

# FSP HYPER 80+ PRO 450W Power supply unit ATX ATX3.1 Black

 Gamintojas: **FSP** · Modelis: **9PA450A404** · EAN: **4711498480552** · Prekės kodas: **613449**


## 48,90 €

Kaina su PVM

 Be PVM: **40,41 €**

Sandėlyje


**Prekė internetu**

 Nuskenaukite kodą arba apsilankykite [www.shopro.lt](http://www.shopro.lt)

## Pagrindinės savybės

- ✓ Complies with ATX12V V2.52 & EPS12 v2.92
- ✓ Efficiency  $\geq 85\%$  @ typical load
- ✓ Active PFC  $\geq 0.9$
- ✓ Hold up time  $> 17\text{ms}$  @80% load
- ✓ 450V, 105°C capacitors for a long product life cycle
- ✓ +12V single-rail design
- ✓ +5V & 3.3V DC to DC module design
- ✓ 120mm silent and long life fan
- ✓ All black round cables
- ✓ Complete protection: OCP/OVP/OPP/SCP



## Aprašymas

### 80 Plus® 230V EU White Certification

HYPER 80+ PRO series, 80 PLUS® 230V EU White certified, saves energy through its high efficiency up to 82% and exceeds the standard through its high efficiency up to 85%.

### DC-to-DC Module Design

With a 12V SR circuit and the DC to DC structure, HYPER 80+ PRO series ensure you outstanding conversion efficiency and provides stable output voltage.

### 450V 105C, Heavy-duty capacitor

The bulk capacitor inside serves to support working under an extremely harsh environment, such as with high temperatures, peak voltage

fluctuations. It stabilizes the performance for high reliability that your system can count on.

#### Energy Related ErP/Eup 2013

Green Power! The total AC power consumption of the completed system is less than 5Vsb rail to support the new EU Regulation ErP 2013 for modern day systems.

#### Keep in Compliance IEC 62368

FSP Group provides a full kinds of additional safety approvals to keep designs ahead of the changing regulations. FSP has upgraded the majority of power supplies to the new IEC 62368 standard for your gaming rigs.

#### Intelligent Fan Speed Control

An advanced thermal control fan makes optimal cooling and reduces noise under maximum operation.

120mm fan and heat dissipation design to spin quietly and keep cooling under maximum operation.

#### All Black Round Cables

The all black coating round cables give your system a superior look rather so many entry-level power supplies.

### Techninė specifikacija

| Specifications                     |                       |
|------------------------------------|-----------------------|
| Sandėlio grupė                     | Netzteile [+614][-32] |
| Power                              |                       |
| Total power                        | 450 W                 |
| AC input voltage                   | 200 - 240 V           |
| AC input frequency                 | 50/60 Hz              |
| Input current                      | 3 A                   |
| Power factor                       | 0.9                   |
| Power Factor Correction (PFC) type | Active                |
| Combined power (+3.3V)             | 85 W                  |
| Combined power (+12V)              | 450 W                 |
| Combined power (+5V)               | 85 W                  |
| Combined power (-12V)              | 3.6 W                 |
| Combined power (+5Vsb)             | 12.5 W                |
| Max output current (+3.3V)         | 16 A                  |
| Max output current (+12V)          | 37.5 A                |
| Max output current (+5V)           | 16 A                  |
| Max output current (-12V)          | 0.3 A                 |
| Max output current (+5Vsb)         | 2.5 A                 |
| Hold time                          | 17 ms                 |
| Efficiency                         | 88%                   |

|                                             |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| Power protection features                   | Over current, Over power, Over voltage, Short circuit |
| <b>Ports &amp; interfaces</b>               |                                                       |
| Motherboard power connector                 | 24-pin ATX                                            |
| Peripheral (Molex) power connectors (4-pin) | 2                                                     |
| Number of SATA power connectors             | 5                                                     |
| EPS power connector (8-pin)                 | Yes                                                   |
| PCI Express power connectors (6+2 pin)      | 2                                                     |
| CPU power connector (4+4 pin)               | Yes                                                   |
| ATX Power connector (24-pin)                | Yes                                                   |
| Floppy drive power connector                | 1                                                     |
| Floppy disk drive connector                 | Yes                                                   |
| PCI Express connector                       | Yes                                                   |
| Cabling type                                | Non-Modular                                           |
| <b>Performance</b>                          |                                                       |
| Purpose                                     | PC/Server                                             |
| Power supply unit (PSU) form factor         | ATX                                                   |
| 80 PLUS certification                       | 80 PLUS Bronze                                        |
| ATX version                                 | 3.1                                                   |
| Bearing technology                          | Sleeve                                                |
| <b>Design</b>                               |                                                       |
| Product colour                              | Black                                                 |
| Cooling type                                | Active                                                |
| Fan diameter                                | 12 cm                                                 |
| Number of fans                              | 1 fan(s)                                              |
| On/off switch                               | Yes                                                   |
| <b>Certificates</b>                         |                                                       |
| Compliance certificates                     | EuP                                                   |
| <b>Weight &amp; dimensions</b>              |                                                       |
| Width                                       | 140 mm                                                |
| Depth                                       | 150 mm                                                |
| Height                                      | 86 mm                                                 |
| Weight                                      | 1.24 kg                                               |
| <b>Technical details</b>                    |                                                       |
| Sustainability certificates                 | ErP                                                   |

Matmenys ir svoris

|        |        |
|--------|--------|
| Svoris | 1,40kg |
|--------|--------|