The Models CM 340 and CM 440 magnetron power supplies are compact, air-cooled power supplies designed to drive magnetrons having a maximum power of 1.0 and 1.2 kW respectively.

The CM 340 is able to power and control most magnetron models within the nominal range of 900 W to 1 kW at 2.45 GHz while the CM 440 power supply provides the same performance for magnetrons with a nominal maximum power of 1.2 kW at 2.45 GHz.

The compact and innovative design of these units make them highly competitive alternatives to traditional, transformer based, power supplies. The output power can be adjusted from near zero up to 100% using an external analog signal.

The CM 440 is designed to power the MKS, Alter Products TMx12 or TI012 microwave magnetron heads, while the smaller CM 340 power supply is suitable for TMx09. However, both models may be used to power electrically compatible microwave magnetron heads from other manufacturers.

The CM 340 and CM 440 independently monitor and control the operating status of the magnetron, providing power to drive the correct pre-heating of the filament and switching off the output in the event of an alarm condition such as over current or over voltage of the magnetron.

Industry standard electrical terminal blocks with separate terminals for all electrical functions provide simple and easy set up. The high voltage output, carrying the anodic current, is available with an HV connector or, upon request, with a preassembled HV wire.

The CM 340 and CM 440 are enclosed in a lightweight and compact aluminum housing designed to be easily mounted inside an electrical enclosure. External interlock contacts are provided to allow for the use of industry standard internal safety lockout procedures typical of systems housing high powered supplies.

**Features & Benefits**

- Compact and lightweight form factor makes it ideal for installations where the space saving is critical
- High efficiency power supply design requiring only air cooling simplifies installation and reduces cost
- Medium output ripple makes it suitable for industrial heating applications
- System designed for easy assembly inside an electrical enclosure, with access to the terminal block on the bottom of the unit and output on the top
## Specifications and Ordering Information

<table>
<thead>
<tr>
<th>Model Type</th>
<th>CM340</th>
<th>CM440</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Power</strong></td>
<td>1450 W</td>
<td>1700 W</td>
</tr>
<tr>
<td><strong>Input Voltage (nominal)</strong></td>
<td>230 VAC</td>
<td>230 VAC</td>
</tr>
<tr>
<td><strong>Input Voltage Range</strong></td>
<td>190 to 265 VAC</td>
<td>190 to 265 VAC</td>
</tr>
<tr>
<td><strong>Line Frequency</strong></td>
<td>50/60 Hz</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td><strong>Output Current</strong></td>
<td>350 mA</td>
<td>420 mA</td>
</tr>
<tr>
<td><strong>Alarm Management</strong></td>
<td>In the event of an alarm condition, the alarm contact opens, the output power is switched off and the alarm contact is latched. A reset procedure is required to turn the unit back on.</td>
<td>In the event of an alarm condition, the alarm contact opens, the output power is switched off and the alarm contact is latched. A reset procedure is required to turn the unit back on.</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>CM340</th>
<th>CM440</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width</strong></td>
<td>180 mm (7.1 in.)</td>
<td>180 mm (7.1 in.)</td>
</tr>
<tr>
<td><strong>Height, total (mm)</strong></td>
<td>178 mm (7.1 in.)</td>
<td>178 mm (7.1 in.)</td>
</tr>
<tr>
<td><strong>Length, total (mm)</strong></td>
<td>280 mm (11 in.)</td>
<td>280 mm (11 in.)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>5.6 kg / 12.4 lbs.</td>
<td>5.6 kg / 12.4 lbs.</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Forced air, 80 m³/h</td>
<td>Forced air, 80 m³/h</td>
</tr>
<tr>
<td><strong>Ambient Operating Temperature (max)</strong></td>
<td>40° C / 104° F</td>
<td>40° C / 104° F</td>
</tr>
<tr>
<td><strong>Compliance</strong></td>
<td>CE mark, Directive EMC and LV, through norms EN61010-1, EN61000-6-4, EN61000-6-2</td>
<td>CE mark, Directive EMC and LV, through norms EN61010-1, EN61000-6-4, EN61000-6-2</td>
</tr>
<tr>
<td><strong>Preferred Microwave Magnetron Head</strong></td>
<td>TMx09 (Closed head, waveguide size WR340)</td>
<td>TMx12 (Closed head, waveguide size WR340) TI012 (Integral Head with ISO launcher, waveguide size WR340)</td>
</tr>
<tr>
<td><strong>Other manufacturers electrically compatible heads</strong></td>
<td>Other manufacturers electrically compatible heads</td>
<td>Other manufacturers electrically compatible heads</td>
</tr>
</tbody>
</table>

### Dimensional Drawing

*Note: Unless otherwise specified, dimensions are nominal values in millimeters (inches referenced).*

### Model and Version

- **CM 440F Version 1** for 1200 W magnetron, HV connector
- **CM 340F Version 1** for 1000 W magnetron, HV connector
- **CM 440F Version 0** for 1200 W magnetron, HV preassembled wire (3 m length)
- **CM 340F Version 0** for 1000 W magnetron, HV preassembled wire (3 m length)