



- **OUTPUT VOLTAGES FROM 1KV TO 60KV**
- **LOW STORED ENERGY**
- **TEST POINTS FOR OUTPUT CURRENT AND VOLTAGE**
- **INHIBIT CONTROL OF OUTPUT VIA TTL SIGNAL**
- **OEM CUSTOMIZATION AVAILABLE**

www.spellmanhv.com/manuals/SMS

Spellman's SMS Series is based on a resonant flyback circuit that provides over 80% efficiency and high pulse current capability. Featuring voltage and current regulation with automatic crossover, The SMS is arc and short circuit protected making it ideal for a variety of applications.

TYPICAL APPLICATIONS

CRT Testing Detector Arrays Electrophoresis
X-ray Analysis Cable Testing

SPECIFICATIONS

Input:

+24Vdc ±10%

Output:

10 models from 1kV to 60kV. Positive or negative polarity outputs.

Voltage Regulation:

Load:

Static: 0.01% of output voltage no load to full load.
Dynamic: 10V/100µA

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

Current Regulation:

Load: 0.1% of output current from 0 to rated voltage.
Line: 0.05% of rated current over specified input range.

Ripple:

0.1% p-p of maximum output voltage.

Dimensions:

3"H x 5"W x 9"D (7.6cm x 12.7cm x 23.0cm).

Input Connector:

12 pin AMP Metri-Mate

Output Cable:

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

Voltage Stability:

0.02% per 8 hours.

Voltage Temperature Coefficient:

0.01% per °C, voltage or current regulated.

Regulatory Approvals:

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

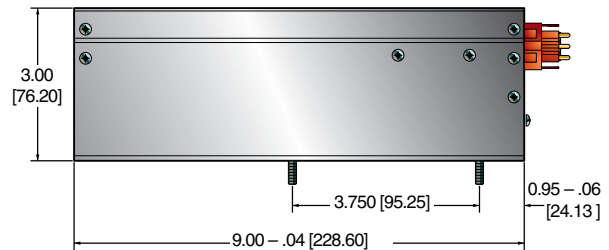
SMS SELECTION TABLE

Maximum Rating kV	mA	Model Number
1	60	SMS 1*60
3	20	SMS 3*60
5	12	SMS 5*60
10	6	SMS 10*60
15	4	SMS 15*60
20	3	SMS 20*60
30	2	SMS 30*60
40	1.5	SMS 40*60
50	1.2	SMS 50*60
60	1.0	SMS 60*60

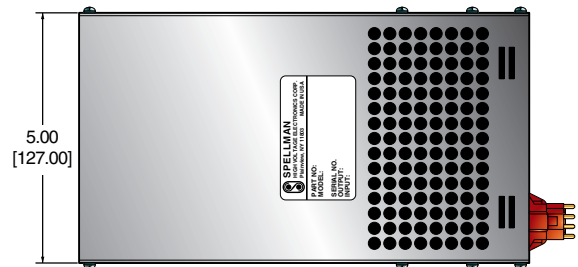
*Specify "P" for positive polarity or "N" for negative polarity.

DIMENSIONS: in.[mm]

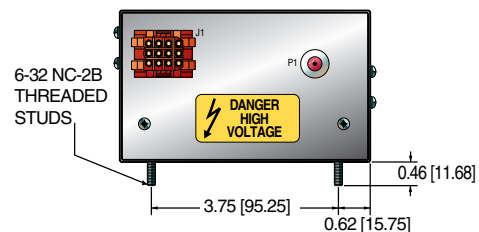
SIDE VIEW



TOP VIEW



BACK VIEW



CONNECTOR 12 PIN

J1	SIGNAL
1	Ground
2	+24Vdc
3	High Voltage Enable/Inhibit
4	Voltage Test Point: 10V±2%=0 to Rated Output
5	Current Test Point: 10V±2%=0 to Rated Output
6	Voltage Programming
7	Current Programming
8	+10Vdc Reference
9	Program and Test Point Return
10-12	Spare



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