

Newton R3 Series



Fractal Design Newton R3 Series power supply units (PSUs) provide clean power efficiently and silently. The Newton R3 is the ultimate choice for demanding high-end gaming computers and ultra-quiet media PCs.

The visual appearance of Newton R3 Series PSUs is proof of Fractal Design's commitment to providing innovative computer components infused with stylish, elegant, contemporary Scandinavian design.

Key features

- 80PLUS® Platinum
- Single, powerful 12V rail
- SLI (800W and up) and CrossFireX Certified
- Long-life ball-bearing fan
- Modular cables
- Japanese capacitors
- Semi-passive fan

80 PLUS® Platinum certified efficiency

Newton R3 Series PSUs meet the highest efficiency specifications currently available for consumer-grade power supplies. This efficiency produces both positive environmental impact, as well as reduces electricity bills. Additionally, because the Newton R3 Series PSUs generate less heat, they provide power at lower fan speeds, which results in reduced noise levels.

Excellent electrical performance

Newton R3 Series PSUs feature excellent DC voltage regulation and ripple suppression; they can deliver their full-rated wattage continuously even with an intake temperature as high as 50°C.

SLI and CrossFireX support

Newton R3 Series PSUs are tested and certified compatible with the latest graphics cards.

Modular Cables

With the exception of a few, all cables on the Newton series power supplies can be detached from the PSU

unit. This reduces the clutter, assists with a clean installation and improves the airflow in the computer case.

Compliant with the latest standards

Newton R3 PSUs are compliant with the latest PSU standards: ATX12V 2.31 and EPS12V2.92.

Semi-passive Fan Operation

Newton R3 Series PSUs generate very little heat, they work well without active cooling in most environmental and loading conditions, especially in a well-ventilated case. Subsequently, Newton R3 Series PSUs are equipped with temperature sensors that only start the fan when required to keep the operating temperature down.

Single powerful 12V rail

To provide maximum support for modern components, Newton R3 Series PSUs deliver their full wattage from a single 12V rail.

Extra-long ATX12V cable

Newton R3 Series PSUs are equipped with a 700mm long 12V ("P4") connector cable, which accommodates bottom-mounted-PSU computer cases.

Long-life Ball-bearing Fan

Newton R3 Series PSUs are equipped with ball-bearing fans, which provide the longest expected fan life available on the market.

Premium Japanese capacitors

Newton R3 Series PSUs are equipped with premium Japanese capacitors for maximum reliability and durability.

Specifications

| | |
|--------------------------------------------|----------------------------|
| Wattage range | 600-1000W |
| 80PLUS® Certification | Platinum |
| Modular cables | Yes |
| Fan type | 135mm ball-bearing |
| Maximum operating temperature at full load | 50°C |
| Semi-passive operation | Yes |
| Capacitors | Japanese |
| Colors Available | Black White |
| Case dimensions - W x H x D (mm) | 150 x 86 x 165 |
| Life expectancy (MTBF) | 100,000 hours at full load |
| PSU specification compliance | ATX 2.31 & EPS 2.92 |
| Package dimensions - W x H x D (mm) | 445 x 235 x 145 |
| Warranty | 5 Years |

Power Specification

AC Input

| | 600W | 800W | 1000W |
|---------------------|--------|------------|-----------|
| Voltage | | 90-264V AC | |
| Frequency | | 47-63 Hz | |
| Current (115V/230V) | 10A/5A | | 15A/ 7.5A |

DC Output

| | 600W | 800W | 1000W |
|----------------------|------|------|-------|
| 3.3V | | 20A | |
| 5V | | 20A | |
| 3.3V and 5V combined | | 100W | |
| 12V | 50A | 66A | 80A |
| -12V | | 0.5A | |
| 5V Standby (+5Vsb) | | 2.5A | |
| Total Power | 600W | 800W | 1000W |

Cable configuration

| Connector type & Cable type | Quantity | | |
|------------------------------------------|----------|------|-------|
| | 600W | 800W | 1000W |
| ATX 20+4 pins (fixed cable) | | 1 | |
| ATX12V/ EPS12V 4+4 pins (fixed cable) | | 1 | |
| ATX12V/ EPS12V 8 pins (modular cable) | 0 | | 1 |
| PCI-E 6+2 pins (fixed cable) | 2 | | 4 |

| | | |
|-----------------------------------|---|----|
| PCI-E 6+2 pins (modular cable) | 2 | |
| SATA (modular cable) | 9 | 12 |
| Peripheral (modular cable) | 4 | |
| Floppy (modular cable) | 1 | |

Package contents

- Newton R3 PSU in protective bag
- Modular cables in a cable rollout
- User's Manual
- AC Power cord (localized)
- Velcro cable ties & zip ties
- Mounting Screw pack

Additional information

600W

- EAN/GTIN-13: 7350041080862
- UPC: 817301010863
- Product code: FD-PSU-NT3B-600W
- Masterbox quantity: 4pcs

800W

- EAN/GTIN-13: 7350041080879
- UPC: 817301010870
- Product code: FD-PSU-NT3B-800W
- Masterbox quantity: 4pcs

1000W

- EAN/GTIN-13: 7350041080893
- UPC: 817301010894
- Product code: FD-PSU-NT3B-1000W
- Masterbox quantity: 4pcs