Portable X-Ray Power Supply

**XRS040N100 • XRS050N200**

### ELECTRICAL RATINGS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>$V_{MAX}$</th>
<th>$I_{MAX}$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kV</td>
<td>µA</td>
</tr>
<tr>
<td>XRS040N100</td>
<td>-40</td>
<td>100</td>
</tr>
<tr>
<td>XRS050N200</td>
<td>-50</td>
<td>200</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

**XRS040N100:**
- Input Voltage: 7-12VDC
- Reverse Polarity Protection: Series Diode
- Max. Output Power: 4 Watts
- Output Voltage Range: -10kVDC to -40kVDC
- Output Current: 0 to 100µA

**XRS050N200:**
- Input Voltage: 9-12VDC
- Reverse Polarity Protection: None
- Max. Output Power: 10 Watts
- Output Voltage Range: -10kVDC to -50kVDC
- Output Current: 0 to 200µA

### Electrical:
- Output Ripple Voltage: < 1% peak to peak
- Load Regulation: 1% for NL to FL change
- Line Regulation: 1% over input range
- Filament Voltage: 2Vrms nominal
- Filament Current: 300mA Max.

### Interface Signals:
- **Output Voltage Control**
  - 0-4V = 0-100%
- **Output Voltage Monitor**
  - 0-4V = 0-100%
- **Output Current Control**
  - 0-4V = 0-100%
- **Output Current Monitor**
  - 0-4V = 0-100%
- **Enable**
  - +5VDC = ON, <1VDC = OFF

### Environmental:
- Storage Temperature: -40°C to +85°C
- Operating Temperature: -10°C to +50°C

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**Features:**
- Voltage & current programming
- Voltage & current monitoring
- Low ripple
- Excellent load & line regulation
- Light weight

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**XRS Series**

The XRS series power supplies provide 4 to 10 watts of output power up to -40kV and -50kV max. The outputs are fully adjustable over the specified operating range. Rugged and light weight, the XRS series brings you the features you need with the proven reliability and quality built into all VMI's products.