

# Hollow Cathode Lamp Supply

Adjustable Current Regulated Lamp Supply  
HC Series

www.emcohighvoltage.com

**EMCO**  
High Voltage Corporation



The HC20 is a compact, modular hollow cathode lamp power supply featuring adjustable current. Both the ignition and the drive voltages are supplied and the current is adjustable from 0 to 20 mA via a potentiometer or optional remote analog

signal. Remote enable/disable control is standard, and 12 or 24 volt inputs are available. Suitable for OEM applications, these modules are offered with flying leads and feature two 0.140" mounting holes.

## FEATURES

Adjustable Output Current

## OPTIONS

Remote Current Control, add R to Model (See Chart)

Input, Output Connectors

## PHYSICAL CHARACTERISTICS

SIZE: 3.75 x 1.5 x 1 (95.3 X 38.1 X 25.4)

WEIGHT: 4.5 Ounces (128 Grams) Approx.

PACKAGING: Fully Encapsulated

CASE MATERIAL: Fiberglass

## ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: 12 or 24V See Table

OUTPUT VOLTAGE: 100-300V

OUTPUT CURRENT: 0-20 mA

IGNITION: 500V Nominal

ON/OFF CONTROL:

ON: Open Circuit or >2.5 Volts

OFF: Ground or <0.5 Volts

Open Collector Transistor Compatible

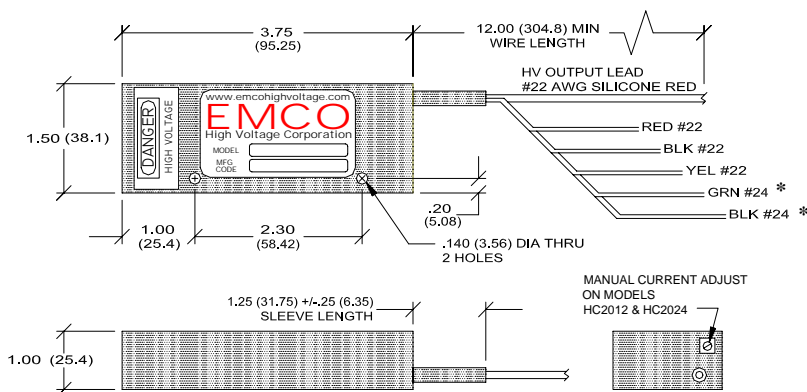
OPERATING TEMP: -10° to +60° C

STORAGE TEMP: -10° to +95° C

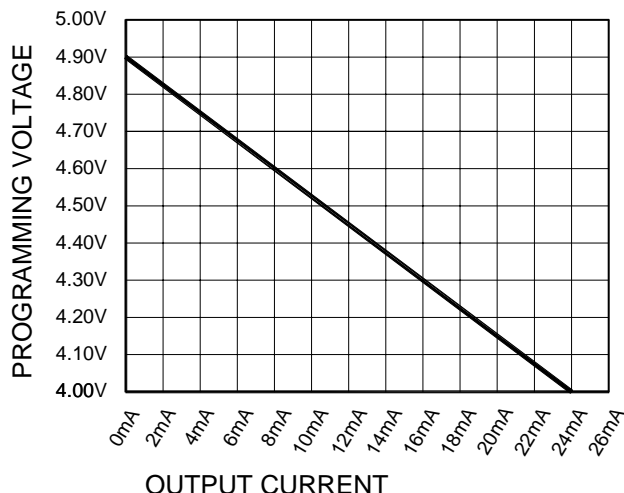
MODEL	INPUT VOLTAGE	OUTPUT * VOLTAGE	OUTPUT CURRENT
HC2012	12 (-5%/+10%)	100 to 300	0 to 20 mA
HC2024	24 (-5%/+10%)	100 to 300	0 to 20 mA
HC2012R	12 (-5%/+10%)	100 to 300	0 to 20 mA
HC2024R	24 (-5%/+10%)	100 to 300	0 to 20 mA

Ignition Voltage: 500 Volts Nominal \* At Full Rated Current

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



## Remote Programming Option



WIRE CHART			
AWG	COLOR	TYPE	FUNCTION
22	RED	30KV SILICONE	(+) OUTPUT
22	RED	600V TFE	(+) INPUT POWER
22	BLACK	600V TFE	POWER RETURN
22	YELLOW	600V TFE	ON/OFF CONTROL
* 24	GREEN	600V TFE	PROGRAMMING INPUT (SEE GRAPH)
* 24	BLACK	600V TFE	PROGRAMMING RETURN

\* Programmable Models Only

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