DESCRIPTION:

The Model 575 is a flyback converter designed to efficiently charge energy storage capacitors up to 1000V for solid-state laser applications. The Model 575 is packaged as an OEM PCB layout and provides up to 250W of average output power. Output voltage is set by an external 0 to +5V signal and a CHARGED output indicates regulation is achieved. An INHIBIT input allows the supply to be shut off during flashlamp pulse. The Model 575 may be run as a constant output voltage flyback converter with the addition of an external output capacitor.

SPECIFICATIONS:

Input
Voltage +240 to +340VDC and
Enable +24VDC at 0.2A typical

Output
Voltage Up to +1000V (specify in part number.)
Power 250W at maximum voltage with 300VDC input. See graph on reverse for operation at reduced voltage.
Voltage Control 0 to 5V proportional to full scale HV output.
Efficiency 90% typical

External Output Capacitor >1μF must be connected to avoid damage.

Inhibit 2.5 to 15VDC into 5kΩ
CHARGED and INHIBIT signals are on a common line.

Charged Output +24VDC via 1kΩ output which also inhibits PSU; pulses during regulation.

Cooling Requires air cooling.
50 CFM recommended.

Connectors
Control/HV Out Amp, 350763-4
Mating Amp, 1-480706-0
Power Amp, 350760-4
Mating Amp, 1-480700-0

Size 4.0" x 9.0" x 2.2"
Weight 2.0 lbs.

Specifications subject to change without notice.

APPLICATIONS:

Capacitor Charger for Solid-State Lasers
MODEL NUMBER

OUTPUT VOLTAGE
0 to +1000V

OUTPUT POWER 250W

575-X.X

Typical Part Number: 575-1.0 =

Output Voltage: 0 to 1000V
Output Power: 250W

<table>
<thead>
<tr>
<th>PIN #</th>
<th>SIGNAL NAME</th>
<th>BOARD CONN</th>
<th>MATING CONN</th>
<th>MATE CONTACTS</th>
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<tbody>
<tr>
<td>J1-1</td>
<td>N/C</td>
<td>AMP 350760-4</td>
<td>AMP 1-480700-0</td>
<td>AMP 350706-1</td>
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<tr>
<td>J1-2</td>
<td>300V RTN</td>
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<tr>
<td>J1-3</td>
<td>+300V</td>
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<tr>
<td>J2-1</td>
<td>PROG VOLTAGE</td>
<td>AMP 350763-4</td>
<td>AMP 1-480706-0</td>
<td>AMP 350706-1</td>
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<tr>
<td>J2-2</td>
<td>+5V REF</td>
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<tr>
<td>J2-3</td>
<td>INHIBIT</td>
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<td>J2-9</td>
<td>HV OUT</td>
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