

Long life, Low noise AC-DC general purpose SW' power supply

OZP series Outstanding Feature



Product lineup

Series Name	Output Voltage	Output Current			Remarks
		at natural air cooling	at forced air cooling	Peak	
OZP-120-12/15	+12V	10A	12.5A	15A	+12V/+15V output selection system
	+15V	8A	10A	12A	
OZP-120-24	+24V	5A	6.3A	9A	Blakout backup mode is available.
OZP-170-12/15	+12V	14A	17.5A	22.5A	+12V/+15V output selection system
	+15V	11.2A	14A	18A	
OZP-170-24	+24V	7A	8.8A	12.5A	Blakout backup mode is available.

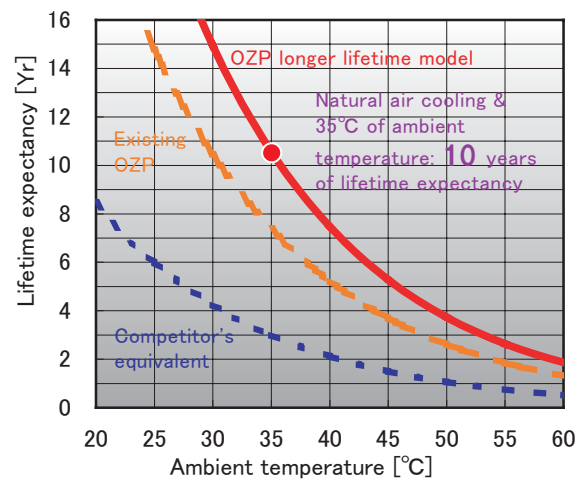
Even longer lifetime! for OZP series of longlife AC-DC single output SW' power supply OZP-170 realizes amazing **10-year lifetime** as Fanless power supply goes. Moreover, Open frame model (no chassis/cover) of OZP series is **Low Noise** power supply to satisfy VCCI Class B (Conducted emission and Radiant noise) without external noise filters.

Amazing 10-year lifetime

This summer, from July production in 2008, OZP series extends its lifetime even longer to 10-year of lifetime expectancy for OZP-170 at the conditions below. Thus, it secures longlife at severe industrial temperature environment resulting in reduction of maintenance work.

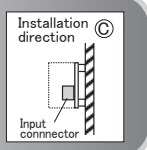
Nipron contributes to global environmental improvement with long-life design policy (10 years +) by decreasing industrial waste.

Lifetime expectancy curve



Measurement conditions

Input voltage: 100V
Output power: 150W
Chassis/Cover: Non
Installation direction: Side direction (see the drawing on the right)



In-house data

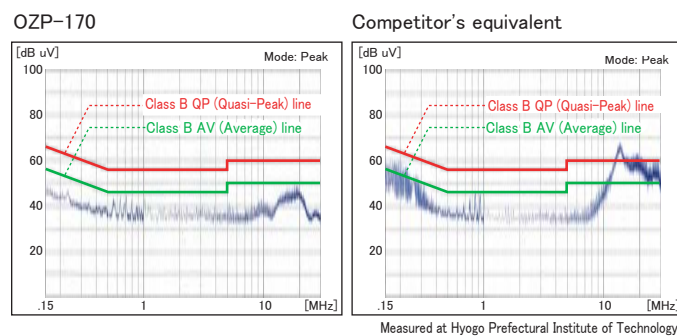
Longer lifetime for OZP-120 series as well, Also Chassis & Cover installation gives you longer lifetime; Lifetime data is on our URL and catalogs as needed.

Low Noise

Open frame model (no chassis/cover) of OZP series is LOW NOISE power supply to satisfy VCCI Class B (Conducted emission and Radiant noise) without external noise filter

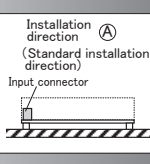
Conducted emission

Conducted emission: The noise that sw' power supply emits along AC line

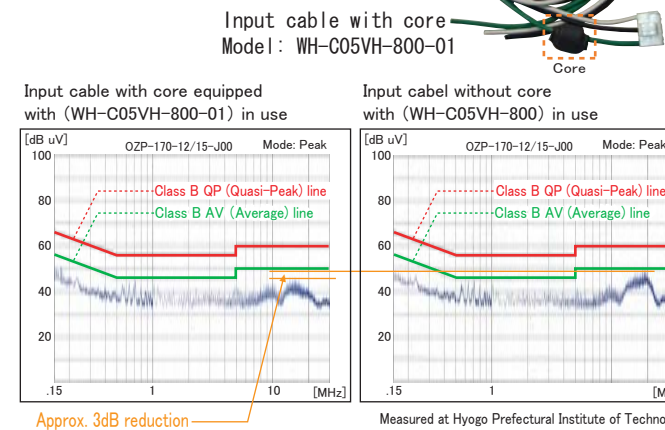


Measurement conditions

Model: OZP-170-12/15-J00
Input voltage: 240V
Output power: 150W
Output voltage: 12V
Chassis/Cover: Non
Installation direction: Standard (see the drawing on the right)

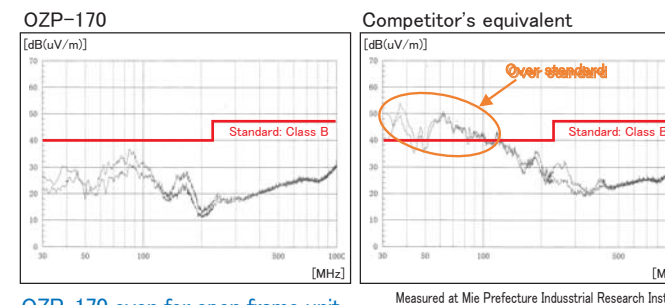


Further noise reduction with cable equipped with core; Input cable with core equipped is ready assuming various power supply installation environments for users to easily reduce noises.



Radiant noise

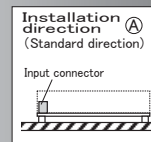
Radiant noise: The noise that is emitted as radio waves when SW' power supply operates.



OZP-170 even for open frame unit (no chassis/cover) satisfies Class B without external noise filter.

Measurement conditions

Model: OZP-170-12/15-J00
Input voltage: 100V
Output power: 150W
Output voltage: 12V
Chassis/Cover: Non
Installation direction: Standard (see the drawing on the right)



Other features

High Efficiency
High efficiency of 86% typical has been achieved (OZP-170-24 at AC 200V and rated load) by power loss reduction brought by optimized design of every component and new device adoption.

Compact & High power
Higher power! in comparison with competitor's equivalent OZP-120 series:
Continuous 120W (natural air cooling), 150W (forced air cooling), Peak 180 to 216W
OZP-170 series:
Continuous 168W (natural air cooling), 210W (forced air cooling), Peak 270 to 300W

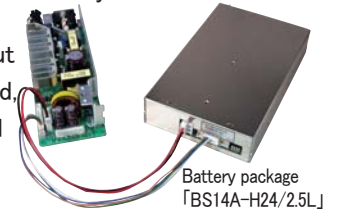
Double-sided PWBs with through holes
Double-sided PWBs with through holes for industrial use to resolve solder cracks in Lead-free process; competitor's equivalent power supply usually adopt single-sided PWBs.



Solder crack (single-sided PWB)

Output voltage settable resistor equipped as standard; More stable system operation by line-drop compensation Settable up to approx. 29V for 24V output type and usable to charging source for Lead-acid battery

Backup operation at blackout With battery package connected, 24V output type can be backed up at AC failure.



Output ON/OFF control function (RC signal) equipped as standard; Output ON/OFF control is available by Remote terminal (RC signal)

12V/15V output with selectable system 12V or 15V is selectable by shorting plug; customers can integrate systems for better control of inventories.

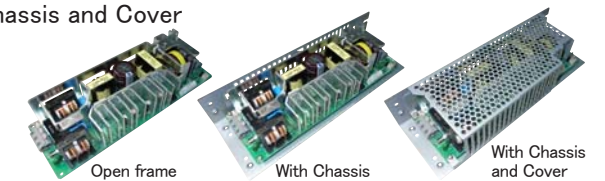
3 types of Input/Output terminals

3 types of Input/Output terminals; Connector, European terminal, and Block terminal are lined up.



Choice from Chassis and Cover

Line up of 3 types, Open frame type, With Cassis type, and With Chassis and Cover



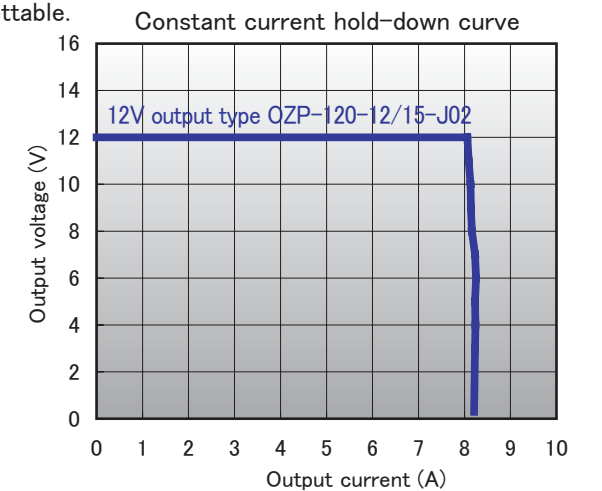
For further details about other features, refer to Nipron general catalog, page "C-E80."

If you need the catalog, contact us please.

Applications

As constant current source

This is an example in which OZP-120-12/15 has been modified to constant current source used as charger of Lead-acid battery (constant current hold-down point is settable).

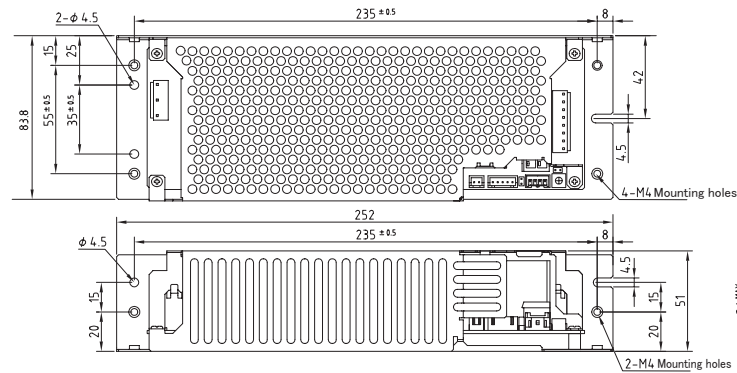


We welcome and handle your requests as many as possible by modification, etc.

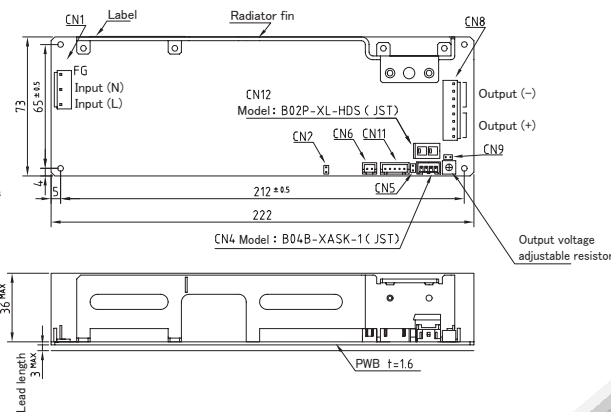
Dimensions

OZP-170 series

With Chassis & Cover

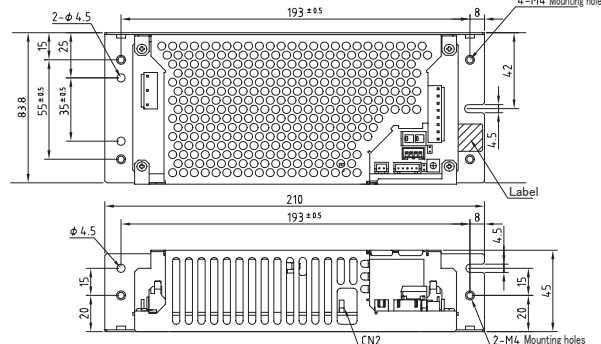


Open Frame type



OZP-120 series

With Chassis & Cover

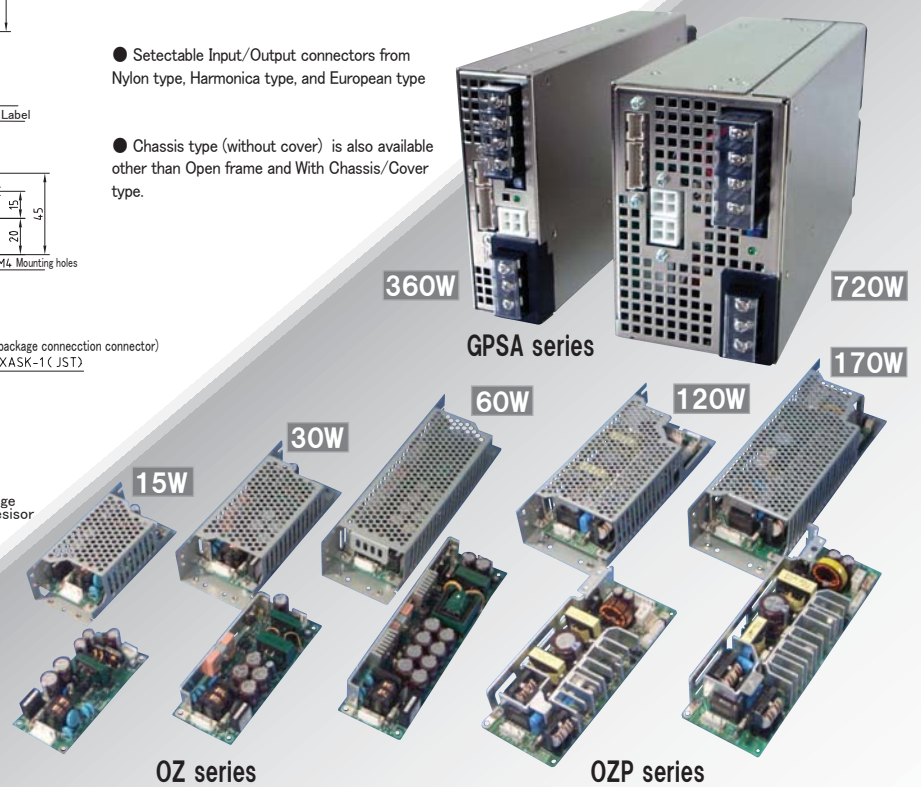
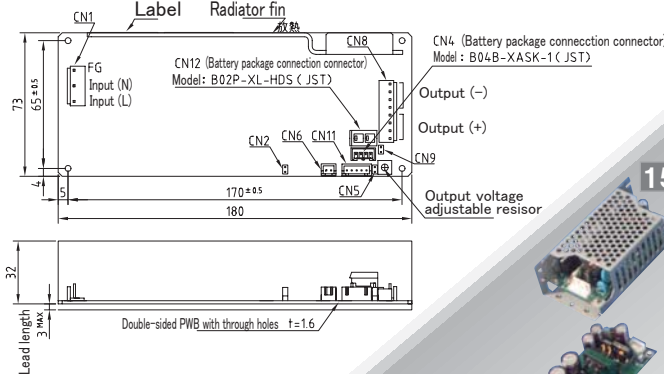


※ Visit our URL below for the product specification in detail.
<http://www.nipron.co.jp/english>

● Selectable Input/Output connectors from Nylon type, Harmonica type, and European type

● Chassis type (without cover) is also available other than Open frame and With Chassis/Cover type.

Open Frame



General Purpose AC-DC SW' Power Supply

High efficiency/Long life/Double-sided PWBs with through holes: for Industrial use High reliability power supply

OZ/OZP/GPSA series, general purpose AC-DC SW' power supply, are industrial use high reliability power supply that have achieved high efficiency and long life with Double-Sided PWBs with Through Holes. 24V output type of OZP/GPSA series can backup your system at blackout with battery package connected.

Also, GPSA series is on its way to medical standard approval to help for you in your medical approval process to eliminate insulation transformer.

Product lineup

Series / Output	3.3V	5V	12V	15V	24V
OZ(15/30/60W) series	3/6/12A	3/6/12A	1.3/2.5/5A	1/2/4A	0.7/1.3/2.5A
OZP(120/170W) series	-	-	10(15)/14(22.5)A	8(12)/11.2(18)A	5(9)/7(12.5)A
GPSA(360/720W) series	-	-	30(34)/56(70)A	-	15(17)/30(35)A

() shows peak value.

General purpose AC-DC single output SW' PSU
 Product lineup

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 ■ Company names, product names, and logos in this catalog are trademarks of each company or registered trademarks.
 ■ Specifications, design, and prices in the catalog are subject to change without prior notice.
 ■ When using our products, please contact us for product specifications and make sure to check all the items for proper use.

Mounting inside control panel

DIN rail mounting Power Supply Coming Soon!

DIN rail mounting brackets

With DIN rail bracket mounted to OZ/OZP series, DIN rail mounting is within your reach. Two types are available, one is for OZ-015/030 (small size), and the other for OZ-060 and OZP-120/170 (Large size).



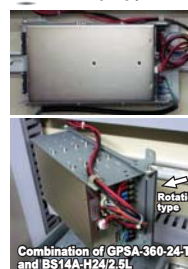
Applicable power supplies

Series name	Bracket	Size (W x D)
OZ-015 series	Small type	164 x 86
OZ-030 series		
OZ-060 series	Large type	252 x 86
OZP-120 series		
OZP-170 series		



Mounting image inside Control panel

Rotary type



GPSA series, GNSP series, and BS14A-H24/2.5L (Battery package) can be connected. Also, it makes easy wiring.

Applicable power supplies and Battery package

Series name	Available units
GPSA-360 series	Up to 2 units
GPSA-750 series	One unit only
BS14A-H24/2.5L	Up to 2 units
GNSP series	One unit only

Size (W x D x H)
252 x 130 x 83

Application example: When GPSA-360-24-TP is connected to BS14A-H24/2.5L, 24V output can keep on working at blackout.

BOX type

Multiple power supplies can be installed in a BOX. European terminal for Input/Output. Optional Lifetime display monitor can be mounted. Two units of GNSP (82 x 235 x 128) are accepted in the BOX.



Applicable power supplies / Battery package

Series name	Size (W x D x H)
OZ/OZP series	280 x 168 x 175
GPSA series	
BS14A-H24/2.5L	
GNSP series	

Any combination is acceptable per your requirement. Select any power supply as you need.

Brand New Product

for 2U rack mount server, Continuous 400W ATX PSU: PC2U-530P-X2S



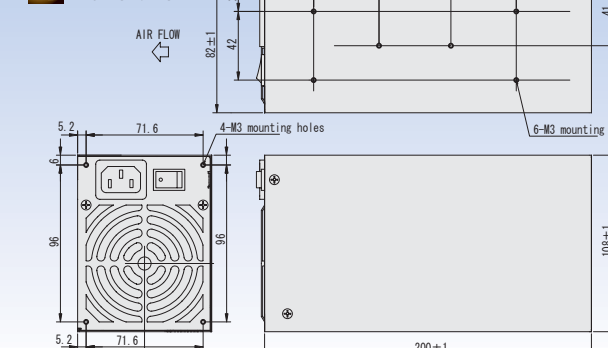
- Most suitable to Rack mount server, 2U size in height ATX power supply
- Min. load required is Zero amp. for every output. Any load is acceptable within the range of the specification so that you do not need to pay any attention to min. load current.
- Removable Output harnesses to respond to: Main 20P, 24P, Peripheral, and S-ATA connector. Select connectors from above as you need. Also, harness length can be customized.
- TSFC fan equipped to bring silence

Sample delivery is available in Aug. 2008!

Specification outline

Model	PC2U-530P-X2S				
Input voltage	85V to 264V (Worldwide range)				
Output voltage	+3.3V	+5V	+12V	-12V	+5VSB
Max. load current/Max. power (Continuous)	20A total 160W	22A total 385W	22A Total 401W	0.5A	2A
Peak load current/Peak power (5s max.)	30A total 200W	33A total 512W	30A Total 530.5W	0.5A	2.5A
Min. load required	0A	0A	0A	0A	0A

Dimensions



Backup at blackout, Continuous 150W SFX PSU: PCFL-180P-X2S2-SF



- SFX12V power supply responding to SFX12V APPENDIX D size mounting face (depth is longer).
- 0.3mA or less of leakage current at AC 100V
- With battery package (BS17A-H24/2.0L) connected to PCFL-180P-X2S2-SF, backup operation at blackout becomes available. (Backup at up to 90W is available. If more power is needed, contact us.)
- 24V output equipped type is also lined up (however, backup operation at blackout is not available.)

Sample delivery is available in Aug. 2008!

Specification outline

Model	Output voltage				
	+24V	+3.3V	+5V	+12V	-12V +5VSB
PCFL-180P-X2S2-SF	○	○	○	○	○
PCFL-180P-F1S-SF	○	○	○	○	○
PCFL-180P-F2S-SF	○	○	○	○	○
Input voltage	AC 85V to 264V				
Output voltage	+24V	+3.3V	+5V	+12V	-12V +5VSB
Max. load current/Max. power (Continuous)	5A	10A	10A	10A	0.3A 1.5A
Peak load current/Peak power (5s max.)	7.5A	10A	10A	15A	0.3A 2A
Min. load required	0A	0A	0A	0A	0A

Dimensions

