

High Voltage Bipolar Power Supplies DOC Series



High Voltage of 1kV, Fast Response of 10kHz

High Voltage Bipolar Power Supply

DOC500-0.1	±500V, 0.1A
DOC500-0.2	±500V, 0.2A
DOC1000-0.05	±1kV, 0.05A
DOC1000-0.1	±1kV, 0.1A



- Maximum output voltage 1kV
- Switchable the operating mode "CV" and "CC"
- Available for a wide range of AC input voltage of 85V to 256V.



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DOCC High Voltage/Fast Response Four-quadrant bipolar power supply



Features

- · Compact, high voltage, and high power
- Four-quadrant output (Source and Sink are available.)
- CV/CC operation is selectable
- · Voltage limit, Current limit setting feature
- High-speed response, 10 kHz

Summary

DOC series is ±500 V/±1000 V high voltage four-quadrant bipolar power supplies.With its feature of voltage limit and current limit setting at will. It will drastically reduce the risk of applying excessive stress on your load. The output terminal is available on the front panel for excellent operability.

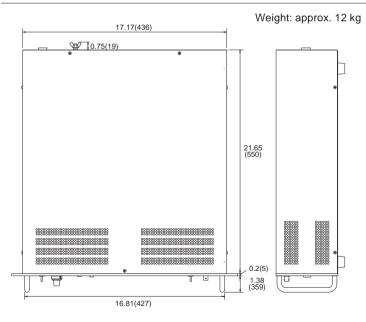
Lineup

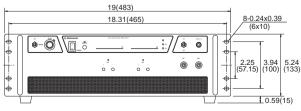
Output Voltage	Output Current	MODEL	Frequency bandwidth (-3 dB)	
Output voltage	Output Current		CV	CC
	0 mA to 100 mA	DOC500-0.1		
0 V to ±500 V	0 mA to 200 mA	DOC500-0.2	DC to 10 kHz	DC to 5 kHz
0 V to ±1000 V	0 mA to 50 mA	DOC1000-0.05		
	0 mA to100 mA	DOC1000-0.1		

Specifications

Input voltage	85 Vac to 256 Vac 50/60 Hz single phase 2 A typ.@100 V	
Output control	External control voltage -10 Vdc to +10 Vdc (Input imp \ge 10 k Ω)	
DC Bias	10-turn potentiometer enables setting between -100% and +100%	
Voltage regulation	Line : ±0.01% (for ±10% input change) Load: ±0.05% (for 10% to 100% load change)	
Current regulation	Line : ±0.01% (for ±10% input change) Load: ±0.05% (for 10% to 100% load change)	
Ripple	CV mode: 0.02% rms CC mode: 0.2% rms	
Stability	0.01%/Hr	
Temperature coef.	0.01%/°C	
Output display (DC value)	Output voltage: 3.5-digit digital meter ±1999 Output current: 3.5-digit digital meter ±1999	
Monitors	Voltage monitor: -10 Vdc to +10 Vdc (Output imp: 1 k Ω) Current monitor: -10 Vdc to +10 Vdc (Output imp: 1 k Ω)	
Protection	Over voltage protection: Output is cut off at a set value. (setting range: 0% to 110% approx. of rated output) Over current protection: Limit output current with dropping output voltage. (setting range : 0% to 110% approx. of rated output) Blackout protection (can be canceled with -LN option) Output short circuit protection Door switch(interlock)	
Other functions	Remote switch (Output ON/OFF) Output Relay Open collector ON SHORT Vc∈ ≤ 0.4 V OFF OPEN Vc∈ ≥ 2 V Sink Current 1 mA	
Operating temperature	0°C to +40°C	
Storage temperature	-20°C to 70°C	
Relative humidity	20% to 80%, non condensing	
Accesories	AC input cable 2.5 m (1) Instruction manual (1)	

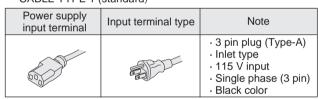
Dimensions inch(mm)





Input cable

CABLE TYPE 1 (standard)



When using DOC series under the environment that input voltage is 200 Vac, please purchase this CABLE TYPE3 separately.

Power supply input terminal	Input terminal type	Note
Contraction of the second seco		Open terminal Inlet type 220 V input Single phase (3 pin) Black color

Option

-LN No protection against blackout

When ordering, suffix the following option mark to the model number.

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

Customer Inquiry Sheet (DOC 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

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 flat 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, 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 p

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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