

Automatic Reversible Polarity Power Supplies

www.emcohighvoltage.com

EMCO
High Voltage Corporation

0 to + or - 500 through 0 to + or - 10,000 VDC

RP Series



The "RP" Series offers independently adjustable from 0 to 100% via 0 to 10 volt inputs. Polarity is controlled via a TTL signal. These units also feature a voltage monitor, enable/disable TTL control, and a TTL compatible polarity indicator. The positive and negative voltage levels are

MODEL	MAX OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE
RP05	±500	1.33 mA	0.05%
RP10	±1,000	700 µA	0.05%
RP15	±1,500	500 µA	0.05%
RP25	±2,500	300 µA	0.05%
RP35	±3,500	217 µA	0.05%
RP50	±5,000	170 µA	0.05%
RP60	±6,000	135 µA	0.05%
RP75	±7,500	105 µA	0.05%
RP100	±10,000	80 µA	0.05%

FEATURES

- Automatic, Solid State Polarity Reversal
- Remote Control
- Remote Monitoring
- Low Stored Energy
- Low Ripple
- Arc Protection
- Short Circuit Protection
- Reverse Polarity Protection
- 10 Volt Reference Output

PHYSICAL CHARACTERISTICS

SIZE: 8.5 x 4.5 x 1.5 (216 x 114 x 38 mm)
 WEIGHT: 4 Pounds (1.82 kg) Approx.
 PACKAGING: Fully Encapsulated
 CASE MATERIAL: Anodized, Aluminum
 INPUT CONNECTOR: 15 Pin Male Sub-Miniature D

ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: 24 Volts (-5%, +20%)
 OUTPUT VOLTAGE: See Table
 OUTPUT CURRENT: See Table
 VOLTAGE PROGRAMMING: 0 to 10 Volts
 VOLTAGE MONITOR: 0 to ±10 Volts
 POLARITY CONTROL:

NEGATIVE: 0 Volts
 POSITIVE: 5 Volts

ENABLE/DISABLE:

ON: 0 Volts
 OFF: 5 Volts

POLARITY INDICATOR:

NEGATIVE: 0 Volts
 POSITIVE: 5 Volts

REFERENCE OUTPUT:

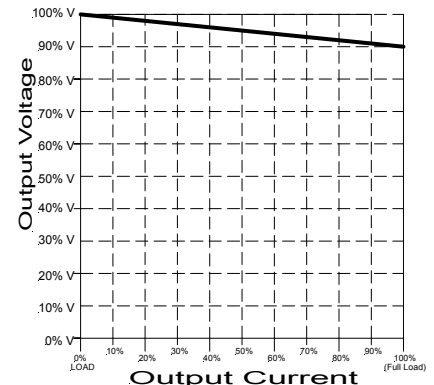
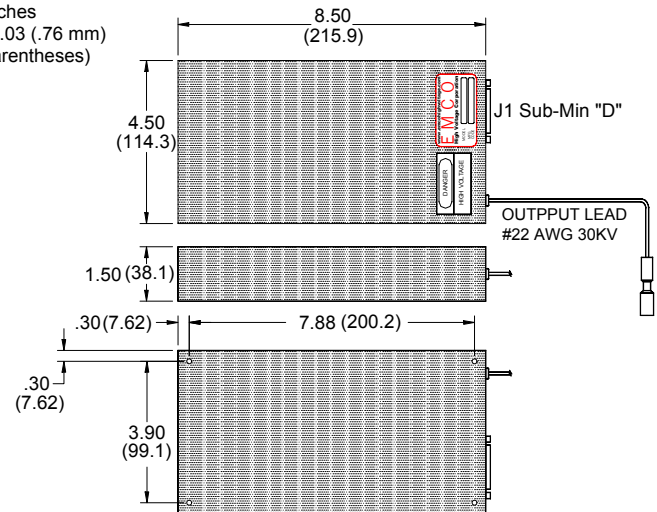
10 Volts (±0.3%)

OPERATING TEMP:

-10° to +60° C

J1 Pin #	Wire Color	AWG	Function
J1-1	Green	22	Programming Volt In (+Vout)
J1-2	Blue	22	Programming Volts In (-Vout)
J1-5	Yellow	22	Voltage Monitor
J1-6	Gray	22	Polarity Switch
J1-7	Black	20	(-) Volts Input/Case
J1-8	Black	24	Signal Return
J1-9	Brown	22	Polarity Indicator 5V = (+)
J1-12	Violet	22	Enable/Disable
J1-14	Orange	22	10 V Reference
J1-15	Red	20	(+) Volts Input

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



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