200W Single Output Switching Power Supply

**Mechanical Specification**

- Case No.: 106
- Unit: mm

**Block Diagram**

- **Input**: 220V
- **Rectifiers & Filter**: Voltage conversion
- **Power Switching**: Control of power flow
- **Rectifiers & Filter**: Voltage conversion
- **O.C.F.**: Over Current Protection
- **D.V.R.**: Direct Voltage Regulator
- **PAM CONTROL**: Pulse Amplitude Modulation control

**Derating Curve**

- **Static Characteristics (24V)**

**Specifications**

### Specifications Table

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Voltage</th>
<th>Rated Current (A)</th>
<th>Current Range (mA)</th>
<th>Voltage Tolerance (%)</th>
<th>Ripple + Noise (mVp-p)</th>
<th>Voltage Adj. Range (V)</th>
<th>Max. Load (W)</th>
<th>Max. Load (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-200-5</td>
<td>5V</td>
<td>4.2A</td>
<td>4.0-4.6A</td>
<td>0.5%</td>
<td>10mV p-p</td>
<td>4.5 - 5.5V</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>S-200-7.5</td>
<td>7.5V</td>
<td>5.2A</td>
<td>4.8-5.4A</td>
<td>0.7%</td>
<td>10mV p-p</td>
<td>7.0 - 8.5V</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>S-200-9</td>
<td>9V</td>
<td>6.0A</td>
<td>5.6-6.3A</td>
<td>0.5%</td>
<td>10mV p-p</td>
<td>9.0 - 10.5V</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>S-200-12</td>
<td>12V</td>
<td>8.0A</td>
<td>7.8-8.5A</td>
<td>0.5%</td>
<td>10mV p-p</td>
<td>12.0 - 13.8V</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>S-200-15</td>
<td>15V</td>
<td>10.0A</td>
<td>9.8-10.6A</td>
<td>0.5%</td>
<td>10mV p-p</td>
<td>15.0 - 16.5V</td>
<td>100%</td>
<td>50%</td>
</tr>
<tr>
<td>S-200-24</td>
<td>24V</td>
<td>16.5A</td>
<td>16.0-17.4A</td>
<td>0.5%</td>
<td>10mV p-p</td>
<td>24.0 - 28.0V</td>
<td>100%</td>
<td>60%</td>
</tr>
<tr>
<td>S-200-27</td>
<td>27V</td>
<td>19.5A</td>
<td>19.0-20.5A</td>
<td>0.5%</td>
<td>10mV p-p</td>
<td>27.0 - 32.0V</td>
<td>100%</td>
<td>60%</td>
</tr>
<tr>
<td>S-200-48</td>
<td>48V</td>
<td>30.0A</td>
<td>29.0-32.0A</td>
<td>0.5%</td>
<td>10mV p-p</td>
<td>48.0 - 54.0V</td>
<td>100%</td>
<td>60%</td>
</tr>
</tbody>
</table>

**Features**

- AC input range selectable by switch
- Protection: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 77KHz

**Protection**

- Overload (Typ.)
- Over Voltage (Typ.)
- Working Temp. (-10 ~ +60°C)
- Environment
  - Storage Temp. / Humidity: -20 ~ +85°C / 95% RH
  - Transport / Handling
  - Vibration: 0.25G (0 - 200Hz)

**Note**

1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 200MHz bandwidth by using a 12-bit 100MS/s digitizer with a 50µF 470µA capacitor.
3. Tolerance: ±10%, ±20% for all models.
4. The size of the power supply may be slightly different from the above specification table.