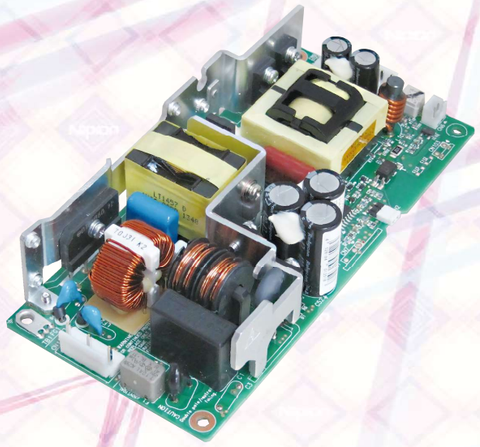
Compact, High power, Ultrahigh efficiency

PCB Type AC-DC Switching Mode Ultra-Power Supply

UZP Series Special Feature



High efficiency/Advanced type

mUZP-220 Series

UZP-220 Series

Continuous max.: **180/220W** Peak: **400W**

Output voltage: **12/18/24/36/48V**

Efficiency (At 24V output voltage)

At 100 VAC : **91.5%**

At 230 VAC : **94.0%**

*An example of actual measurement

Economy type

mUZP-150 Series

UZP-150 Series

Continuous max.: **150W** Peak: **400W**

Output voltage: **12/18/24/36/48V**

Efficiency (At 24V output voltage)

At 100 VAC : **88.5%**

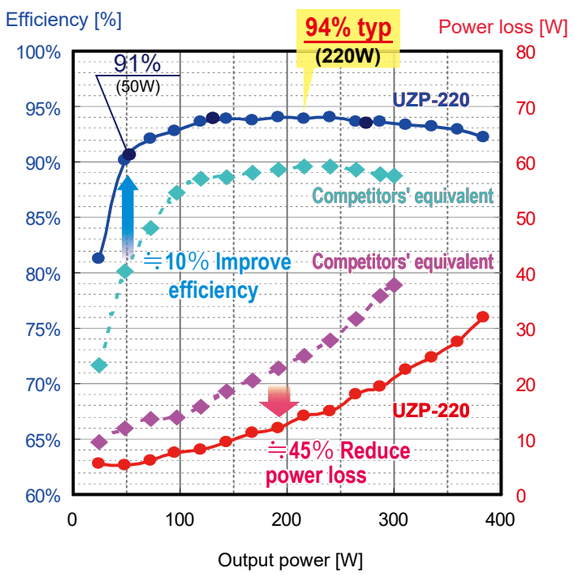
At 230 VAC : **92.0%**

*An example of actual measurement

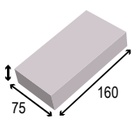
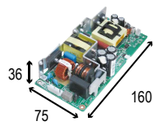
Medical standard IEC60601-1 2nd, 3rd approved models also line-up ***mUZP-150 series / mUZP-220 series***

AC-DC switching mode PSU developed successfully especially in size, high power, ultrahigh efficiency. UZP-220 series: high efficiency/advanced type, and UZP-150 series: economy type will be added to our lineup.
24V output type achieved ultrahigh efficiency at 94.0% typ.* !! It contributes to saving energy and reduce CO_2 greatly. Compared with the competitors' 150W power supplies, UZP-220 series improved efficiency approx. 5% (at 150W) to 10% (at 50W) and can output 220W in the same size. *UZP-220 series, at AC230V input"

Ultrahigh efficiency *An example of actual measurement with UZP-220-24 series



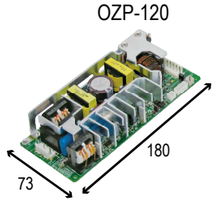
Compact, High power

	Competitors' equivalent	UZP-220 series
Dimension		
Efficiency*	100V: 85.0% typ.	100V: 91.5% typ.
	230V: 88.2% typ.	230V: 94.0% typ.
Max. power*	151.2W	220.8W
Power density*	0.34W/cm³	0.51W/cm³

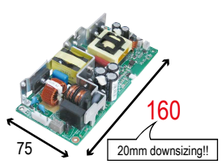
*24V output type

- **2mm lower than competitor's equivalent. Can be mounted into 1U racks.**
- **400.8W high peak power**
- **Achieved smaller size than existing OZP-120 series**

OZP-120



UZP-150/220



! Low noise and low leakage current

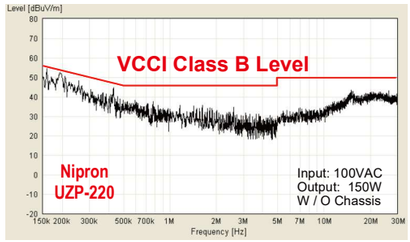
Low leakage current

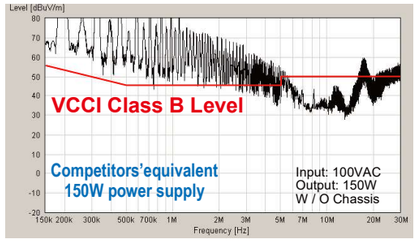
Conducted emission VCCI Class B without an external noise filter. Therefore it enables cost reduction and reduces manhour at user's side. Furthermore, the leakage current achieved to be 0.06mA typ. at 100 VAC and 0.12mA typ. at 200 VAC even achieving low noise.

Leakage current value (At rated load, an example of actual measurement.)		
Input voltage	100VAC	200VAC
At rated load	0.056mA typ.	0.115mA typ.
At min. load	0.058mA typ.	0.119mA typ.

Conducted emission

*An example of actual measurement with UZP-220 series





! Other features

Standby power consumption much lower than ErP directive Lot6

0.018W typ. at 100 VAC input 0.070W typ. at 200 VAC input

*An example of actual measurement with UZP-220 series

Standby power output (5VSB/12VSB) equipped model is also scheduled to be added to the lineup

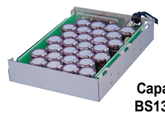
Remote ON/OFF control available without extra power supply. Also, it is complied with ErP directive Lot6 by reducing power consumption at light load.
For example, the combination of "UZP-220" + "PS-10WP-5VSB (5VSB auxiliary power supply plate)", meets ErP directive if the 5VSB output power is under approx. 0.2W (at 230 VAC input) or 0.3W (at 100 VAC input).

Instantaneous power failure measure (Optional for UZP-150 series)

Capacitor package available for instantaneous power failure measure

Backup with capacitor package protects your system from instantaneous power failure.

Capacitor PCB

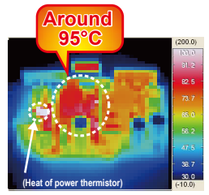


Capacitor package BS13A-EC400/422F

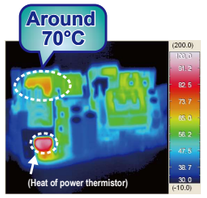
Reducing temperature rise with ultrahigh efficiency

UZP-220 achieved large capacity and long lifetime, reducing the heat generation with its ultrahigh efficiency.

■ **Temperature rise comparison** (Measurement condition: Input 100 VAC , Output 24V, 150W)



Competitors' equivalent



UZP-220-24

Output voltage adjusting knob equipped as standard

A potentiometer is included as a standard feature so that output voltage can be adjusted in ±5% range. Improves operation stability of the equipment by adjusting voltage drop.

Remote ON/OFF function equipped as standard

! Product summary

Output specification

UZP-220 series

Model name (UZP-220-)	12	18	24	36	48
Output voltage	+12V	+18V	+24V	+36V	+48V
"Max. current / max. power (Natural air cooling)"	15A	10A	9.2A	6.2A	4.6A
	180W	180W	220.8W	223.2W	220.8W
"Max. current / max. power (Forced air cooling)"	21A	14A	13.8A	9.2A	6.9A
	252W	252W	331.2W	331.2W	331.2W
"Peak current / peak power (10 sec. max.)"	33.4A	22.3A	16.7A	11.15A	8.35A
	400.8W	401.4W	400.8W	401.4W	400.8W
Input voltage	85-264VAC (PFC, worldwide range)				

UZP-150 series

Model name (UZP-150-)	12	18	24	36	48
Output voltage	+12V	+18V	+24V	+36V	+48V
"Max. current / max. power (Natural air cooling)"	12.5A	8.4A	6.3A	4.2A	3.2A
	150W	151.2W	151.2W	151.2W	153.6W
"Max. current / max. power (Forced air cooling)"	21A	14A	11.3A	7.5A	5.7A
	252W	252W	271.2W	270W	273.6W
"Peak current / peak power (10 sec. max.)"	33.4A	22.3A	16.7A	11.15A	8.35A
	400.8W	401.4W	400.8W	401.4W	400.8W
Input voltage	85-264VAC (PFC, worldwide range)				

Selectable Chassis/Cover

Input/output terminal is connector or block terminal type