### Compact, Low Cost High Voltage Converter

## 1.5kV to 25kV (Positive or Negative) @ 1.5 Watts DX Series





The DX series is a line of compact power supplies providing up to 25,000 VDC for air cleaners, igniters, dielectric testers, electrostatic field generators and other applications requiring a compact source of clean, reliable, low cost high voltage. This unit exhibits low noise and EMI/RFI by utilizing a quasi-sinewaye oscillator and a fully enclosed

ferrite pot core transformer. The output voltage is controlled by an external potentiometer or resistor. Both positive and negative outputs are available. The high voltage connection is made through a 30kV silicone wire. Call, fax, or e-mail your requirements for immediate attention.

#### **FEATURES**

Resistance Controllable Low EMI/RFI Sinewave Oscillator Small Size Short Circuit Protection Low Cost/High Performance

#### **OPTIONS**

24V Input

RoHS (- 'R' suffix denotes the product is designed to meet RoHS requirements

i.e DX100R)

Input/Output Connectors (DX100-DX200)

Input/Output Isolation Voltage Monitor

**Epoxy:** A. Low Outgassing (NASA approved per ASTM E-959-93)

B. UL 94 V0 flammability rating

Fixed Output Voltage

APPLICATION
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Air cleaners
Igniters
Dielectric Testers
Ionizers
Electrostatic Generators
CRT Anodes
Image Intensifiers
Capacitor Charging

# PHYSICAL CHARACTERISTICS

SIZE: 3.75 x 1.5 x 1 (95.3 x 38.1 x 25.4 ) WEIGHT: 7 Ounces (198 grams) PACKAGING: Fully Encapsulated CASE MATERIAL: Glass-filled Epoxy

HV OUTPUT LEAD: #22 AWG, 30KV, Silicone

MODEL	OUTPUT VOLTAGE	OUTPUT* <sup>1</sup> CURRENT
DX100	1.5kV to 10kV	100 uA
DX100N	-1.5kV to -10kV	100 uA
DX120	1.8kV to 12kV	100 uA
DX120N	-1.8kV to -12kV	100 uA
DX150	2.5kV to 15kV 15kV	100 uA
DX150N	-2.5kV to -15kV	100 uA
DX200	3kV to 20kV	75 uA
DX200N	-3kV to -20kV	75 uA
DX250	4kV to 25kV	75 uA
DX250N	-4kV to -25kV	75 uA
DX250N-24*2	-10kV to -25kV 75 uA	

#### \*Note

- 1. At Maximum Rated Output Voltage.
- 2. 24V Input Option

Dimensions are in Inches
Dimensional Tolerances: ± .03 (.76 mm)
(Metric Equivalents in Parentheses)

WIRE COLOR	AWG	FUNCTION	
Red	22	(+) Input	
Black	22	Ground (InputOutput)	
Orange	22	Voltage Control	
30KV Silicone	22	HV Output	

TIP: LEAVE ORANGE WIRE DISCONNECTED AND VARY THE INPUT VOLTAGE FOR PROPORTIONAL OPERATION.

#### **ELECTRICAL SPECIFICATIONS**

INPUT VOLTAGE: 12 Volts (-5%, +10%)

INPUT CURRENT, NO LOAD: <250mA, FULL LOAD: <400mA

OUTPUT VOLTAGE: See Table OUTPUT CURRENT: See Table

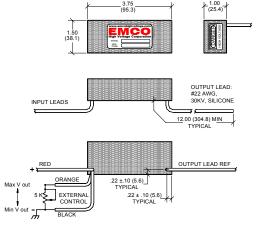
RIPPLE: 2% P-P

VOLTAGE CONTROL: Connect 5K Potentiometer with wiper arm to orange wire. Connect remaining potentiometer lead to

black wire.

OPERATING TEMP: -10° to +50° C

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