0 to + or - 1,000 through 0 to + or - 33,000 VDC @ 10 Watts 4000 Series





FEATURES

0 to 100% Adjustability Voltage Programmable Voltage Monitor * Remote On/Off Control **EMI/RFI** Shielding Short Circuit Protection **Reverse Polarity Protection** Arc Protection * Excluding Models 4300 & 4330

OPTIONS

Negative Output Voltage, put "N" after model (For example: 4300N)

APPLICATIONS

Cathode Ray Tubes Lasers and Q Switches Capacitor Charging **Test Instrumentation Electrostatic Field Generators** Electrophoresis

PHYSICAL CHARACTERISTICS

MODELS 4010 thru 4200 • SIZE: 4.1 (104) x 3.1 (78.7) x 1.4 (35.56) MODELS 4300 thru 4330 • SIZE: 4.1 (104) x 3.6 (91.4) x 1.4 (35.56) WEIGHT: 1.5 Pound (.675 kg.) Approx. CASE MATERIAL: Black Anodized Aluminum INPUT CONNECTOR: Molex 09-75-2074 MATING CONNECTOR: Molex 09-50-3071 (Supplied) MOLEX PINS: 08-50-0106 (supplied) MODELS 4010 thru 4200 • HV LEAD: 30KV 22 AWG MODELS 4300 thru 4330 • HV LEAD: 40KV 20 AWG

ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: +24 Volts (+20%-5%) OUTPUT VOLTAGE: See Table **OUTPUT CURRENT: See Table** ANALOG CONTROL: 0 to 10 Volts=0 to 100% Output VOLTAGE MONITOR: 0 to 10 Volts=0 to 100% Output ON/OFF CONTROL: On=0 Volts or N.C. Off=5 Volts REFERENCE OUTPUT: 10 Volts (± 0.5%) OPERATING TEMP: -10° to +60° C

e-mail sales@emcohighvoltage.com Web site www.emcohighvoltage.com The 4000 Series is a line of fully adjustable DC to DC converters providing an economical source of high voltage that is ideal for CRT's, lasers, Q switches, PMT's, detectors, electron and ion guns, capacitor charging, test equipment, and many other applications. These units feature remote voltage programming, resistance programming, or manual adjustability via an externally accessible potentiometer. Short

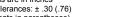
circuit protection, arc protection, and reverse polarity protection are standard as well as remote on/off and a 0 to 10 volt output voltage monitor. The 4000 Series has a built-in 10V precision reference output available. These units also feature excellent EMI/RFI shielding. Two #6-32 studs mount the supply in a three inch mounting pattern. Call, e-mail or fax your requirements for immediate attention.

PROGRAMMING					
VOLTAGE: RESISTANCE: MANUAL:		Apply 0-10V to pin 5 for 0- 100% output.			
		Connect potentiometer to pin 4 (reference voltage), connect wiper arm to pin 5, and connect potentiometer to ground.			
		Connect pin 6 to pin 5, turn front panel pot for voltage adjust.			
	PIN	FUNCTION			
	1	On-Off Control			
	2	Ground/Case			
	3	+24 Volt Input			
	4	10 Volt Reference Output			
	5	Programming Voltage			
	6	Internal Potentiometer			
	7	Voltage Monitor			
		imensions are in Inches			

MODEL	OUTPUT VOLTAGE	OUTPUT * ¹ CURRENT	RIPPLE P-P
4010	0 to 1,000	10 mA	.1%
4020	0 to 2,000	5 mA	.1%
4030	0 to 3,000	3.3 mA	.2%
4050	0 to 5,000	2 mA	.1%
4070	0 to 7,000	1.4 mA	.1%
4100	0 to 10,000	1 mA	.1%
4120	0 to 12,000	.8 mA	.1%
4150	0 to 15,000	.67 mA	.1%
4200	0 to 20,000	.5 mA	.2%
4300* ²	0 to 30,000	.33 mA	.4%
4330* ²	0 to 33,000	.30mA	.2%

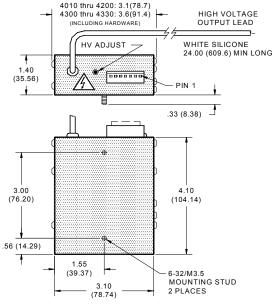
Dimensional Tolerances: ± .30 (.76) (Metric equivalents in parentheses)

2. No Voltage Monitor



*Note: 1. At Maximum Rated Output Voltage.





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