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- ±8KV 25ms POLARITY REVERSING SPEED
- PRECISION ANALOG VOLTAGE AND CURRENT CONTROLS
- PRECISION ANALOG VOLTAGE AND CURRENT MONITORS
- HIGH STABILITY
- LOW RIPPLE AND NOISE
- HIGH VOLTAGE INHIBIT CONTROL
- Rohs compliant

Spellman's RoHS compliant MX8 *Plus* is a well-regulated high performance fast reversible supply featuring a 25ms "hot switchable" polarity reversing capability.

The MX8 *Plus*'s low ripple specification is typical of the topologies that make Spellman High Voltage your ideal choice for mass spectrometry applications; especially security detection systems, dynodes, sample ionisation as well as capillary electrophoresis and electrostatic printing applications. The MX8 has been designed especially for EI and APCI applications.

The MX8 *Plus* can be easily tailored to an OEM's requirement, such as improved ripple performance, or different voltage and/or current capabilities.

TYPICAL APPLICATIONS

Mass Spectrometry Capillary Electrophoresis Electrostatic Printing

SPECIFICATIONS

Input Voltage:

+24Vdc, ±10%

Input Current:

<0.5A nominal continuous <1.2A peak during reversing

Output Voltage:

0V to ±8kV (see note 1)

Output Current:

100μΑ

Output Polarity:

Bipolar

Voltage Regulation:

Line: <±0.1%% for ±10% input voltage change Load: <0.1% for 0 to full load

Current Regulation:

Line: ±0.1% for +1V input voltage change

for any load condition

Load: ±0.1% for full load to short circuit

Ripple:

<0.1% p-p @ 100µA

Temperature Coefficient:

≤100ppm per degree C

Environmental:

Temperature Range:
Operating: 5°C to 45°C
Storage: -35°C to 85°C
Humidity:
10% to 85%, non-condensing

Stability:

0.05% per hour after 1 hour warm up

Polarity Reversal Time:

<25ms from command to 90% into 100pF load capacitance (see note 2)

Protection:

Arc and short circuit protected

Output Voltage Limit:

Output voltage must not exceed ±8kV ±250V under any input or output conditions

Dimensions:

1.48" H X 3.23" W X 9.45" D (37.6mm X 82mm X 240mm)

Weight:

Approximately 3.3 pounds (1.5kg)

Input Connector:

14 way Molex housing p/n 39-01-2140 or similar with female terminals. Cable length 508mm

Output Connector:

Alden F303D24

Regulatory Approvals:

Compliant to 2004/108/EC, the EMC Directive and 2006/95/EC, the Low Voltage Directive. Compliant to 2002/95/EC, RoHS.

Note 1: Linearity not guaranteed below 200V. Maximum offset ±20V when programmed to zero or disabled using remote enable.

Note 2: Unit incorporates circuitry to minimize the effects of low programmed current on reversing time. Polarity reversal time applies when current is programmed to $3\mu A$ or above.



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MX8 PLUS 14 PIN SOCKET

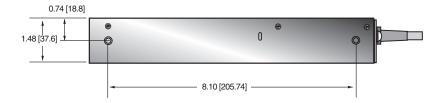
PIN	SIGNAL
1	+24Vdc Input
2	Chassis and 24Vdc Ground
3	Enable/Inhibit Input
4	8kV Voltage Monitor output
5	Voltage Control Input
6	Current Monitor Output
7	Current Control Input
8	Polarity Control Input
9	Analog Ground
10	Current/Voltage Control Indicator
11	N/C
12	N/C
13	N/C
14	N/C

How to Order:

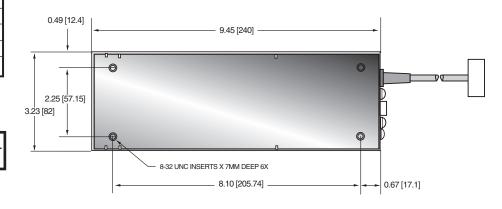
Standard: PART NO.:MXP8PN24

DIMENSIONS: in.[mm]

SIDE VIEW



TOP VIEW



FRONT VIEW







