

**Proven
Reliability**

DX SERIES

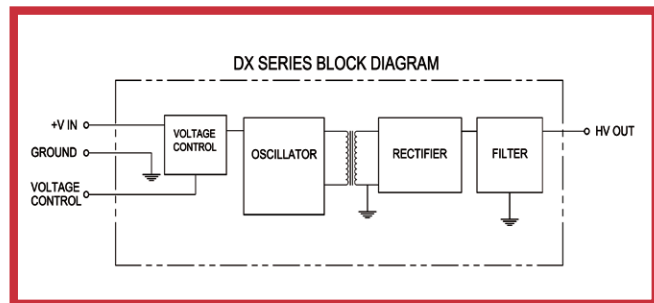
COMPACT, LOW COST HIGH VOLTAGE DC CONVERTER

1.5 kV to 25 kV @ 1.5 WATTS



PRODUCT DESCRIPTION

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 quasisinewave 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.



APPLICATIONS

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

PRODUCT SELECTION TABLE

MODEL	OUTPUT VOLTAGE	MAXIMUM OUTPUT CURRENT*1
DX100	+1.5 kV to 10 kV	100 uA
DX100-24*2	+2 kV to +10 kV	100 uA
DX100N	-1.5 kV to -10 kV	100 uA
DX120	+1.8 kV to 12kV	100 uA
DX120N	-1.8 kV to -12kV	100 uA
DX150	+2.5 kV to 15 kV	100 uA
DX150N	-2.5 kV to -15 kV	100 uA
DX200	+3 kV to 20 kV	75 uA
DX200N	-3 kV to -20 kV	75 uA
DX250	+4 kV to 25 kV	60 uA
DX250N	-4 kV to -25 kV	60 uA
DX250-24*2	+10 kV to 25 kV	60 uA
DX250N-24*2	-10 kV to -25 kV	60 uA

FEATURES

- Resistance Controllable
- Low EMI/RFI Sinewave Oscillator
- Small Size
- Short Circuit Protection
- Low Cost/High Performance
- UL Certified Encapsulant, Meets 94V-0 Flammability
- RoHS Compliant

OPTIONS

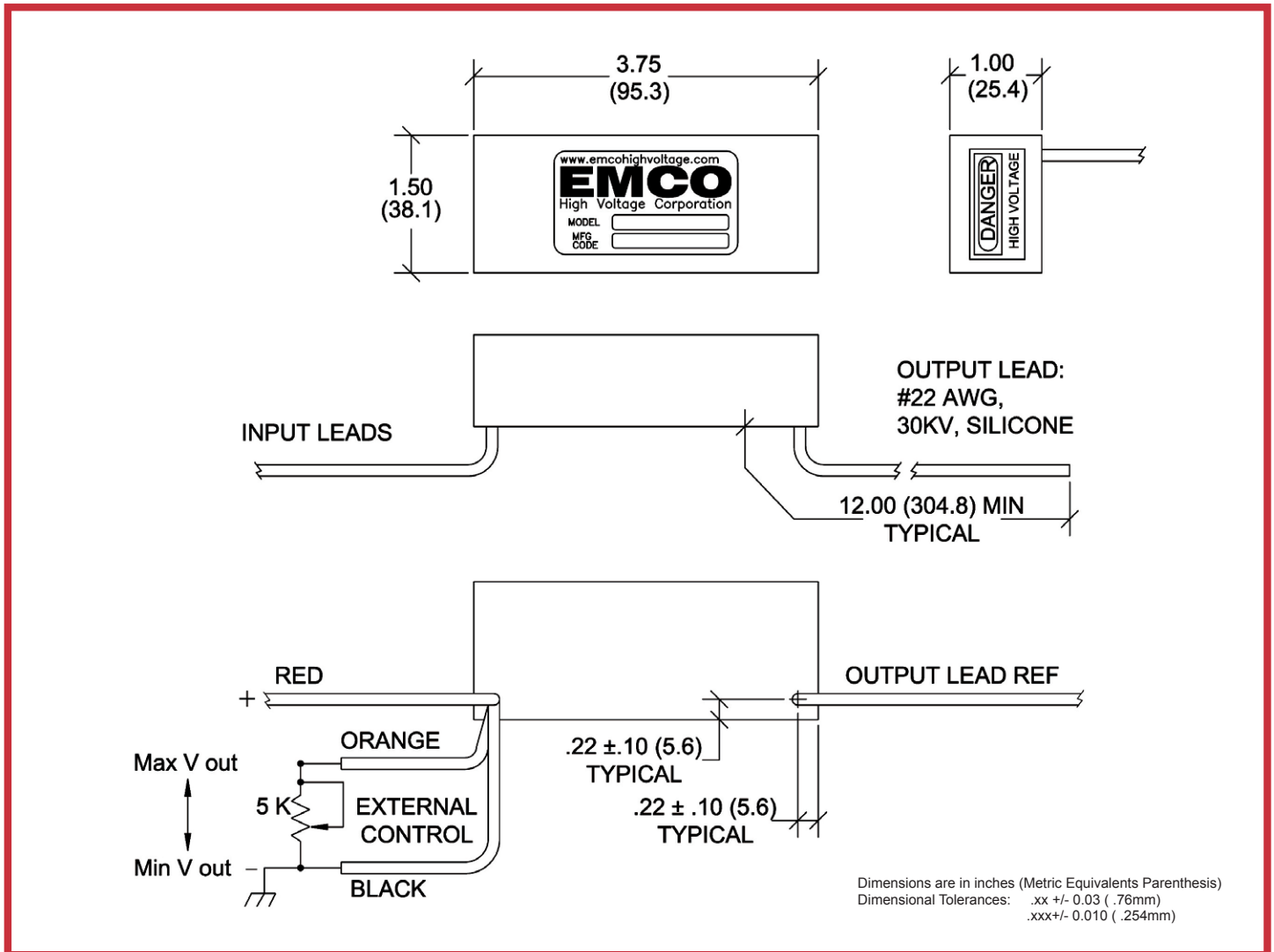
- 24V Input - Please Consult Factory for Models Not Shown
- Input/Output Connectors (DX100-DX200)
- Input/Output Isolation
- Fixed Output Voltage

ELECTRICAL SPECIFICATIONS*3

PARAMETER	VALUE
INPUT VOLTAGE	+12 VDC (-5%, +10%)
	+24VDC (-5%, +10%), FOR 24 VDC INPUT MODELS
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.
STANDARD TEMPERATURE RANGES	OPERATING: -10°C to +50°C ⁴ (CASE)
	STORAGE: -25° C to +90°C

VIN	INPUT CURRENT	
	NO-LOAD	FULL-LOAD
12 VDC	<250 mA	<400 mA
24 VDC	<150 mA	<250 mA

MECHANICAL SPECIFICATIONS



PARAMETER	VALUE
WEIGHT	7 OUNCES APPROX. (198 GRAMS)
VOLUME	5.625 CUBIC INCHES (92.18 CM ³)
DIMENSIONS	3.75L (95.25) x 1.50W (38.1) x 1.00H (25.4)

WIRE COLOR	AWG	FUNCTION
RED	22	(+) INPUT
BLACK	22	GROUND (INPUT/OUTPUT)
ORANGE	22	VOLTAGE EXTERNAL CONTROL
WHITE	22	HV OUTPUT

- Note:
1. At maximum rated output voltage
 2. 24V Input Option
 3. Specifications after 1 hour warm-up, full load, at 25°C unless otherwise indicated
 4. Proper thermal management techniques are required to maintain safe case temperature at maximum power output.

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