWER SUPPLY

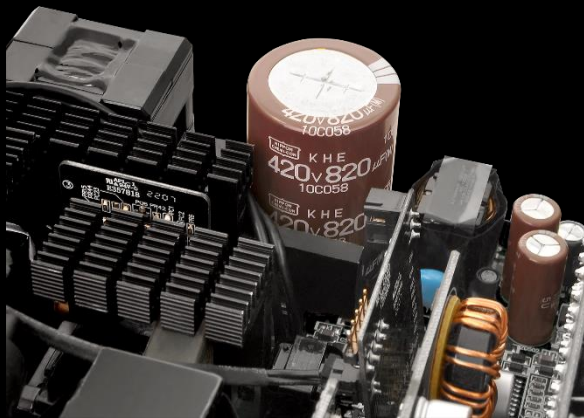
TOUGHPOWER GF3 1000W

Highlighted Features



Fully Modular, Low-Profile Flat Black Cables

Makes cable management easier, reduces clutter and increases airflow inside the chassis.



100% High Quality Japanese 105°C/221°F Capacitors.

Improves the durability and offers the highest stability and reliability.



High Amperage Single +12V Rail & DC to DC Design

Powerful single +12V rail and DC to DC design for the best compatibility.

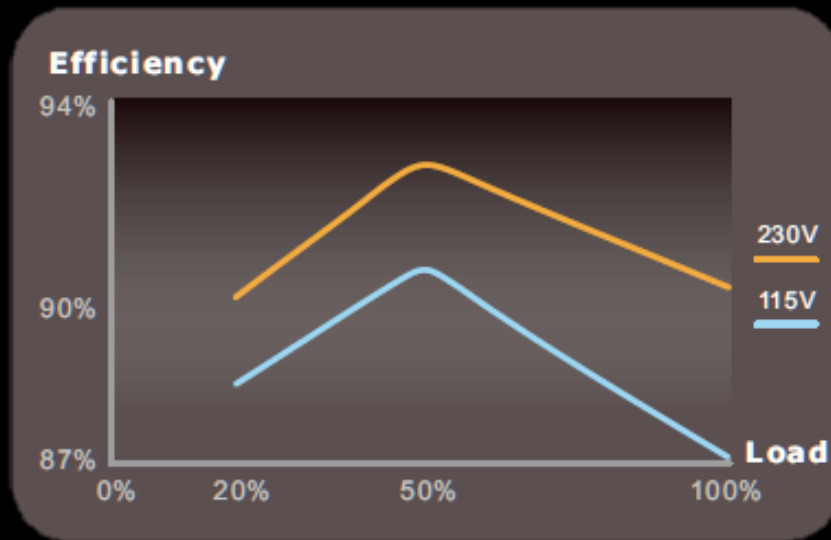


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TOUGHPOWER SERIES POWER SUPPLY

TOUGHPOWER GF3 1000W

Eco Design



80 PLUS® Gold Certified Efficiency

Delivers top end efficiency under real world load conditions.

Supports Energy Star 5.0* energy standard

Toughpower GF3 series is suitable for use in Energy Star-compatible computers.

Supports Intel Deep Power Down C6 Status

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 GF3 series meets WEEE & RoHS requirements.



TOUGHPower SERIES

POWER SUPPLY

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TOUGHPower GF3 1000W

Output Specification

P/N: PS-TPD-1000FNFAgX-4



AC Input	Input Voltage: 100V - 240V~ Input Current: 13.0A / 6.5A Frequency: 50/60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	22.0A	22.0A	83.5A	0.3A	3.0A
Max Output Power	120W		999.6W	3.6W	15W
Total Power	1000W				

Connector Specification

Connector							
Wattage	Main Power Connector (24Pin)	ATX 12V (8/4+4Pin)	SATA (5Pin)	PCIe (6+2Pin)	PCIe (12+4Pin)	Peripheral (4Pin)	FDD Adapter
1000W	1	2	12	4	1	4	1

Wattage	Connector Type	Connector Quantity & Cable Length
1000W	Main Power (24Pin)	1 x 24Pin Main connector (600mm)
	ATX 12V (8/4+4Pin)	1 x ATX 12V 8Pin connector (700mm) 1 x ATX 12V 4+4Pin connectors (700mm)
	PCIe (6+2Pin)	2 x PCIe 6+2Pin connectors (500mm + 150mm) 2 x PCIe 6+2Pin connectors (500mm + 150mm)
	PCIe (12+4Pin)	1 x PCIe 12+4Pin connectors (500mm)
	SATA	4 x SATA connectors (500mm + 150mm + 150mm + 150mm) 4 x SATA connectors (500mm + 150mm + 150mm + 150mm) 4 x SATA connectors (500mm + 150mm + 150mm + 150mm)
	Peripheral	4 x Peripheral connectors (500mm + 150mm + 150mm + 150mm)
	Floppy Adapter	1 x Peripheral to floppy adapter cable (100mm)



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TOUGHPower SERIES
POWER SUPPLY**TOUGHPower GF3 1000W**

GENERAL INFO	
P/N	PS-TPD-1000FNFAgX-4
Model	TPD-1000AH3FCG
Max. Output Capacity	1000W
Color	Black
Dimension (W/H/D)	150mm(W) x 86mm(H) x 160mm(D)
Weigh (Main Body)	1.79 KG
PFC	Active PFC
Power Good Signal	100-150 msec
Hold-Up Time	> 17msec at 100% of full load
AC INPUT	
Input Current	13.0A / 6.5A
Input Frequency Range	50/60Hz
Input Voltage	100V – 240V~
ENVIRONMENTAL	
Operating Temperature	0°C to + 40°C
Operating Humidity	20% to 90%,non-condensing
Storage Temperature	-20°C to + 70°C
Storage Humidity	5% to 95%, non-condensing
Cooling System	13.5cm fluid bearing fan
MISCELLANEOUS	
Efficiency	Meet 80 PLUS®Gold at 115Vac input.
MTBF	100,000 hrs minimum
Safety Approval	CE/UKCA/cTUVus/TÜV/FCC/IC/BSMI/EAC/CB/CCC
PCIe CONNECTOR	
PCIe 6+2pin	4
PCIe 12+4pin	1



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TOUGHPOWER SERIES POWER SUPPLY

TOUGHPOWER GF3 1000W

Total Protection

Protections	Voltage Source		
	+3.3V	+5V	+12V
Over Voltage Protection	3.76V~4.5V	5.74V~7.0V	13.4V~15.6V
Under Voltage Protection	2.83V	4.47V	9.80V
Over Current Protection	180% max.	180% max.	150% max.
Over Power Protection	Protect at 110%~150% over peak load.		
Over Temperature Protection	Protection temperature is 50°C to 70°C at 115V and full load.		
Short Circuit Protection	Activated when any DC rails short circuited.		