CAPACITOR CHARGING POWER SUPPLY

IDEAL FOR CAPACITOR CHARGING
- OUTPUT VOLTAGE - 0 TO 1000V
- OUTPUT POWER - 6W

DESCRIPTION:

The 562 Series are robust DC to DC converters. The power supplies operate over a wide output voltage range and are ideal for laser capacitor charging up to 1kV. An inhibit input is provided. Consult factory for OEM options.

SPECIFICATIONS:

| Input Voltage | +12 to +18VDC (Add -1 to part number.)  
|              | +18 to +32VDC (Add -2 to part number.)  
| Output Voltage | 0 to +1000V, common ground (Add -1.0 to part number.)  
| Current | 30mA into short circuit load  
| Power | 6W (6mA at 1kV), see graph on reverse for operation at reduced voltage.  
| Regulation | 15μF load, 1kV  
| Load | 0.03%, 0 to 100% load  
| Voltage Control | Internal multi-turn, 10kΩ trimpot  
| Efficiency | 75% typical  
| External Output Capacitor | >0.1μF must be connected to avoid damage  
| Inhibit | 2.5 to 24VDC, 10kΩ input impedance  
| Charge Time | 1.25 sec to 1kV  
| Charged Output | 7V via 4.7kΩ when output voltage is correct; Pulses during regulation  
| Temperature | Operate -20° to +70°C  
| Storage | -55° to +85°C  
| Coefficient | -0.008%/°C typical  
| Connections | PCB mount, pins  
| Size | 2.00" x 2.00" x 0.69" 3.5 oz (100 grams)  

Specifications subject to change without notice.

APPLICATIONS:

Capacitor Charger for Solid-State Lasers
**MODEL NUMBER**

<table>
<thead>
<tr>
<th>OUTPUT VOLTAGE</th>
<th>562-1-1.0</th>
<th>562-2-1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to +1000V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>+18 to +32VDC</td>
<td>562-1-1.0</td>
<td></td>
</tr>
<tr>
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**INPUT VOLTAGE**

<p>| | |</p>
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**Typical Part Number:** **562-1-1.0**

- **Input Voltage:** +12 to 18VDC
- **Output Voltage:** 0 to 1kV
- **Voltage Control:** Internal multi-turn, 10kΩ trimpot

**DIMENSIONS ARE IN INCHES**

**PIN # | SIGNAL NAME**

<table>
<thead>
<tr>
<th>PIN #</th>
<th>SIGNAL NAME</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>NOT CONNECTED</td>
</tr>
<tr>
<td>2</td>
<td>HV RETURN</td>
</tr>
<tr>
<td>3</td>
<td>HV OUTPUT</td>
</tr>
<tr>
<td>4</td>
<td>INHIBIT</td>
</tr>
<tr>
<td>5</td>
<td>+V INPUT</td>
</tr>
<tr>
<td>6</td>
<td>+V RETURN</td>
</tr>
<tr>
<td>7</td>
<td>CHARGED</td>
</tr>
</tbody>
</table>

**REDUCTION IN OUTPUT POWER VS. VOLTAGE**

- **PERCENTAGE OF RATED POWER**
  - 100%
  - 90%
  - 80%
  - 70%
  - 60%
  - 50%
  - 40%
  - 30%
  - 20%

- **PERCENTAGE OF MAXIMUM VOLTAGE**
  - 100%
  - 90%
  - 80%
  - 70%
  - 60%
  - 50%
  - 40%
  - 30%
  - 20%