REF/ES8
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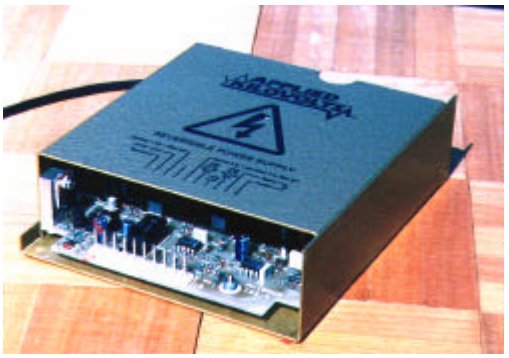
ES008RCP150
BI-POLAR ELECTROSPRAY 8 kV MODULES



Applications
Electrospray
APCI
Deflector plates

This power supply provides up to ±8kV for electrospray & APCI applications. Output polarity can be remotely changed by control pin voltages. As the unit does not use high voltage relays the polarity can be repeatedly changed at high speed without reducing the life of the unit. The power supply can be operated under current control in electrospray & APCI applications in mass spectrometers. Please consult the factory for special variants of this supply including higher speed versions, for volume applications.

Electrical Specification

Input voltage:		+24V d.c. ±0.5V at 0.7A & -15V d.c. ±0.5V at 0.02A.
Output Voltage:		±5kV limited to 500uA in Voltage Mode, ±8kV at 35uA in Current mode.
Control:	Vctrl Mode	0 to +10V gives 0 to ±5 kV limited to 500uA
	Ictrl Mode	0 to +10V gives 0 to ±35uA sourced from ±8 kV.
Voltage Monitor:		0 to ±10V represents 0 to ±5kV, ±5%. Source resistance 400k ohm.
Polarity:		Reversible selection is by grounding of appropriate control lines. (Current less than 25 mA.)
Line regulation:		< 100ppm for 1V change in input voltage.
Load regulation:		< 100ppm for 10% to full load.
Ripple:		< 1 volt peak to peak.
Temperature co-efficient:		<150ppm/ °C
Operating temperature:		0 °C to +45 °C.
Current Monitor (pin 7):		0 to +10V represents 0 to ±35uA. Source resistance 10k ohm. Tol ±5%.

Mechanical Specification

Size:	160mm x 145mm x 48mm.
Output cables:	By flying lead type URM43 length 0.5 metres.
Input Connector:	10 pin Molex.

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Connections:

Pin 1	Mode control - +24V = Current Mode 0V or o/c = Voltage Mode
Pin 2	+24V DC
Pin 3	Voltage Monitor o/p
Pin 4	-15V DC supply
Pin 5	V control i/p
Pin 6	-ve O/P Polarity select – to 0V
Pin 7	Current Monitor o/p
Pin 8	+ve O/P Polarity select – to 0V
Pin 9	Signal 0V
Pin 10	Power 0V

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