



30 kV high-voltage and 30 W higt-power unit with just 2.76-inch width

Compact and Lightweight high power HV power supply

www.matsusada.com

- Outstanding manageability with compact, lightweight and simple operation
- ▶ 3-digit meter that displays output voltage and current value at all times as a standard (function).
- Available for wide input voltage range of 100 V to 240 VAC





Weight: Approx. 1.5kg



High power of 30W in this bench-top size of width 2.76-inch



FEATURES

- High voltage / power of 30 kV / 30 W
- Ultra compact and easy operation
- Voltage and current digital meter as a standard

APPLICATIONS

- Insulator Testing
- All kinds of High-Voltage Testing
- For Biasing
- School teaching materials
- Electrostatic testing
- Capacitor Charging

- Electron Beams
- Ion Beams
- Aging of electronic components
- Inspection and Evalution of inverters and power devices
- ATE(Automatic Test Equipment)

SUMMARY

EQ series is an ultra compact versatile high voltage power supply with output voltage and current meters. Its compactness and light weight enable you to carry from lab to lab, and to place anywhere. It is an ideal supply for quick testing.

LINEUP

Output voltage	Output current	Output power	MODEL	Ripple	Weight (typ.)
0 to 1 kV	30 mA		EQ-1*30	0.05 %p-p	1.5 kg
0 to 3 kV	10 mA	30 W	EQ-3*10		
0 to 10 kV	3 mA		EQ-10*3	0.08 %p-p	
0 to 30 kV	1 mA		EQ-30*1		1.6 kg

*P: positive N: negative

SPECIFICATIONS

Input voltage 100 VAC to 240 VAC, 50 / 60 Hz, single phase

Input current 0.5 A typ (@ 100VAC)

Output voltage control Local : 10-turn potentiometer on the front panel Remote : External control voltage 0 to 10 V

(accuracy : ±2 %FS) input imp. ≥ 10 kΩ

Voltage Regulation For Line : 0.01 % of max voltage for ±10 % input

line change

For Load: 0.01 % of max voltage for load change

of 10 % to 100 %

Stability 0.01 % / Hr

Temperature coef. 80 ppm / °C

Output display Output voltage : 3-digit (accuracy ±2 % of full scale ±1 dgt)

Output current: 3-digit (accuracy ±2 % of full scale ±1 dgt)

Monitor output Output voltage monitor: 10 V / rated voltage

(accuracy 2 % of full scale)

Output current monitor : 10 V / rated current

(accuracy 2 % of full scale)

(Both output impedance are 1 k Ω .)

Other Functions HV ON / OFF with external relay (LS)

Protection Functions Over voltage (Cut off at 105 % of rated output)

Over current (Current limit with automatic crossover)

Arc and short circuit

Temperature Operating: 0 to + 50 °C

Accessories

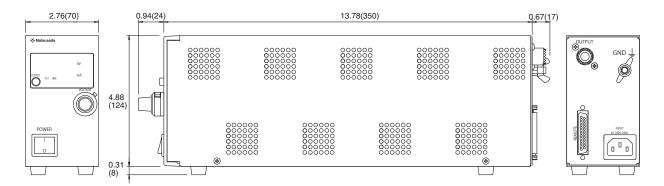
Storage : -20 to + 60 °C

Humidity : 20 % to 80 %RH(no condensation) AC input cable with 3-pin plug 2.5 m (1)

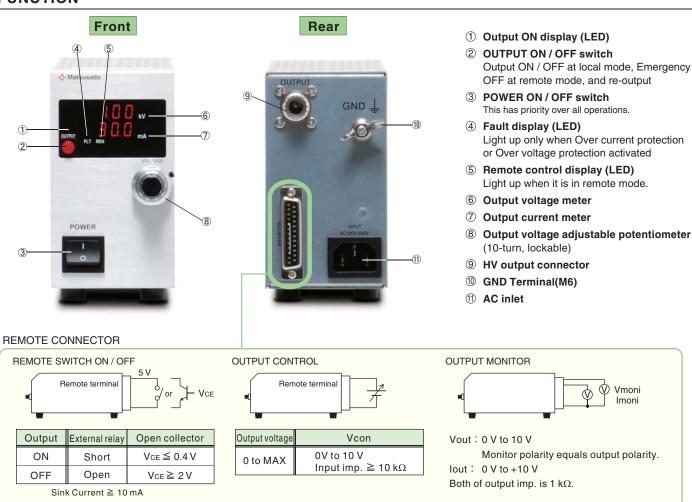
Shielded HV output cable (FLying lead, 2.5 m) (1)

Instruction manual (1)

DIMENSIONS inch(mm)



FUNCTION



OPTION

-LCt Limit the current by cutting output off at the time of over current(manual return)

When ordering, add the above option mark to the end of the model number. <e.g.>EQ-10N3-LCt

INPUT/OUTPUT CABLE

Inp	Output		
CABLE TYPE 1 125 V / 10 A (standard)	CABLE TYPE 3 250 V / 10 A (separate)	CN-□-MHVP (standard)	
		J	



USA/Canada: +1-888-652-8651 other countries: +81-6-6150-5089

Customer Inquiry Sheet (EQ 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
Other ()	
■ Give us your requirement / comment		
		J
■ Please fill in below.		
Address:		
Company:		
Dept.:	Title:	
Name:		
Tel:	Fax:	
E-mail:		

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 thereof. 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 failure of the Products after the shipment thereof caused by external factors such as disasters. We will not inspect, adjust or repair any of our power supply products in the field or at any customer site. 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, inc

submitted to users. Test result or test data for the products shall be available upon request with charge.

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

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



Website www.matsusada.com

San Jose Office: 2570 N.First Street Suite 200 San Jose, CA 95131 North Carolina: 5960 Fairview Rd. Suite 400, Charlotte, NC 28210 Tel: +1-408-273-4573 Fax: +1-408-273-4673 Office Tel: +1-704-496-2644 Fax: +1-704-496-2643

International Office: Osaka-City, Osaka Japan

Tel: +81-6-6150-5088 Fax: +81-6-6150-5089 **Headquarters:** 745 Aoji-cho Kusatsu Shiga 525-0041 Japan