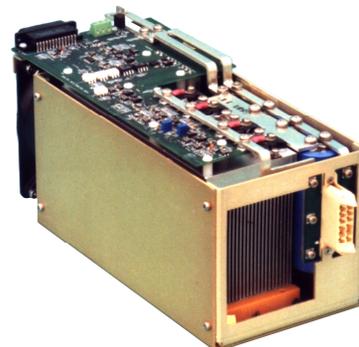




### HIGH POWER OEM LASER DIODE DRIVER

- OUTPUT CURRENT TO 300 AMPS PULSED OR 50 AMPS CW
- IDEAL FOR HIGH POWER LASER DIODES
- DIODE LOAD VOLTAGES UP TO 280VDC
- WIDE PULSEWIDTH TO 10ms
- INTERNAL HEATSINK AND FAN
- FLOATING OUTPUT



### DESCRIPTION:

The **Model 7701A** Laser Diode Driver is designed to power high current laser diodes and arrays for applications such as illumination and diode-pumped solid-state (DPSS) lasers. High power FET technology is employed and a DB-25 interface connector provides for external control of functions such as enable and pulse input, current control and monitor, CW or pulsed mode select and others. The **Model 7701A** provides a floating output, which is capable of driving grounded anode or grounded cathode emitters. The rugged, compact chassis and internal fan and heatsink make the **Model 7701A** an excellent OEM choice for driving high power DPSS lasers.

### SPECIFICATIONS:

<p><b>Input</b> Voltage</p> <p>DC Voltage for Laser Drive (300V Max.), plus 115VAC±10%, 1φ, 50 to 60Hz (Add -C to part number.) 198 to 253VAC, 1φ, 50 to 60Hz (Add -D to part number.)</p> <p><b>Output</b> Current</p> <p>5 to 50A CW or 10 to 100A pulsed (-1) 5 to 50A CW or 10 to 200A pulsed (-2) 5 to 50A CW or 10 to 300A pulsed (-3)</p> <p>Risetime Falltime Pulse Flatness Pulse Overshoot Diode Load Voltage Current Monitor Load Volt. Mon. Diff. Volt. Mon.</p> <p>Protection</p> <p>Temperature</p>	<p><b>Internal Controls</b> Peak Current Limit</p> <p>CW Current Limit</p> <p><b>External Controls</b> Current Control Current Monitor Enable/Pulse I/P Mode Select Crow Bar Activate Input Pulsewidth PRF</p> <p><b>Connections</b> Ext. Controls Output AC Power DC Power</p> <p><b>Size</b> <b>Weight</b></p>	<p>10 to 100A (-1), 200A (-2), or 300A (-3) min., trimpot adj.</p> <p>5 to 50 Amps min., trimpot adj.</p> <p>0 to 10V = 0 to max. current 0 to 10V = 0 to max. current Opto-Isolated input 5V at 10mA</p> <p>+5V to +15V</p> <p>100µs to 10ms typical.; external caps required for high current &amp; wide PW 1Hz to 1kHz</p> <p>25 Pin D-connector Low inductance connector with 1 meter flat conductor output cable Terminal Block via #8 Buss bar holes</p> <p>11.67"L x 5.18"W x 5.94"H 4.53kg</p>
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Specifications subject to change without notice.



### APPLICATIONS:

*CW and Pulsed High Power Laser Diode Current Source*

