



thermaltake

TOUGHPOWER SERIES
POWER SUPPLY

TOUGHPOWER GF A3



TOUGHPOWER GF A3

1200W

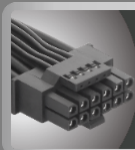
DATASHEET



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PCIe Gen 5 Ready
16-PIN Connector

ATX 3.0 Compatible

Smart Zero Fan

Main Japanese
Capacitors

10 YEAR
Warranty

Features

- Compatible with Intel ATX 3.0 specification and designed with native PCIe Gen 5.0 12+4pin modular interface.
- 1200W continuous output at 45°C/113°F operating environment.
- Fully Modular: High efficiency Zero Cable Platform with premium build quality.
- High quality Japanese 105°C/221°F main capacitors.
- Smart Zero Fan: Minimizes undesired noise.
- The voltage regulation are compatible with Intel standard.
- Ultra Quiet 120mm fluid bearing fan delivers excellent airflow.
- High amperage single +12V rail design.
- Intel C6/C7 states & ErP ready
- Built-in industry grade protections: OCP, OVP, UVP, OPP, SCP, OTP.
- Compact Sizing: 150mm(W)x86mm(H)x140mm(D).
- Safety approvals: CE/FCC/UKCA/ICES/LVD/TUV/cTUVus/CB/CCC/BSMI certifications.



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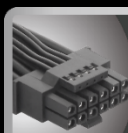
Highlighted Features

Fully Compatible With ATX 3.0 Specifications

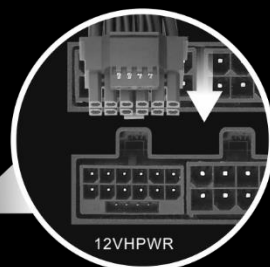
Meets all the needs of a computer system, providing powerful and stable power.

- Supports 200% power excursion
- Reaches 60% low load efficiency
- Complies with required power supply timing standards
- Designed with native 12+4pin 12VHPWR, and bundled with a PCIe Gen 5 cable

ATX 3.0 Compatible



PCIe Gen 5 Ready
16-PIN Connector



12VHPWR



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Highlighted Features

Main Japanese Capacitors

High Quality Japanese 105°C/221°F Main Capacitors

Improves the durability and offers the highest stability and reliability.

Smart Zero Fan

Ultra Quiet Smart Zero Fan

Adjusts the fan speed and minimizes undesired noise.



Fully Modular, Low-Profile Flat Black Cables

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

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

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

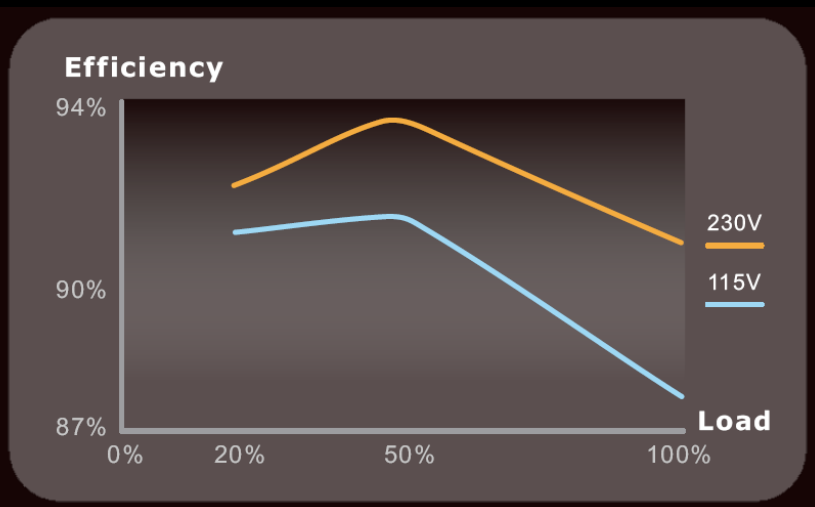


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Eco Design



80 PLUS® Golf Certified Efficiency

Delivers top end efficiency under real world load conditions.

Supports Energy Star 5.0* energy standard

Toughpower GF A3 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 GF A3 series meets WEEE & RoHS requirements.



Specification

AC Input	Input Voltage: 100 - 240Vac				
	Input Current: 15A Max.				
	Frequency: 50Hz - 60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	20A	20A	100A	0.3A	3A
Max Output Power	100W		1200W	3.6W	15W
Total Power	1200W				

GENERAL INFO

P/N	PS-TPD-1200FNFAgX-H
Model	TTP-1200AH2FKG
Max. Output Capacity	1200W
Color	Black
Dimension	150mm(W)x86mm(H)x140mm(D)
PFC	Active PFC
Power Good Signal	100-250 msec
Hold-Up Time	> 17msec
Cooling System	12cm FDB Fan
Weigh (Main Body)	1.48 KG

ENVIRONMENT

Operating Temperature	0°C to + 45°C
Operating Humidity	5% to 85%,non-condensing
Storage Temperature	-40°C to + 70°C
Storage Humidity	5% to 95%, non-condensing

MISCELLANEOUS

Efficiency	Meet 80 PLUS® Gold at 115Vac input.
MTBF	100,000 hrs minimum
Safety Approval	CE/FCC/UKCA/ICES/LVD/TUV/cTUVus/CB/CCC/BSMI

PCIe CONNECTOR

PCIe 6+2pin	5
PCIe 12+4pin (600W)	1



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Connector and Cable Specification

Connector Type	Connector Quantity		Cable Quantity	Cable Length
Main Power (24Pin)	X 1		X 1	600mm
ATX 12V (4+4Pin)	X 2		X 2	650mm
PCIe (6+2Pin)	X 5		X 1	500mm
			X 2	500mm+150mm
PCIe (12+4Pin) 600W	X 1		X 1	600mm
SATA (5Pin)	X 12		X 3	500mm+150mm +150mm+150mm
Peripheral (4Pin)	X 4		X 1	500mm+150mm +150mm+150mm
FDD Adapter	X 1		X 1	150mm



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Total Protection

Protections	Voltage Source		
	+3.3V	+5V	+12V
Over Voltage Protection	3.76~4.3V	5.74~7.0V	13.4~15.6V
Under Voltage Protection	2~2.83V	3.15~4.47V	8.1~10.5V
Over Current Protection	24~55A	24~55A	110~180A
Over Power Protection	Protection at 110%~170% over peak load.		
Over Temperature Protection	Protection temperature is 50°C~65°C		
Short Circuit Protection	Short circuit placed on +5V,+12V,+3.3V,-12V will latch off. +5VSB will auto-recovery.		