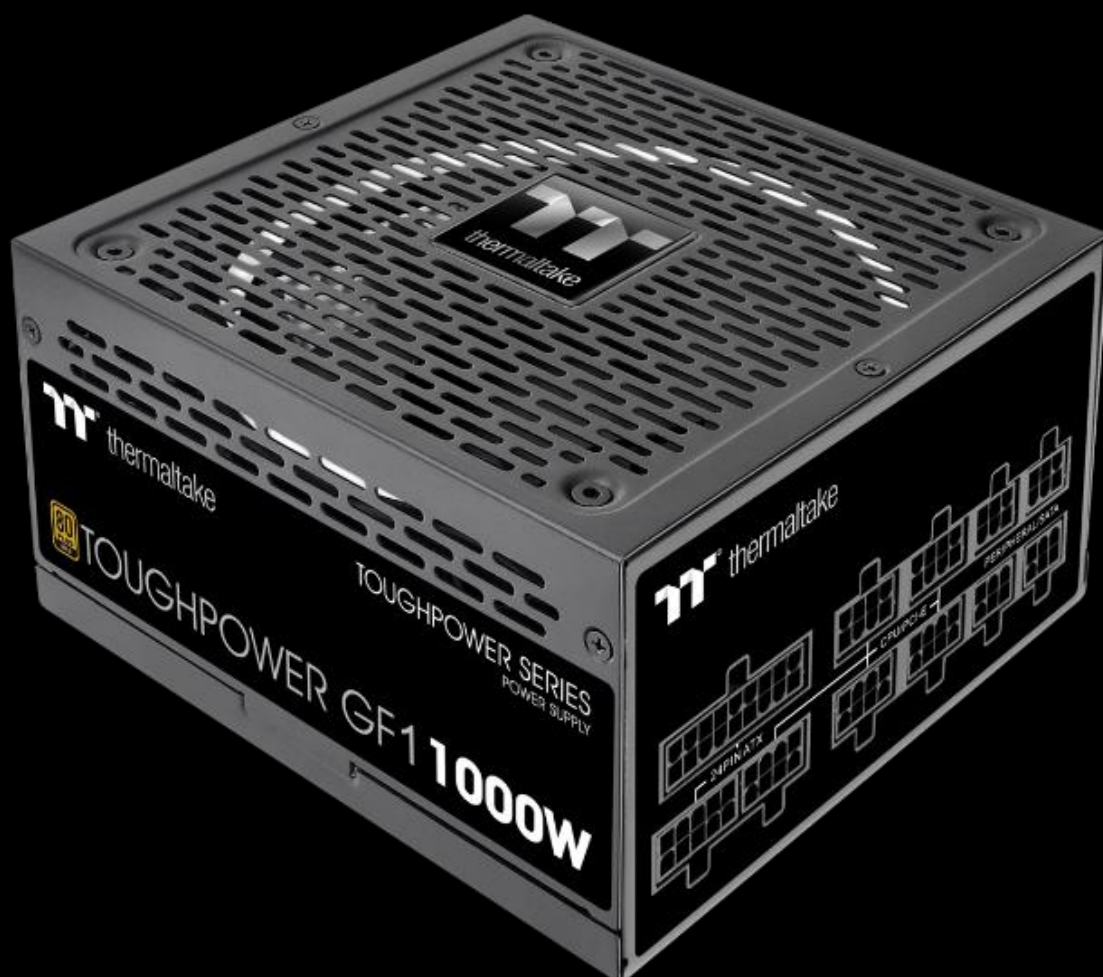




thermaltake

TOUGHPOWER SERIES
POWER SUPPLY

TOUGHPOWER GF1 1000W



TOUGHPOWER GF1 1000W

DATASHEET



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TOUGHPower SERIES POWER SUPPLY

TOUGHPower GF1 1000W

Ultra Quiet

Hydraulic Bearing Fan

Smart Zero Fan

Low Ripple Noise

Fully Modular

Flat Cables

100% Japanese

Capacitors



10 YEAR
Warranty



Features

- 1000W continuous output at 50°C/122°F operating environment.
- High efficiency Zero Cable Platform with premium build quality.
- 100% high quality Japanese 105°C/221°F capacitors.
- < 30mV low ripple noise design.
- Extremely strict voltage regulation < $\pm 2\%$
- Fully modular low-profile flat black cables.
- Upgraded CPU/PCI-E main cables (16AWG wires) for high end enthusiasts' PCs
- Ultra Quiet 140mm Hydraulic Bearing Fan delivers excellent airflow.
- Smart Zero Fan: Minimizes undesired noise.
- High amperage single +12V rail design.
- Intel C6/C7 states & ErP ready
- Built-in industry grade protections: OCP, OVP, OPP, SCP, OTP
- Dimension: 150mm(W)x86mm(H)x160mm(D).
- Safety approvals: CE/cTUVus/TÜV/FCC/BSMI/EAC/C-TICK/S-mark certifications.



Output Specification

AC Input	Input Voltage: 100V - 240V~ Input Current: 15A max Frequency: 50Hz - 60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	24A	24A	83.3A	0.5A	3A
Max Output Power	120W		1000W	6W	15W
Total Power	1000W				

Connect Specification

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

Wattage	Connector Type	Connector Quantity & Cable Length
1000W	Main Power (24pin)	1 x 24pin Main connector (600mm)
	ATX 12V (4+4pin/8 pin)	1 x ATX 12V 4+4pin connector (700mm) 1 x EPS 12V 8 pin connector (700mm)
	PCI-E (6+2pin)	2 x PCI-E 6+2pin connectors (500mm + 150mm) 2 x PCI-E 6+2pin connectors (500mm + 150mm) 2 x PCI-E 6+2pin connectors (500mm + 150mm)
	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 (150mm)



thermalright

TOUGHPower SERIES

Power Supply

TOUGHPower GF1 1000W

General Info	
P/N	PS-TPD-1000FNFAGx-1
Model	TTP-1000AH3FCG
Max. Output Capacity	1000W
Peak Output Capacity	1200W
Color	Black
Dimension (W/H/D)	150mm(W) x 86mm(H) x 160mm(D)
PSU Weight	1.8kg
PFC	Active PFC
Power Good Signal	100-500 msec
Hold-Up Time	> 16msec at 100% of full load
AC Input	
Input Current	15A max
Input Frequency Range	50Hz /60Hz
Input Voltage	100V – 240V~
Environmental	
Operating Temperature	0°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 hydraulic bearing fan
Miscellaneous	
Efficiency	Meet 80 PLUS®Gold at 115Vac input.
MTBF	100,000 hrs minimum
Safety Approval	CE/cTUVus/TÜV/FCC/BSMI/EAC
PCI-E Connector	
PCI-E 6+2pin	6



Total Protection

Voltage Source	Over Voltage Protection	Over Current Protection
	Protection Point	
+3.3V	4.5Vmax	180% max.
+5V	7Vmax	180% max.
+12V	15.6Vmax	150% max.
Over Power Protection	Protection at 120%~150% over peak load.	
Over Temperature Protection	Protection temperature is 70°C at 115V and full load.	
Short Circuit Protection	Activated when any DC rails short circuited.	