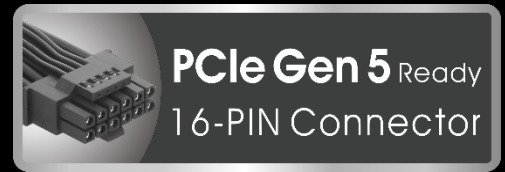




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TOUGHPower SERIES
POWER SUPPLY

TOUGHPower GF3 1350W



PCIe Gen 5 Ready
16-PIN Connector



TOUGHPower GF3 1350W

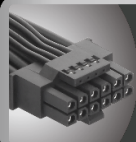
DATASHEET



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TOUGHPOWER SERIES POWER SUPPLY

TOUGHPOWER GF3 1350W



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.
- 100% Premium quality 105°C Japanese capacitors.
- Extremely strict voltage regulation $< \pm 3\%$ for +12V, +5V and +3.3V.
- $< 30\text{mV}$ low ripple noise design.
- $> 17\text{ms}$ hold-up time.
- Smart Zero Fan: Minimizes undesired noise.
- 140mm hydraulic bearing fan.
- Fully modular low-profile flat black cables.
- 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/BIS/KC certifications.



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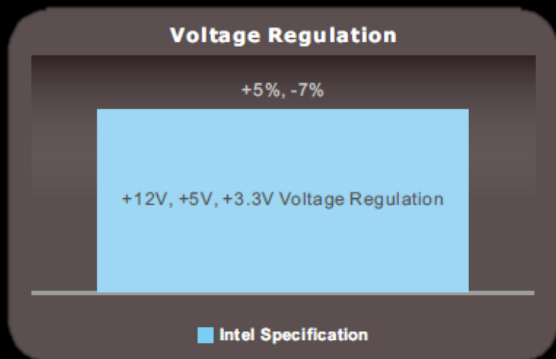
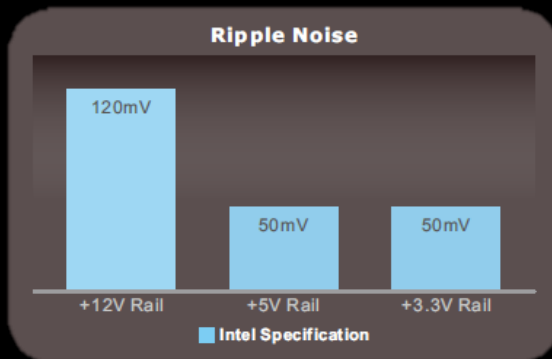
TOUGHPower GF3 1350W

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
- Top-end build quality with <30mV ripple noise.
- Toughpower GF3 1350W provides steady clean power through extremely strict voltage stability: <math>< \pm 3\%</math>
- >17ms hold-up time.

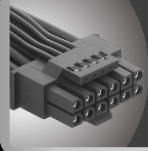


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TOUGHPOWER SERIES POWER SUPPLY

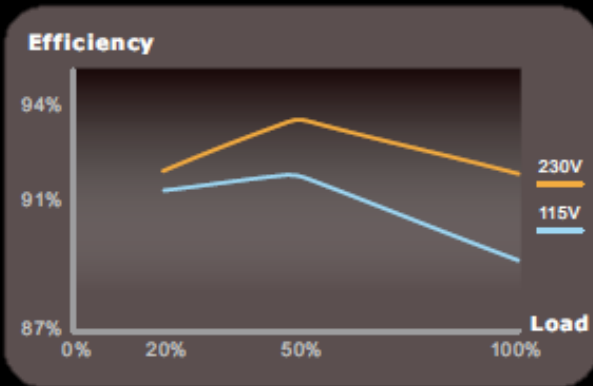
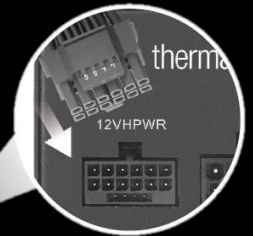
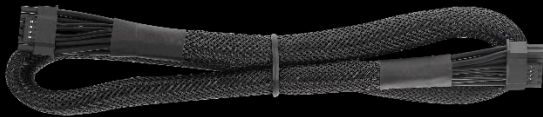
TOUGHPOWER GF3 1350W

Highlighted Features

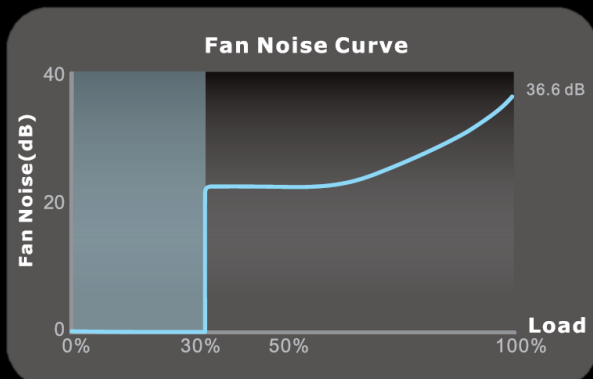


PCIe Gen 5 Ready
16-PIN Connector

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



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



Ultra Quiet Smart Zero Fan
Minimize undesired noise.



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TOUGHPOWER SERIES
POWER SUPPLY

TOUGHPOWER GF3 1350W

Highlighted Features



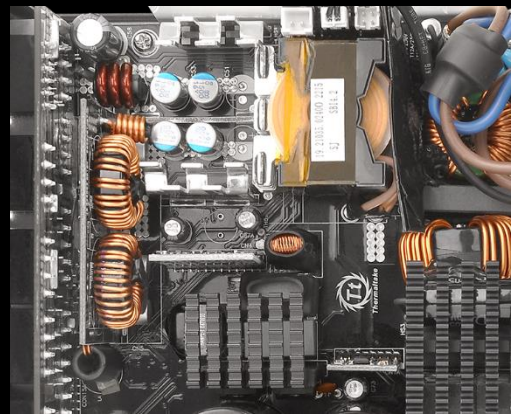
Fully Modular, Low-Profile Flat Black Cables

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.

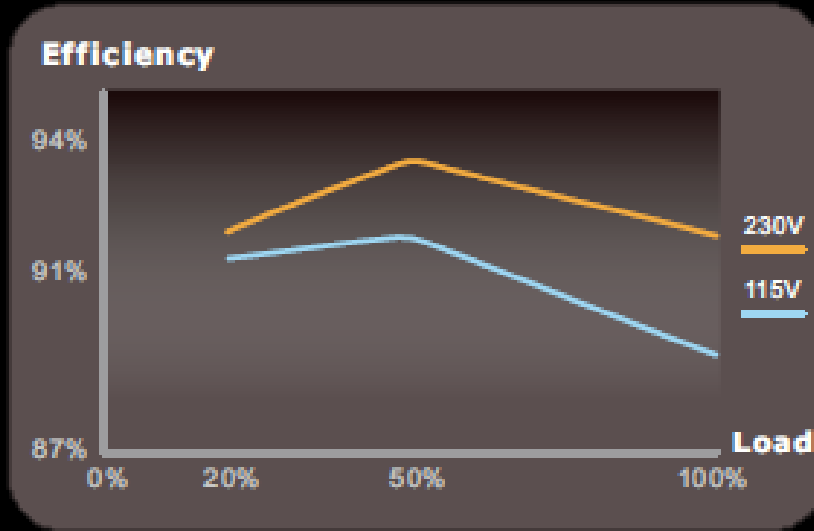


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TOUGHPower SERIES POWER SUPPLY

TOUGHPower GF3 1350W

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.



Output Specification

P/N: PS-TPD-1350FNFAgX-4

AC Input	Input Voltage: 100 - 240V~ Input Current: 16 - 8A Frequency: 50-60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	24A	24A	112.5A	0.5A	3.0A
Max Output Power	120W		1350W	6.0W	15.0W
Total Power	1350W				

Connect Specification

Connector							
Wattage	Main Power Connector (24Pin)	ATX 12V (8/4+4Pin)	PCIe (6+2Pin)	PCIe (12+4Pin)	SATA (5Pin)	Peripheral (4Pin)	FDD Adapter
1350W	1	2	6	1	12	4	1

Wattage	Connector Type	Connector Quantity & Cable Length
1350W	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)
	PCI-E (6+2pin)	2 x PCIe 6+2pin connectors (500mm + 150mm) 2 x PCIe 6+2pin connectors (500mm + 150mm) 2 x PCIe 6+2pin connectors (500mm + 150mm)
	PCI-E (12+4pin)	1 x PCI-E 12+4pin connectors (500mm)
	SATA	3 x SATA connectors (500mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm) 3 x SATA connectors (500mm + 150mm + 150mm)
	Peripheral	4 x Peripheral connectors (500mm + 150mm + 150mm + 150mm)
	Floppy Adapter	1 x Peripheral to Floppy adapter cable (150mm)



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TOUGHPower SERIES
POWER SUPPLY**TOUGHPower GF3 1350W**

GENERAL INFO	
P/N	PS-TPD-1350FNFAgX-4
Model	TPD-1350AH3FSG
Max. Output Capacity	1350W
Color	Black
Dimension (W/H/D)	150mm(W) x 86mm(H) x 160mm(D)
Weigh (Main Body)	1.83 KG
PFC	Active PFC
Power Good Signal	100-250 msec
Hold-Up Time	> 17msec at 100% of full load
AC INPUT	
Input Current	16 - 8A
Input Frequency Range	50-60Hz
Input Voltage	100 - 240V~
ENVIRONMENTAL	
Operating Temperature	0°C to + 50°C
Operating Humidity	20% to 90%,non-condensing
Storage Temperature	-40°C to + 70°C
Storage Humidity	20% to 95%, non-condensing
Cooling System	14cm hydraulic 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/S-Mark/BIS/KCC
PCIe CONNECTOR	
PCIe 6+2pin	6
PCIe 12+4pin	1



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TOUGHPower SERIES POWER SUPPLY

TOUGHPower GF3 1350W

Total Protection

P/N: PS-TPD-1350FNFAgX-4

Protections	Voltage Source		
	+3.3V	+5V	+12V
Over Voltage Protection	4.3V	7.0V	15.6V
Under Voltage Protection	2.0~2.4V	3.3~3.7V	10.3~11.0V
Over Current Protection	28.8~36A	28.8~36A	146.25~191.25A
Over Power Protection	Protection at 130%~170% over peak load.		
Over Temperature Protection	Protection temperature is 55°C ~65°C		
Short Circuit Protection	Short circuit placed on +5V,+12V,+3.3V,-12V will latch off. +5VSB will auto-recovery.		