Tetrode Electron Gun Power Supply
UHV204-4NS

Applications
◆ High resolution TEM
◆ Nano-Focus X-ray System

◆ Feature
- High stability / Low ripple noise
- High stability temperature characteristics
- SF6 gas insulation: 0.19 Mpa
- Easy operation
- Control from an external PC
- Auto sequence program function
- Slow up/down function
- Over current / Over voltage protection
- RoHS compliant
- Symmetrical CW circuit
- Built-in support for easy installation
# Main Specifications

**Input voltage** 90 V to 240 V AC single phase 5.0 A (50/60 Hz)  *After 90 minutes warm-up*

<table>
<thead>
<tr>
<th></th>
<th>Accelerator</th>
<th>Cathode</th>
<th>Grid 1</th>
<th>Grid 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Voltage</strong></td>
<td>Referenced to GND</td>
<td>Referenced to ACC</td>
<td>Referenced to ACC</td>
<td>Referenced to ACC</td>
</tr>
<tr>
<td></td>
<td>-1kV to -200kV</td>
<td>0 to 5V</td>
<td>-0.03kV to -1kV</td>
<td>+0.4kV to +8kV</td>
</tr>
<tr>
<td><strong>Voltage absolute accuracy</strong></td>
<td>&lt; 0.1%</td>
<td>&lt; 1.0% @500V</td>
<td>&lt; 0.1%</td>
<td></td>
</tr>
<tr>
<td><strong>Setting accuracy</strong></td>
<td>20bit (0.2V LSB)</td>
<td>16bit (1mA LSB)</td>
<td>16bit (0.1V LSB)</td>
<td>16bit (0.13V LSB)</td>
</tr>
<tr>
<td><strong>Output current</strong></td>
<td>1mA max</td>
<td>0~3.5A(17.5W max) Constant current</td>
<td>150μA max</td>
<td>1mA max</td>
</tr>
<tr>
<td><strong>Ripple noise</strong></td>
<td>&lt; 2Vp-p@200kV</td>
<td>&lt; 5mA p-p @3A</td>
<td>&lt; 20mVp-p</td>
<td>&lt; 50mVp-p @5.0kV</td>
</tr>
<tr>
<td><strong>Absolute accuracy</strong></td>
<td>±0.01A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stability</strong></td>
<td>25ppm/1hr@200kV*</td>
<td>25ppm/1hr @ 3.0A*</td>
<td>25ppm/1hr *</td>
<td>25ppm/1hr *</td>
</tr>
<tr>
<td><strong>Temperature coefficient</strong></td>
<td>10ppm/°C</td>
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<td>10ppm/°C</td>
<td>10ppm/°C</td>
</tr>
</tbody>
</table>

**Option**: High voltage connection and assembly  ※ Can be customized

- **Connect receptacle and plug**
- **High voltage receptacle**
- **High voltage plug and cable**

**Control method**
- Panel operation
- Remote control: Optically isolated RS-232C

**Environmental and dimensions**
- Storage temperature range: -5°C ~ +40°C
- Operating temperature: +10°C ~ +40°C
- Humidity: 80% 以下
- Dimensions: 1000mm(W) × 1000mm(D) × 1500mm(H)
- Weight: 800kg

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Specifications are subject to change without notice