

# New product UDP series

DIN-rail compatible,  
unit type power supply



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

### UDP-240-A24 New

Continuous: **240W** Output voltage: **24V**  
Peak: **400.8W** Max. efficiency: **94%typ\***

### UDP-180-A24 Under development

Continuous: **180W** Output voltage: **24V**  
Peak: **201.6W** (100VAC) Max. efficiency: **93%typ\***  
**300W** (200VAC)

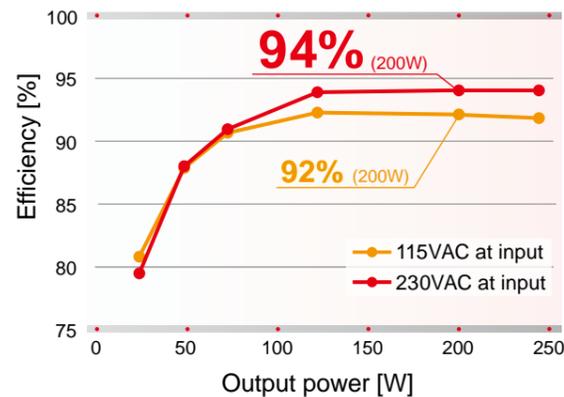
### UDP-120-A24 Under development

Continuous: **120W** Output voltage: **24V**  
Peak: **201.6W** (100VAC) Max. efficiency: **92%typ\***  
**300W** (200VAC) \*An example with 230VAC input

### High efficiency, long life design

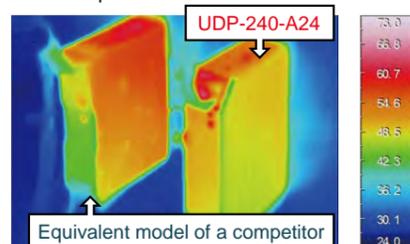
Software switching is adopted in the UDP series. Compared to conventional hardware switching, it suppresses heat generation due to the switching loss significantly, enabling miniaturization of built-in components. This makes it possible to produce smaller and more efficient power supply units.

#### Max. efficiency of 94% (an example of measurement, UDP-240-A24)



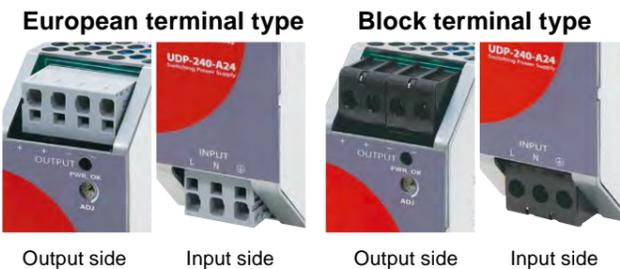
#### Limits temperature rise and supports miniaturization and extension of service life

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.



### Selectable input/output connector type

The PSU comes with European terminal type or Block terminal type as I/O terminals.



### The build-in arrester enhances the resistance against lightning surges

By incorporating an arrester as a surge protector, the resistance to external surges due to lightning or other causes has been enhanced.

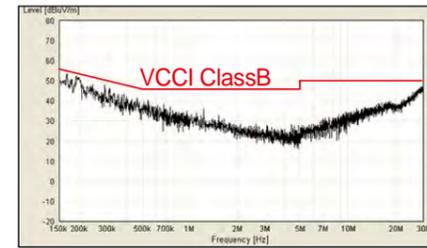


Common mode:  
actual performance ± 8kV

### Reduction of noise filters possible

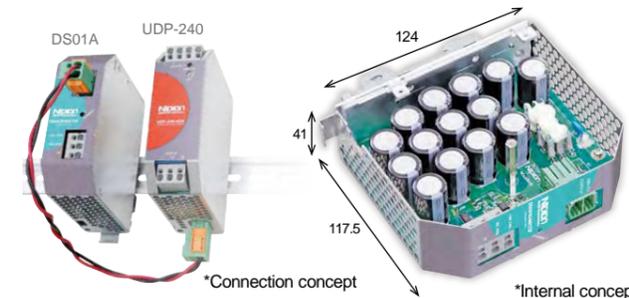
The power supply unit clears VCCI ClassB for the conducted emission. Because there is no need to install an external noise filter, it facilitates reductions in the cost and man-hour.

#### Conducted emission characteristics (UDP-240-A24, 100VAC)



### Instantaneous power failure and blackout backup units are now available.\*

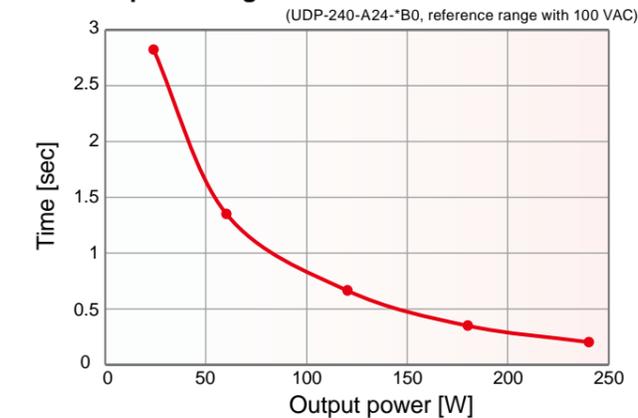
\*Please check the features list below for the supported power supply.



### DS01A-EC400/172F

Instantaneous power failures can be addressed by connecting a capacitor unit.

#### Backup discharge characteristics



■ Since DS01A, DS02A are under development, the specifications and appearance shown here may change without notice.

### Product outline

#### Output specifications

Model	UDP-240-A24	UDP-180-A24	UDP-120-A24
Output voltage	+24V	+24V	+24V
Continuous power	240W	180W	120W
Peak power (10s) 100/200VAC	400.8W	201.6W/300W	201.6W/300W
Efficiency	115VAC	92%typ	91.5%typ
	230VAC	94%typ	93%typ
Power factor	115VAC	99%typ	99%typ
	230VAC	91%typ	89%typ
Input voltage	85-264VAC (with PFC, worldwide range)		
Safety standards	UL(cUL)62368-1, UL508, CE marking approved PSE (ordinance item 2) compliant		

\*UDP-180 and UDP-120 are compliant.

### Features

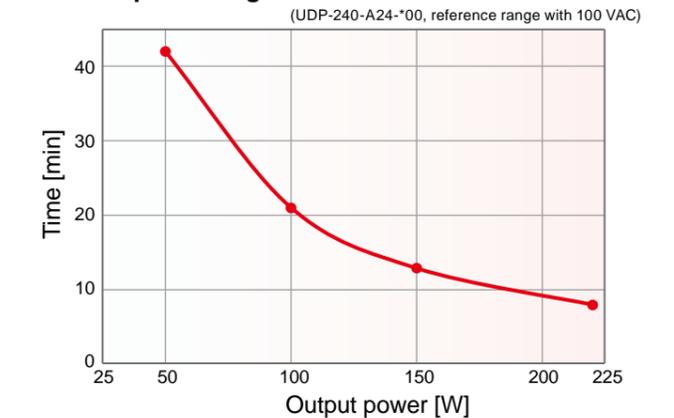
- Wide operating temperature range from -20°C to 70°C (derating required)  
Even if the temperature inside the control panel is high, mechanism design with high degrees of freedom is possible.
- Available to start-up at -40°C environment
- The PCB is coated as standard specification
- Equipped with a variable resistor for adjusting output voltage
- Notification of service life expiration supported (optional)  
Notify the deterioration of electrolytic capacitor by H/L signal and LED.
- Possible to support SEMI F47
- EN62477-1 OVC III compliant design



### DS02A-L24/2.5L

Blackout backup without instantaneous interruption can be achieved by connecting a battery unit.

#### Backup discharge characteristics



Thin, low-heat-generation design results in a space-saving control panel <http://www.nipron.com>

Rely on Nipron for solutions to blackouts and instantaneous power failures. <http://www.nipron.com>

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