

Exceptionally reliable and efficient Nipron switching power supplies are now available as long-awaited DIN-rail compatible models.

UDP-240/120 series

The thin module design enables miniaturization of control panels to save space

Low heat generation!

Max. efficiency of **94% typ!**
(With 230 VAC)

UDP-240-24

To be released this autumn

Continuous: 240W
Peak: 400W
Output voltage: 24V



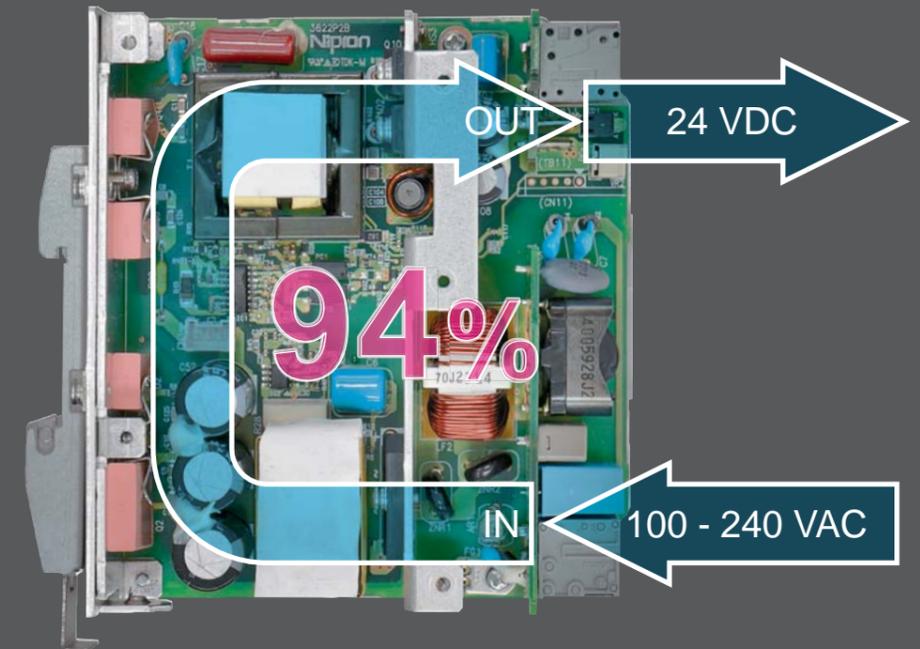
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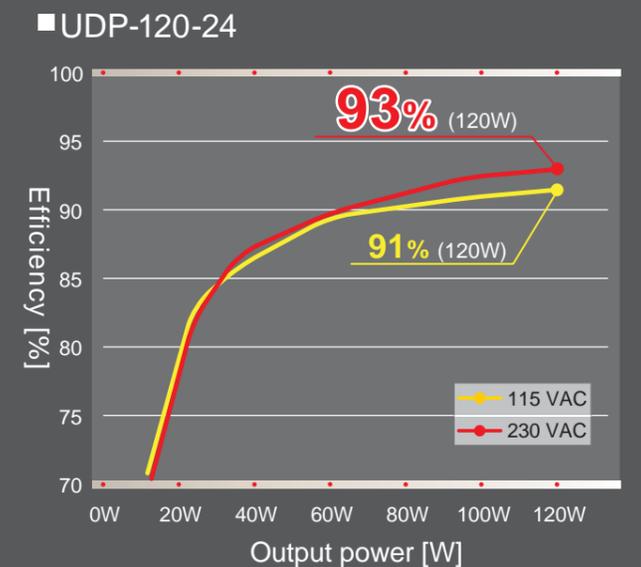
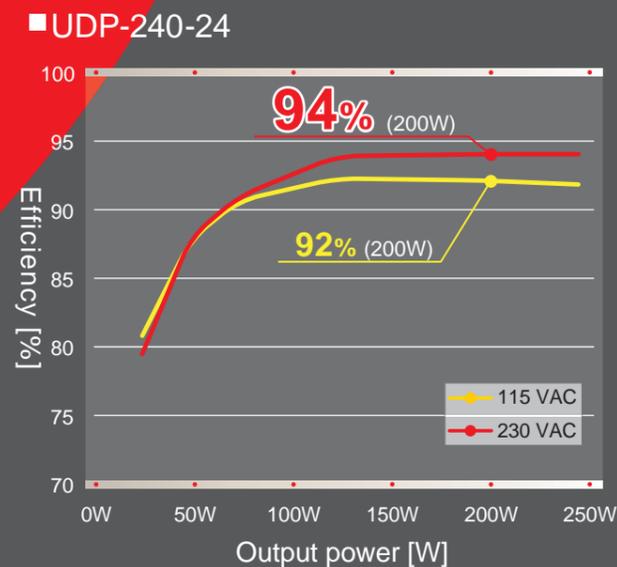
Continuous: 120W
Peak: 200W
Output voltage: 24V



Software switching is adopted in the UDP series.

Compared to conventional hardware switching, it suppresses heat generation due to the switching loss significantly, enabling miniaturization of built-in components. This makes it possible to produce smaller and more efficient power supply units.

Efficiency graph



Count on Nipron for DIN-rail power supplies.

<http://www.nipron.com>

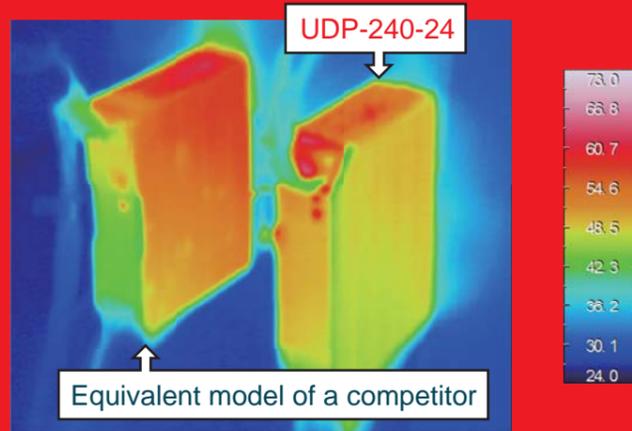
Thin, low-heat-generation design results in a space-saving Control Panel

<http://www.nipron.com>

Features

POINT 01 Limits temperature rise in the control panel and supports miniaturization and extension of service life

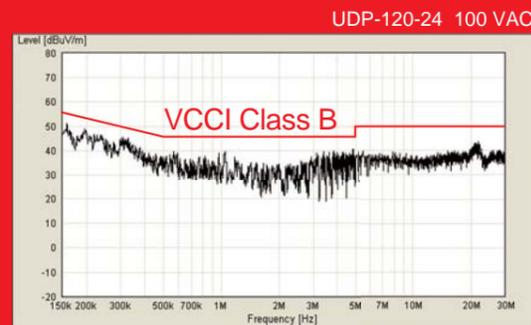
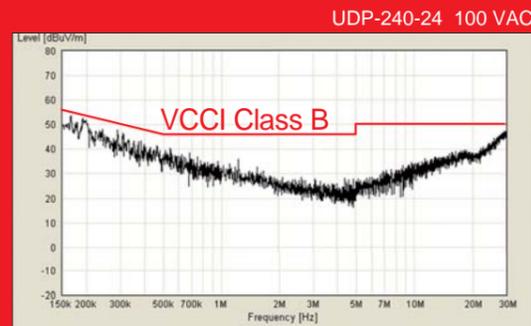
The UDP series boasts a high efficiency with the maximum efficiency of 94% (UDP-240-24 with 230 VAC). Because the heat generation due to switching loss has been reduced drastically by attaining the high efficiency, the series makes it possible to reduce the man-hour and cost in addressing the heat in control panels.



POINT 02 Reduction of noise filters possible

The power supply unit clears VCCI Class B for the conducted emission. Because there is no need to install an external noise filter, it facilitates reductions in the cost and man-hour.

Conducted emission characteristics



POINT 03 Adoption of push-in terminals to reduce the burden of wiring and man-hour

The series adopts the push-in connection. Torque control is not required for these spring type terminals and, unlike screw type connections, there is no concern of wires becoming loose. With these terminals, it is possible to maintain the reliability while improving the workability.



* I/O terminals in the form of terminal block are also available.

POINT 04 Other features

▶ Supports approx. 1.7 times higher peak load

The product supports 10 second output of peak power, which makes it optimum for devices involving an inrush current, such as motors.



- ▶ EN62477-1 OVCIII compliant design
- ▶ The built-in arrestor enhances the resistance against lightning surges
- ▶ Notification of service life expiration supported (optional)
- ▶ Blackout backup is supported (optional)

Output specifications

| | UDP-240-24 | UDP-120-24 |
|--------------------------|---|------------|
| Output voltage | +24 V | +24 V |
| Continuous power | 240 W | 120 W |
| Peak power (within 10 s) | 400 W | 200 W |
| Efficiency | 115 VAC | 92% typ |
| | 230 VAC | 94% typ |
| Power factor | 115 VAC | 99% typ |
| | 230 VAC | 90% typ |
| Input voltage | 85 - 264 VAC (with PFC, global input) | |
| Size (W×H×D) mm | 41×124×112 | 35×124×112 |
| Safety standards | Will obtain the UL(cUL)62368-1, EN62368-1 and UL508 certifications EN62477-1 OVCIII compliant design | |

Outline drawing (UDP-240-24)

