

High Voltage Power Supply

EPseries

EP-2P2 +2kV, 2mA EP-2N2 -2kV, 2mA EP-5P1 +5kV, 1mA EP-5N1 -5kV, 1mA

Most compact design in its class

Power supplies for preamplifier are integrated (±15 V, ±5 V output)

Ultra low ripple noise of as low as 15 mVp-p



EPseries

2 kV, 5 kV



High Voltage Power Supply

EP series is high performance high voltage power supply for PMT, Electron multiplier application. Ultra compact size of just 8.35-inch(212 mm) width integrated HV power supply and power supply for preamplifier ±15 V and ±5 V. The ultra low ripple noise of as low as 15 mVp-p(HV output part) is suitable for PMT and various other applications. In addition, various digital control is also possible by selecting the -LGob option.

FEATURES

- Power supplies for preamplifier are integrated (±15 V, ±5 V output)
- Low ripple 15 mVp-p(2 kV models HV output part)
- · Ultra compact design of the best in its class
- · Large and noticeable 4-digit digital meter
- · Full protections

LINEUP

MODEL	Output voltage	Output current	Ripple
WOBEL	, ,	Output current	11
EP-2P2	0 to +2 kV	2 mA	15 mVp-p
EP-2N2	0 to −2 kV	2 mA	15 mVp-p
EP-5P1	0 to +5 kV	1 mA	50 mVp-p
EP-5N1	0 to −5 kV	1 mA	50 mVp-p

SPECIFICATIONS

Input voltage / current 100~240 VAC±10 % 50 / 60 Hz single phase 0.5 A@100 VAC

Output voltage control Front panel rotary encoder

Regulation Line: 0.005 % of maximum output for

±10 % input line change

Load: 0.02 % of maximum output for

10 to 100 % load change

Stability 0.01 % / HrTemperature coef. $70 \text{ ppm} / {}^{\circ}\text{C}$

Output display Output voltage : 4-digit digital meter

(accuracy: 0.5 %F.S.±1 dgt)

Output current : 4-digit digital meter

(accuracy: 0.5 %F.S.±1 dgt)

Protection Over voltage protection

Output voltage cut off at approx. 105 % of rated output

Over current protection

Output current cut off at approx. 105 % of rated output

Output connector SHV type receptacle

Operation temp. 0 to +40 °CStorage temp. -20 °C to +60 °C

Humidity 20 % to 80 %RH(no condensation)

AC input cable three phase 2.5 m length(1)

Shielded HV output cable 2.5 m length(1)

Instruction manual(1)

SPECIFICATION FOR LOW VOLTAGE POWER SUPPLIES

	±5 V output	±15 V output
Output voltage	±5 V ±5 %	±15 V ±5 %
Output current	500 mA	200 mA
Ripple	3 mVp-p	3 mVp-p
Regulation (for ±10% input line change)	±0.1 %	±0.1 %
Regulation (for ±10% to 100 % load change)	±1 %	±0.5 %
Stability	±0.05 % / Hr	±0.05 % / Hr
Tempereture coef.	100 ppm / °C	50 ppm / °C

INPUT CABLE

Accessories

CABLE TYPE 1 (Standard)	CABLE TYPE 3 (Separate) (for the input of 200 V)	CABLE TYPE 4 (Separate) (for the input of 200 V)	
125 V / 10 A	250 V / 10 A	250 V / 10 A	

OPTION

-LGob: Optical Interface Board

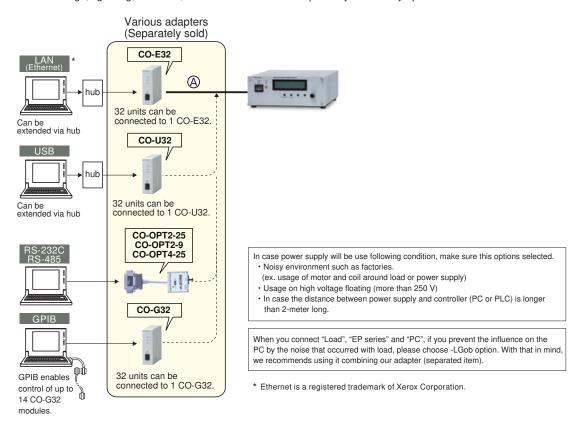
-LGob : Optical Interface Board + 2 meters long optical cable -LGob(Fc5) : Optical Interface Board + 5 meters long optical cable

-LGob(Fc10) : Optical Interface Board + 10 meters long optical cable

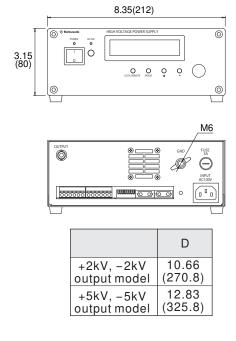
-LGob(Fc20) : Optical Interface Board + 20 meters long optical cable

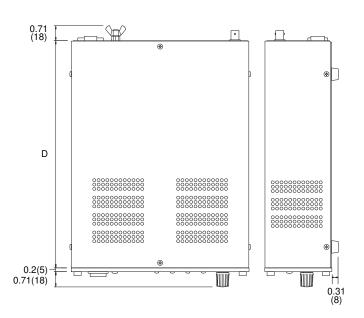
-LGob(Fc40): Optical Interface Board + 40 meters long optical cable

It is isolated by optical communication. It makes it possible to prevent malfunction caused by transient phenomenon such as surge, lightning, induction, and external noise due to perfectly isolated by optical fiber.



DIMENSIONS inch(mm)







USA/Canada: $\pm 1-888-652-8651$ other countries: $\pm 81-6-6150-5089$

Customer Inquiry Sheet (EP series)

Please copy this page and above fax number after filling out form below.

■ I would like								
□ A	quotation	☐ An explanation of product	☐ A demonstration	☐ To purchase				
Ot	her ()					
■ Give us	Give us your requirement / comment							
■ Please f	ill in below							
Addre	ess:							
Com	oany:							
Dept.	:		Title:					
Name	e:							
Tel:			Fax:					
E-ma	il:							

Manufacturer warranty

We warrant the specification, unless otherwise specified, at max. rated output after warm up, and scope of application is between 10% and 100% of max. rated output. We warrant that products contained in this catalog (hereinafter, the "Products") are free from defects in material and workmanship under normal use for a period of one (1) year from the date of shipment theored. However, the warranty period for X-ray detectors and X-ray source shall be either one (1) year from the date of shipment or 1,000 hours, whichever shorter. The above warranty shall not apply to any Product which, at our sole judgment, has been: i) Repaired or altered by persons unauthorized by us; or ii) Connected, installed, adjusted or used otherwise than in accordance with the instructions furnished by us (including being used in an inappropriate installation environment, such as in corrosive gas, high temperature and humidity). We are not liable for any loss, damage or sile. If you suspect that there has been a power supply failure in the field, please inspect your whole unit by yourself in an effort to determine that the problem is, in fact, arising out of our power supply products. If it is found that the problem is arising out of such power supply product after inspection, please contact your local sales office for additional troubleshooting. A "Return Merchandise Authorization" is required in case the power supply must be sent back to the factory in Japan for inspection and repair. We, at our sole discretion repair or replace such defective products at no cost to the purchaser. We assume no liability to the purchaser or any third party for special, incidental, consequential, or other damages resulting from a breach of the foregoing warranty. This warranty excludes any and all other warranties not set forth herein, express or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose. The Products are not designed and produced for such applications as requiring extremely high re

Make sure you read the specification in the latest catalog before you order. Contact nearby sales office for the latest catalog. PLEASE SEE THE LINK BELOW FOR THE COMPLETE WARRANTY TERMS

https://www.matsusada.com/site/warranty.html

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