

DarkFlash PMT1050 computer power supply (black)



Model: PMT1050 Black

Manufacturer: DARKFLASH

EAN: 4711527005206

Product Code: 807417

R3,257

DarkFlash PMT1050 computer power supply (black)

The DarkFlash PMT1050 power supply is a modern 1050 W unit designed in accordance with the ATX 3.1 and PCIe 5.1 standards, intended for high-performance gaming computers and professional workstations. The single +12 V line design provides stable power to the most demanding components, and power consumption of less than 0.5 W in standby mode ensures greater energy efficiency. In addition, the 80 PLUS Gold certification confirms high energy efficiency of up to 93%, and the compact dimensions of 140 × 150 × 86 mm ensure compatibility with most computer cases.

ATX 3.1 and full PCIe 5.1 readiness

The power supply has been fully adapted to the ATX 3.1 specification, offering support for a new generation of components. The integrated 12V-2x6 cable with a power output of up to 600 W allows

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direct power supply to modern PCIe 5.1 graphics cards. This design allows for up to twice the rated power to be used momentarily, ensuring stable system operation under heavy load. All this makes the PMT1050 model perfect for gaming computers and more!

High efficiency and 80 PLUS Gold certification

80 PLUS Gold certification confirms the high energy efficiency of the power supply across a wide load range. Efficiency of up to 93% reduces energy losses, reduces component heating, and supports stable, long-term system operation. These parameters make the power supply a suitable solution for computers that work intensively for many hours.

Single +12 V rail and DC-to-DC conversion

The use of a single high-efficiency +12 V rail allows almost all of the power supply's power to be delivered to the most important components of the system. The DC-to-DC conversion circuit converts +5 V and +3.3 V voltages directly from the +12 V line, ensuring high stability and minimal fluctuations even with dynamic load changes. This solution increases the reliability of the processor and graphics card.

Active PFC and power stability

The power supply uses an active PFC power factor correction circuit with up to 99% efficiency. This solution improves energy efficiency, reduces power loss, and reduces electromagnetic interference. As a result, electricity is used more efficiently and the power supply provides stable and clean power to all components.

High-quality components and Japanese capacitors

The power supply design uses Japanese electrolytic capacitors rated for operation at temperatures up to 105°C. The system is based on pulse transformers responsible for transferring power from the input to the output, and there are also EMI filters inside to reduce electrical interference from the mains. In addition, heat sinks are used to minimize heat generation inside the power supply. Quiet and intelligent cooling The device is cooled by a 120 mm fan with a hydro bearing, which combines durability with quiet operation. An intelligent temperature control system automatically adjusts the

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speed to the current load on the power supply. All this translates into comfortable computer operation. What's more, the PMT1050's housing has been designed for efficient airflow. The top panel uses a regular square ventilation pattern, while the rear panel is based on a honeycomb structure. This solution enables rapid heat dissipation and allows for stable operation even under high load.

Advanced system protection

DarkFlash PMT1050 offers an extensive set of seven protections that protect both the power supply and computer components. The mechanisms used include protection against overvoltage, overcurrent, overload, short circuit, overheating, undervoltage, and no-load operation. In addition, the design includes a Surge 4K surge protection system, which provides greater peace of mind during storms – protecting your equipment from lightning strikes, among other things.

Modular cabling and compatibility

The power supply features a fully modular design with flat cables, allowing you to connect only the necessary cables and making it easier to organize the interior of the case. It is also compatible with the latest Intel and AMD processors, as well as NVIDIA and AMD Radeon graphics cards. It also works well in configurations with multiple GPUs. What's more, its small dimensions of 140 × 150 × 86 mm allow for easy installation in most computer cases.

Included

DarkFlash PMT1050 power supply

20+4-pin motherboard power cable (600 mm) ×1

- 4+4-pin CPU power cable (700 mm) ×2
- 6+2-pin PCI-E cable (600 mm) ×2
- 6+2-pin → 6+2-pin PCI-E cable (600 + 150 mm) ×1
- SATA + SATA + SATA + P (450 + 150 + 150 + 150 mm) ×2
- SATA + SATA + P + P cable (450 + 150 + 150 + 150 mm) ×1
- PCI-E 5.1 (12V-2×6) 16-pin 600 W cable (650 mm) ×1

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- Mounting screws
- Cable ties
- Bag
- Protective gloves
- User manual
- Manufacturer
- Darkflash

Model	PMT1050
Color	Black
Total power	1050 W
Power consumption in standby mode	Less than 0.5 W
Power supply dimensions	140 × 150 × 86 mm
Efficiency certificate	80 PLUS Gold
Fan bearing type	Hydro bearing
Input voltage	100-240 V
Input frequency	50-60 Hz
Capacitors	Japanese 105°C
Topology	Active PFC, Half Bridge LLC, SRC, DC to DC
Cooling	120 mm Hydro Bearing fan
Protections	Over voltage protection (OVP), over current protection (OCP), overload protection (OPP), short circuit (SCP), overheating (OTP), under voltage (UVP), no load protection (NLP)
Power Good signal	100-250 ms
Hold-up time	≥16 ms at 100% load
Compatible processors	Intel, AMD

**Black DarkFlash power supply with
ventilation grille against a geometric
pattern and yellow stripes**

Side of the DarkFlash power supply with visible modular
sockets and inscription on a dark background

GPSR Link: https://psr-assets.innpro.pl/gaming/sg_gaming_pc_power_supplies.pdf, Gross weight:
2830, Net weight: 2000, Box length: 28,00, Box width: 21,00, Box height: 11,50