

Thermaltake ToughPower GF1 650W

TT Premium Edition - power supply (internal) - ATX12V - 80 PLUS Gold - 650 Watt - active PFC - black

Group	Power Supply
Manufacturer	Thermaltake
Manufacturer item no.	PS-TPD-0650FNFACE-1
EAN/UPC	4711246875531



Description

The fully modular ToughPower GF1 series delivers incredible efficiency. The series features an hydraulic bearing fan, reliable capacitors and other premium components to help deliver a continuous and stable power, while near silent operation and reliable performance are guaranteed.

Main features

Product Description	Thermaltake ToughPower GF1 650W - TT Premium Edition - power supply - 650 Watt
Device Type	Power supply - active Power Factor Correction (PFC) - internal
Specification Compliance	ATX12V
80 PLUS Certification	80 PLUS Gold
Output Voltage	+3.3, +5, ±12 V
Power Capacity	650 Watt
Output connectors	1 x 4 PIN mini-power connector 1 x power 24 pin ATX with detachable 4 pin section 2 x power 8 pin +12V with detachable 4 pin section 9 x 15 pin Serial ATA power 4 x 8 pin PCI Express power with detachable 2 pin section 4 x 4 PIN internal power
Modular Cable Management	Yes
Cooling System	140 mm fan
Colour	Black
Dimensions (WxDxH)	15 cm x 16 cm x 8.6 cm

Extended details

General	
Device Type	Power supply - active Power Factor Correction (PFC) - internal
Specification Compliance	ATX12V
PSU Form Factor	ATX
Colour	Black
Power Device	
Input Voltage Range	AC 100 - 240 V

Frequency Required	50 - 60 Hz
Power Output Connectors Details	1 x 4 PIN mini-power connector 1 x power 24 pin ATX with detachable 4 pin section 2 x power 8 pin +12V with detachable 4 pin section 9 x 15 pin Serial ATA power 4 x 8 pin PCI Express power with detachable 2 pin section 4 x 4 PIN internal power
Output Voltage	+3.3, +5, ±12 V
Power Capacity	650 Watt
Output Current	+3.3V - 22 A +5V - 22 A +12V - 54.2 A -12V - 0.3 A +5VSB - 3 A
Efficiency	90%
Modular Cable Management	Yes
80 PLUS Certification	80 PLUS Gold
	Miscellaneous
MTBF	120,000 hours
Cooling System	140 mm fan
Features	Overheat protection, over current protection, over voltage protection, overpower protection, short-circuit protection, single 12V rail, DC-DC technology, hydraulic bearing cooling fan, fully modular, anti-vibration fan mounting, undervoltage correction
Compliant Standards	BSMI, FCC, cTUVus, CEC, TUV SUD, EAC
	Manufacturer Warranty
Service & Support	Limited warranty - 10 years
	Environmental Parameters
Min Operating Temperature	0 °C
Max Operating Temperature	50 °C
Humidity Range Operating	5 - 95% (non-condensing)
	Dimensions & Weight
Width	15 cm
Depth	16 cm
Height	8.6 cm

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