

TOUGHPOWER GF A3





TOUGHPOWER GF A3 750W

DATASHEET



TOUGHPOWER GF A3







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.
- 750W 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: FCC/ICES/CB/cTUVus certifications.



TOUGHPOWER GF A3

Highlighted Features

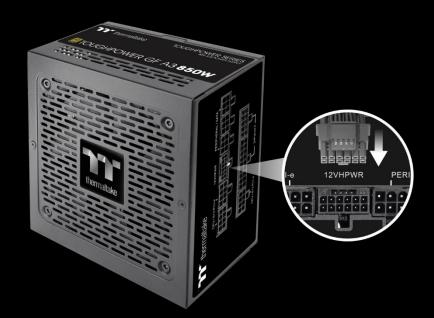
Fully Compatible With ATX 3.0 Specifications

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







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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.

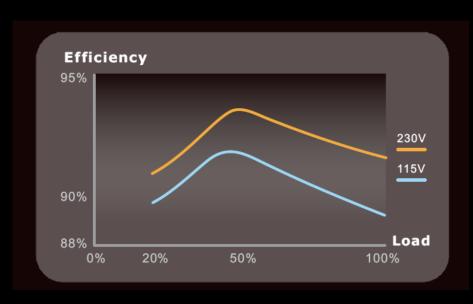
High Amperage Single +12V Rail & DC to DC Design

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.



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Specification

	Input Voltage: 100-240V \sim					
AC Input	Input Current: 15A-8A					
	Frequency: 50Hz/60Hz					
DC Output	+3.3V	+5V	+12V	-12V	+5VSB	
Max Output Current	20A	20A	62.5A	0.3A	3A	
Max Output Power	100W		750W	3.6W	15W	
Total Power	750W					

GENERAL INFO						
P/N	PS-TPD-0750FNFAGU-L					
Model	TTP-0750AH2FLG					
Max. Output Capacity	750W					
Color	Black					
Dimension	150mm(W)x86mm(H)x140mm(D)					
PFC	Active PFC					
Power Good Signal	100-150 msec					
Hold-Up Time	> 17msec					
Cooling System	12cm FDB Fan					
Weigh (Main Body)	1.54 KG					
	ENVIRONMENT					
Operating Temperature	5°C to + 45°C					
Operating Humidity	20% to 85%,non-condensing					
Storage Temperature	-40°C to + 55°C					
Storage Humidity	10% to 95%, non-condensing					
MISCELLANEOUS						
Efficiency	Meet 80 PLUS® Gold at 115Vac input.					
MTBF	100,000 hrs minimum					
Safety Approval	FCC/ICES/CB/cTUVus					
PCIe CONNECTOR						
PCIe 6+2pin	4					
PCIe 12+4pin (300W)	1					



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Connector and Cable Specification

Connector Co		Cable Quantity	Cable Length
Main Power (24Pin)	X 1	X 1	600mm
ATX 12V (4+4Pin)	X 2	X 1	650mm+150mm
PCle (6+2Pin)	X 4	X 2	500mm+150mm
PCle (12+4Pin) 300W	X 1	X 1	600mm
SATA (5Pin)	X 8	X 2	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			
rrotections	+3.3V	+5V	+12V	
Over Voltage Protection	3.76~4.3V	5.74~7.0V	13.4~15.6V	
Under Voltage Protection	2.0~2.6V	3.3~3.9V	8.5~9.7V	
Over Current Protection	24~32A	24~32A	100~125A	
Over Power Protection	Protection at 160%~200% over peak load.			
Over Temperature Protection	Protection temperature is 55°C~65°C			
Short Circuit Protection	Short circuit placed on +5V,+12V,+3.3V,-12Vwill latch off. +5VSB will auto-recovery.			