Spellman’s SL150kV rack mount high voltage power supply is designed for scientific and industrial OEM applications requiring 150kV at 1200 watts in a compact cable connected standard sized rack. Models are available in positive, negative or reversible polarity. The SL150kV is fully arc and short circuit protected. Excellent regulation specifications are provided along with outstanding stability performance. The vacuum encapsulated high voltage output section assures reliable corona free operation by eliminating any concerns due to environmental factors.

**TYPICAL APPLICATIONS**
- Electrostatics
- HiPot Testing
- Semiconductor Processing
- Capacitor Charging

**OPTIONS**
- 200: 200Vac Input Voltage
- AOL: Adjustable Overload Trip
- APT: Adjustable Power Trip
- AT: Arc Trip
- BFP: Blank Front Panel
- CPC: Constant Power Control
- DPM4: 4.5 Digit Panel Meters
- EFR: External Fault Relay
- LL(X): Non-Standard HV Cable Length (10 standard)
- NAD: No Arc Detect
- NSS: No Slow Start
- RFR: Remote Fault Reset
- SS(X): Non-Standard Slow Start (6 seconds standard)

**SPECIFICATIONS**

**Front Panel Controls:**
- Power ON/OFF switch, HV ON Switch, HV OFF Switch with preset feature, 3.5 digit backlight digital meters for display of output voltage and output current, 10 turn locking potentiometers with counting dials for adjustment of both output voltage and output current.

**Front Panel Indicators:**
- HV ON: High Voltage Inhibit
- HV OFF: Over Current
- Voltage Control Mode: Over Voltage
- Current Control Mode: Arc
- Interlock Open: Regulation Error
- Interlock Closed: Overtemperature

**Input:**
- 220Vac ±10%, 50/60Hz @ 12A
- 200Vac ±10%, 50/60Hz @ 13.2A

**Output Voltage:**
- 0 to 150kV

**Output Polarity:**
- Positive, negative or reversible specify at time of order

**Output Current:**
- 8mA

**Output Power:**
- 1200W

**Voltage Regulation:**
- Load: 0.01% of rated voltage for a full load change
- Line: ±0.01% of rated voltage over specified input voltage range

**Current Regulation:**
- Load: 0.01% of rated current ±100μA for full voltage change.
- Line: ±0.01% of rated current over specified input voltage range

**Ripple:**
- 0.1% peak to peak of maximum output

**Temperature Coefficient:**
- 100ppm/°C.

**Stability:**
- 100ppm/hr after a 2 hour warm up, for both voltage and current regulation

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

**Storage Temperature:**
- -40 to +85°C storage
Humidity:  
20% to 85%, non-condensing

Input Line Connector:  
3 conductor 12 AWG 6 ft (1.83m) cable, permanently attached

Output Connector:  
A detachable 10 ft (3.05m) shielded HV cable is provided

Cooling:  
Forced Air

Dimensions:  
8.75”H x 19”W x 22”D rack mount.  
(22.23cm x 48.26cm x 55.88cm)

Weight:  
89 pounds (40.4kg)

Regulatory Approvals:  

Electronic Component (Power Source)  
SL150kV series is intended for installation as a component of a system.  
It is designed to meet CE standards, with conditions of acceptance often being: customer provided enclosure mounting, EMC filtering, and appropriate protection, and isolation devices. The SL150kV series is not intended to be operated by end users as a stand-alone device. The SL150kV series power supply can only be fully assessed when installed within a system, and as a component part within that system.

### SL150KV ANALOG INTERFACE – JB4 25 PIN MALE D CONNECTOR

<table>
<thead>
<tr>
<th>PIN</th>
<th>SIGNAL PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power Supply Common</td>
</tr>
<tr>
<td>2</td>
<td>External Inhibit</td>
</tr>
<tr>
<td>3</td>
<td>External Interlock Return</td>
</tr>
<tr>
<td>4</td>
<td>Voltage Monitor</td>
</tr>
<tr>
<td>5</td>
<td>+10Vdc Reference</td>
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<tr>
<td>6</td>
<td>Remote Current Program Input</td>
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<tr>
<td>7</td>
<td>Local Current Program Output</td>
</tr>
<tr>
<td>8</td>
<td>Remote Voltage Program Input</td>
</tr>
<tr>
<td>9</td>
<td>Local Voltage Program Output</td>
</tr>
<tr>
<td>10</td>
<td>EFR (Common)</td>
</tr>
<tr>
<td>11</td>
<td>EFR (Normally Open)</td>
</tr>
<tr>
<td>12</td>
<td>Local HV OFF OUT</td>
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<tr>
<td>13</td>
<td>HV OFF</td>
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<tr>
<td>14</td>
<td>Remote HV ON</td>
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<tr>
<td>15</td>
<td>Remote HV OFF Indicator</td>
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<tr>
<td>16</td>
<td>Remote Voltage Mode</td>
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<td>17</td>
<td>Remote Current Mode</td>
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<td>18</td>
<td>Remote Power Mode</td>
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<td>19</td>
<td>Power Supply Fault</td>
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<td>20</td>
<td>+15Vdc Output</td>
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<tr>
<td>21</td>
<td>Power Supply Ground</td>
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<tr>
<td>22</td>
<td>Shield Return</td>
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</tbody>
</table>

Specify “P” for positive polarity or “N” for negative polarity, and PN = reversible as illustrated below.

Sample Model Number: SL150P1200/BFP/LL(20)  
Where SL = power supply series, 150 = maximum output voltage in kV,  
P = positive output polarity, 1200 = maximum output power (watts), BFP = Blank Front Panel, LL(20) = 20 foot HV cable.