

- **COMPACT PACKAGE**
- **VOLTAGE AND CURRENT PROGRAMMING FROM ZERO TO RATED OUTPUT**
- **TEST POINTS FOR OUTPUT CURRENT AND VOLTAGE**
- **OVERVOLTAGE PROTECTION**
- **CONTROL OF OUTPUT VIA ENABLE/INHIBIT SIGNAL**
- **OEM CUSTOMIZATION AVAILABLE**

www.spellmanhv.com/manuals/EPM

The EPM Series of power supplies utilize proprietary circuitry which yields full output current from near zero to maximum output voltage. Current regulation is standard on all models and is particularly valuable in applications that require a current source into the load.

TYPICAL APPLICATIONS

- Electrophoresis
- Electron Beam
- Ion Source
- Photomultipliers
- Laboratory Applications

SPECIFICATIONS

Input:

+24Vdc ±10%

Output:

8 models from 1kV to 30kV. Each model is available in positive or negative polarity outputs.

Voltage Regulation:

Load:

Static: 0.02% of output voltage for a full load change.
Dynamic: 10V/100µA.

Line: 0.01% for ±10% change in input voltage.

Current Regulation:

Load: 0.01% of output current from 0 to rated voltage.
Line: 0.01% of rated current over specified input range.

Ripple:

0.1% p-p of output voltage.

Dimensions:

2"H x 5.7"W x 5.7"D (5.1cm x 14.5cm x 14.5cm)

Input Connector:

9 pin AMP Metri-Mate. Mating connector and pins supplied.

Output Cable:

18" ±1" (45.7cm) of UL® listed high voltage wire.

Voltage Stability:

0.02% per 8 hours (after 1/2 hour warm-up).

Voltage Temperature Coefficient:

0.01% per °C.

Voltage Test Point:

10V±2% = Max. rated output.

Current Test Point:

10V±2% = Max. rated output.

Remote Enable:

>3.4V= HV ON.
<1.0V or open= HV OFF.

Regulatory Approvals:

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

EPM SELECTION TABLE

Maximum Rating			Maximum Rating		
kV	mA	Model Number	kV	mA	Model Number
1	30	EPM 1*30	15	2	EPM 15*30
3	10	EPM 3*30	20	1.5	EPM 20*30
5	6	EPM 5*30	25	1.2	EPM 25*30
10	3	EPM 10*30	30	1	EPM 30*30

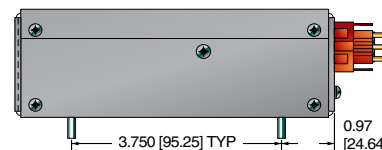
*Specify "P" for positive polarity or "N" for negative polarity.

EPM CONNECTOR 9 PIN

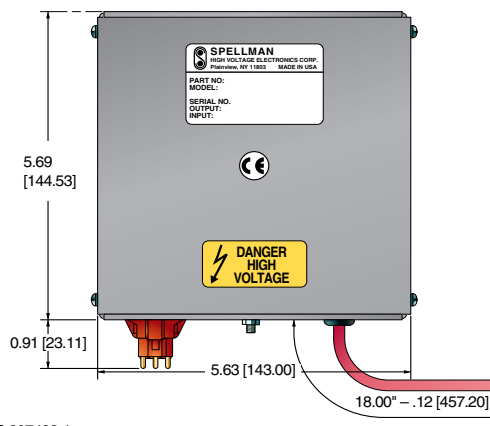
J1	SIGNAL	J1	SIGNAL
1	Ground	6	Voltage Programming
2	+24Vdc	7	Current Programming
3	High Voltage Enable/Inhibit	8	+10Vdc Reference
4	Voltage Test Point	9	Program and Test Point Return
5	Current Test Point		

DIMENSIONS: in.[mm]

SIDE VIEW



TOP VIEW



AMP CONNECTOR 207439-1
WITH MALE PIN 66591-1

FRONT VIEW

