

Regulated, Programmable 15 Watt HV Modules

0 to +300 through 0 to +10,000 VDC @ 15 Watts

0 to - 300 through 0 to - 6,000 VDC @ 15 Watts

H Series

www.emcohighvoltage.com

EMCO
High Voltage Corporation



FEATURES

0 to 100% Programmability
Output Voltage Monitor
Short Circuit Protection
Reverse Polarity Protection
Arc Protection
Low EMI / RFI
Shielded Metal Case
Input/Output Filtering

OPTIONS (Through H60)

Mounting Holes
(Add 'H' to end of model e.g. H10NH)

APPLICATIONS

Piezo devices
HV op amp rails
Ultrasonic transducers
Lamp ignition & drive
Electrophoresis
Capacitor Charging
Lasers
General Lab Use

PHYSICAL CHARACTERISTICS

CASE A: 3.0 (76.2) X 3.0 (76.2) X 0.90 (22.9)

WEIGHT: 10 Ounces (283.5 grams)

PINS: .04 (1.02) Dia., .30 (7.62) min length

CASE B: 3.25 (82.6) x 4.0 (101.6) x 1.10 (27.9)

WEIGHT: 18 Ounces (510.3 grams)

PINS: .04 (1.02) Dia., .20 (5.08) min length

PACKAGING: Fully Encapsulated

CASE MATERIAL: Black Anodized Aluminum

ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: 24 Volts (+/-0.5 Volt)

OUTPUT VOLTAGE: See Table

OUTPUT CURRENT: See Table

PROGRAMMING VOLTAGE: 0 to +5 Volts , <100 μ A

REGULATION: Line: < 0.2%

Load: See Table

INPUT CURRENT: No Load: <0.5 Amps

Full Load: <1.5 Amps

TEMPERATURE COEFFICIENT: < 200ppm/ $^{\circ}$ C

RIPPLE: See Table

OPERATING TEMP: -10 $^{\circ}$ to +50 $^{\circ}$ C

STORAGE TEMP: -20 $^{\circ}$ to +90 $^{\circ}$ C

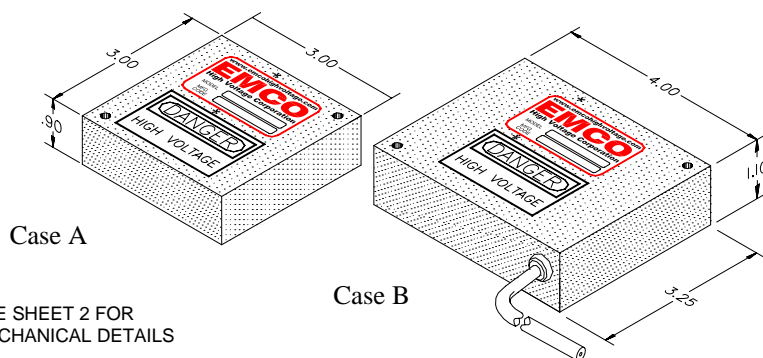
MAXIMUM CASE TEMP: +85 $^{\circ}$ C (measured at points indicated)

The H Series is a line of compact, regulated power supplies featuring 15 watts of continuous output power.*¹ This line features 0 to 100% programmability via a 0 to 5 volt

programming voltage. A 0 to 5 volt output voltage monitor is provided. Short circuit, arc, and reverse polarity protection are standard. Technical assistance is readily available.

MODEL	OUTPUT VOLTAGE	OUTPUT* ¹ CURRENT	RIPPLE	REGULATION (LOAD)	CASE SIZE
H03P	0 to +300	50 mA	<1.0%	<0.75%	A
H03N	0 to -300	50 mA	<1.0%	<0.75%	A
H05P	0 to +500	30 mA	<0.5%	<0.20%	A
H05N	0 to -500	30 mA	<0.5%	<0.20%	A
H10P	0 to +1,000	15 mA	<0.01%	<0.20%	A
H10N	0 to -1,000	15 mA	<0.01%	<0.20%	A
H15P	0 to +1,500	10 mA	<0.025%	<0.20%	A
H15N	0 to -1,500	10 mA	<0.02%	<0.20%	A
H20P	0 to +2,000	7.5 mA	<0.03%	<0.20%	A
H20N	0 to -2,000	7.5 mA	<0.03%	<0.20%	A
H30P	0 to +3,000	5 mA	<0.75%	<0.20%	A
H30N	0 to -3,000	5 mA	<1.0%	<0.20%	A
H40P	0 to +4,000	3.75 mA	<0.75%	<0.20%	A
H40N	0 to -4,000	3.75 mA	<0.75%	<0.20%	A
H50P	0 to +5,000	3 mA	<0.75%	<0.20%	A
H50N	0 to -5,000	3 mA	<0.75%	<0.20%	A
H60P	0 to +6,000	2.5 mA	<0.75%	<0.50%	A
H60N	0 to -6,000	2.5 mA	<0.75%	<0.20%	A
H101P	0 to +10,000	1.5 mA	<1.0%	<0.20%	B

*Note1. At Maximum Rated Output Voltage.



Dimensions are in inches
Dimensional Tolerances: $\pm .03$ (.76mm)
(Metric equivalents in parenthesis)

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We reserve the right to make changes without notification

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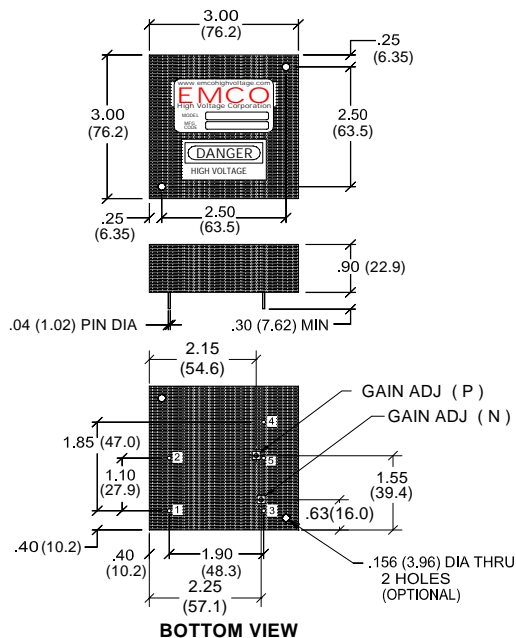
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CASE A

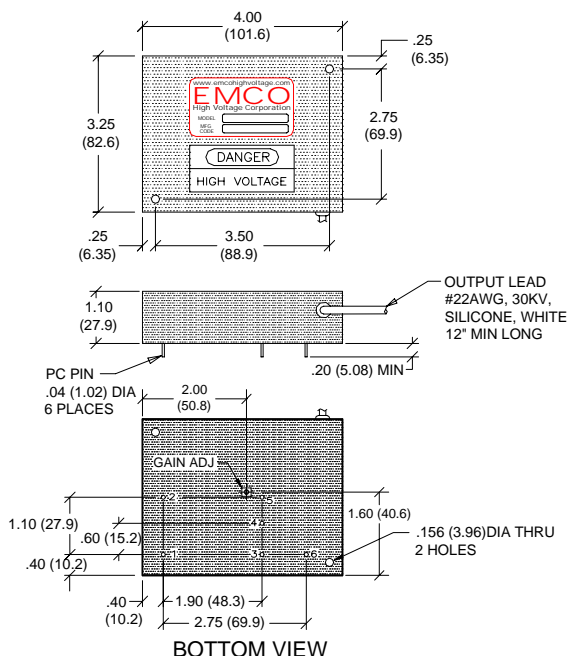


Pin #	Function
1	+24V Input
2	Ground
3	Programming Volts: 0 to +5V
4	High Voltage Output
5	Voltage Monitor: Positive Outputs: 0 to +5V = 0 to 100% V out Negative Outputs: 0 to -5V = 0 to 100% V out

Dimensions are in Inches
Dimensional Tolerances: ± 0.03 (.76mm)
(Metric equivalents in parenthesis)

NOTE:
RUN SEPARATE GROUND PATHS TO PIN 2
FOR POWER AND SIGNAL GROUNDS.

CASE B



Pin #	Function
1	+24V DC
2	Ground
3	Programming Volts: 0 to +5V
4	Programming Return
5	Voltage Monitor: 0 to 5V = 0 to 100% V out
6	Output Return

Dimensions are in Inches
Dimensional Tolerances: ± 0.03 (.76mm)
(Metric equivalents in parenthesis)

NOTE:
RUN SEPARATE GROUND PATHS FOR
POWER AND SIGNAL GROUNDS.