SR power supplies are available in 18 models with voltage outputs ranging from 1kV to 120kV. Similar to the SA power supplies, they incorporate series resonant inverter technology with a patented control circuit. This enables the supplies to operate without damage or interruption in rugged environments that frequently pose threats to conventional high voltage power supplies. In addition, the SR Series protects your load from excessive peak currents by instantaneously limiting the output current when an arcover condition is sensed. Parallel operation options to increase power and current capabilities are available for SR models with power outputs of 12kW, 18kW and higher.

**TYPICAL APPLICATIONS**
- Sputtering
- Analytical X-ray
- Electron Beam Systems
- Capacitor Charging
- Radial Modulators

**OPTIONS**
- 200-1P 200Vac Single Phase Input
- 200-3P 200Vac Three Phase Input
- 220-1P 220Vac Single Phase Input
- AOL Adjustable Overload Trip
- FG Floating Ground
- CPC Constant Power Control
- APT Adjustable Power Trip
- RMI Remote Mode Indicators
- ROA Remote Overvoltage Adjust
- NSS No Slow Start
- SS(x) Nonstandard Slow Start
- SL Mounting Slides
- BFP Blank Front Panel
- EFR External Fault Relay

**SPECIFICATIONS**

**Input:**
- 208Vac±10%, 50 or 60Hz, three phase.

**Output:**
- 18 models from 1kV to 120kV. Each model is available with positive, negative or reversible polarity outputs.

**Output Controls:**
- Voltage and current are continuously adjustable over entire range via ten-turn potentiometers with lockable counting dials.

**Voltage Regulation:**
- Load: 0.005% of full voltage ±500mV for full load change.
- Line: ≤0.005% of full voltage ±500mV over specified input range.

**Current Regulation:**
- Load: 0.05% of full current ±100µA for any voltage change.
- Line: ±0.05% of full current over specified input range.

**Ripple:**
- 0.1% p-p ±1Vrms for three phase models only.
- 0.1%rms ±1Vrms for single phase models only.

**Temperature Coefficient:**
- 100ppm/°C. Higher Stability (50ppm/°C) available on special order.

**Stability:**
- 0.01%hr. after 1/2 hour warm-up, 0.02% per 8 hrs. (typical).

**Operating Temperature:**
- 0°C to +40°C

**Storage Temperature:**
- -40°C to +85°C

**Humidity:**
- 10% to 90% RH, non-condensing

**Metering:**
- Digital voltage and current meters, 1% accuracy.

**System Status Display:**
- “Dead Front” type indicators provide status of up to 14 system operations including voltage and current regulation, fault conditions and circuit control.

**Output Cable:**
- 10 ft (3.05m) shielded high voltage cable, removable at rear panel.

**Dimensions:**
- 10¼”(6U)H x 19”W x 19”D rack mount, 1kV to 60kV. (26.7cm x 48.3cm x 48.3cm)
- 10¼”(6U)H x 19”W x 24½”D rack mount, 70kV to 120kV. (26.7cm x 48.3cm x 61.0cm)

**Regulatory Approvals:**
- Compliant to 2004/108/EC, the EMC Directive and 2006/95/EC, the Low Voltage Directive.

For locations worldwide
www.spellmanhv.com/datasheets/STR

To view the new STR data sheet click the following link
www.spellmanhv.com/manuals/SR

Not intended for new designs

- COMPACT DESIGN AND LIGHTWEIGHT
- LOW COST PER WATT
- LOW EMI AND RFI
- CONSTANT VOLTAGE/CONSTANT CURRENT OPERATION WITH AUTOMATIC CROSSOVER
- ARC DETECT, ARC QUENCH AND ARC COUNT
- OEM CUSTOMIZATION AVAILABLE
**SR SELECTION TABLE**

<table>
<thead>
<tr>
<th>MAXIMUM RATING</th>
<th>MODEL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>kV  mA</td>
<td></td>
</tr>
<tr>
<td>1  6000</td>
<td>SR1PN6</td>
</tr>
<tr>
<td>2  3000</td>
<td>SR2PN6</td>
</tr>
<tr>
<td>3  2000</td>
<td>SR3PN6</td>
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<tr>
<td>6  1000</td>
<td>SR6PN6</td>
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<td>8  750</td>
<td>SR8'6</td>
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<td>10 600</td>
<td>SR10'6</td>
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<td>12 500</td>
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<td>15 400</td>
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<td>110 55</td>
<td>SR110'6</td>
</tr>
<tr>
<td>120 50</td>
<td>SR120'6</td>
</tr>
</tbody>
</table>

*Specify “P” for positive, “N” for negative, or “PN” for reversible polarity. Higher voltage or intermediate voltage models available on special order. From 1kV to 6kV, reversible polarity is accomplished by changing a rear panel link. From 6kV to 120kV, polarity is reversed by exchanging internal high voltage assemblies.

**SR TERMINAL BLOCK 18 PIN**

<table>
<thead>
<tr>
<th>TB1 SIGNAL</th>
<th>1 P.S. Common</th>
<th>2 Inhibit</th>
<th>3 External Interlock In</th>
<th>4 External Interlock Out</th>
<th>5 mA Test point Out</th>
<th>6 KV Test point Out</th>
<th>7 +10Vdc Reference</th>
<th>8 mA Program In</th>
<th>9 Local mA Program Out</th>
<th>10 kV Program In</th>
<th>11 Local kV Program Out</th>
<th>12 Remote Pwr On In</th>
<th>13 Remote Pwr On Out</th>
<th>14 Remote HV Off</th>
<th>15 Remote HV Off/On Common</th>
<th>16 Remote HV On</th>
<th>17 HV Off Indicator</th>
<th>18 HV On Indicator</th>
</tr>
</thead>
</table>

*See Specifications for Depth Dimension

DIMENSIONS: in.[mm]

**FRONT VIEW**

**TOP VIEW**

**BACK VIEW**

For locations worldwide

www.spellmanhv.com

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