



TOUGHPower SERIES POWER SUPPLY

thermaltake

TOUGHPower GF3 1650W



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.
- 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)x180mm(D).
- Safety approvals: CE/UKCA/cTUVus/TÜV/FCC/IC/BSMI/EAC/CB/KC/BIS certifications.



Output Specification

P/N: PS-TPD-1650FNFAGx-4

AC Input	Input Voltage: 100 - 240V~ Input Current: 20 – 16A Frequency: 50-60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	25A	25A	137.5A	0.3A	3.0A
Max Output Power	130W		1650W	3.6W	15W
Total Power	1650W				

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
1650W	1	2	9	2	16	8	1

Wattage	Connector Type	Connector Quantity & Cable Length
1650W	Main Power (24pin)	1 x 24pin Main connector (600mm)
	ATX 12V (8/4+4pin)	1 x ATX 12V 8pin connector (750mm) 1 x ATX 12V 4+4pin connectors (750mm)
	PCIe (6+2pin)	2 x PCIe 6+2pin connectors (600mm + 150mm)
		2 x PCIe 6+2pin connectors (600mm + 150mm)
		2 x PCIe 6+2pin connectors (600mm + 150mm)
		1 x PCIe 6+2pin connectors (600mm)
		1 x PCIe 6+2pin connectors (600mm)
	PCIe (12+4pin)	1 x PCIe 12+4pin connectors (600mm)
1 x PCIe 12+4pin connectors (600mm)		
SATA	4 x SATA connectors (600mm + 150mm + 150mm + 150mm)	
	4 x SATA connectors (600mm + 150mm + 150mm + 150mm)	
	4 x SATA connectors (600mm + 150mm + 150mm + 150mm)	
	4 x SATA connectors (600mm + 150mm + 150mm + 150mm)	
Peripheral	4 x Peripheral connectors (600mm + 150mm + 150mm + 150mm)	
	4 x Peripheral connectors (600mm + 150mm + 150mm + 150mm)	
Floppy Adapter	1 x Peripheral to Floppy adapter cable (150mm)	



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GENERAL INFO	
P/N	PS-TPD-1650FNFAGx-4
Model	TPD-1650AH3FSG
Max. Output Capacity	1650W
Color	Black
Dimension (W/H/D)	150mm(W) x 86mm(H) x 180mm(D)
Weigh (Main Body)	2.14 KG
PFC	Active PFC
Power Good Signal	100-250 msec
AC INPUT	
Input Current	20 – 16A
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/BIS/KCC
PCIe CONNECTOR	
PCIe 6+2pin	9
PCIe 12+4pin	2