HIGH POWER PULSED LASER DIODE CONTROLLER

- MICROPROCESSOR CONTROL
- OUTPUT CURRENT UP TO 300 AMPS PULSED
- DIODE VOLTAGE – UP TO 280 VDC
- VARIABLE PULSEWIDTH 50μs TO 5ms
- MULTIPLE CONFIGURATION STORAGE
- RS232 PORT FOR REMOTE CONTROL

DESCRIPTION:

The **Model 8800D** laser diode controller provides pulsed output current to drive laser diodes for pumping solid-state lasers. An internal microprocessor provides the flexibility and convenience of software control and the system status is presented on an easy-to-read LCD graphics display. The Model 8800D can be configured with one or two power modules for up to 2.8kW of output power. Protection features of the 8800D include an adjustable precision current limit which protects the laser diode from exceeding its maximum rating.

SPECIFICATIONS:

**Input**
- 198-253VAC 1Ø, 50/60Hz

**Output**
- Current: Up to 300A pk
- Risetime: ≤10μs
- Diode Voltage: Up to 280V
- Pulsewidth: <100μs to >5ms (load dependent)
- Pulsed Repetition Frequency: <1Hz to 1kHz
- Protection: Transient suppression, fast reverse polarity diodes and hardware and software limits for peak current, PRF and pulsewidth.

**Status Indicators**
- System status displayed on LCD
- Power On LED
- High Voltage LED

**Size**
- Front Panel: 7.0” x 19.0”
- Chassis: 6.5” x 17.0” x 17.0”
- Weight: 35 lbs.

**Standard Features**
- Microprocessor Control
- RS232 port
- Menu driven interface
- Adjustable delays, Q-Switch trigger
- Low inductance output cable
- Fast reverse polarity output diodes
- Floating output
- Operating Manual

**Optional Accessories**
- Custom Software
- 1.4kW or 2.8kW

Specifications subject to change without notice. Contact our applications staff for detailed information.

APPLICATIONS:

*Solid-State Laser Control where Pulsed Laser Diode Pumping is Required*
### Typical Part Number:

8800D-10-200-300-D =

- **Power Supply:** 2.4kW
- **Compliance Voltage:** 180V
- **Maximum Pulsed Current:** 300A
- **Input Voltage:** 198-253VAC, 1Ø

### Operating Maximums

<table>
<thead>
<tr>
<th></th>
<th>8800D-5</th>
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<th>8800D-10</th>
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</thead>
<tbody>
<tr>
<td>Max. Diode Load</td>
<td>-40</td>
<td>-100</td>
<td>-200</td>
<td>-300</td>
</tr>
<tr>
<td></td>
<td>30V</td>
<td>80V</td>
<td>180V</td>
<td>280V</td>
</tr>
<tr>
<td>Max. Power Pulsed at 100A (Add -100 to part number)</td>
<td>1.0kW</td>
<td>1.4kW</td>
<td>1.4kW</td>
<td>1.4kW</td>
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<tr>
<td>Max. Power Pulsed at 200A (Add -200 to part number)</td>
<td>700W</td>
<td>1.2kW</td>
<td>1.2kW</td>
<td>1.2kW</td>
</tr>
<tr>
<td>Max. Power Pulsed at 300A (Add -300 to part number)</td>
<td>500W</td>
<td>1.2kW</td>
<td>1.2kW</td>
<td>2.4kW</td>
</tr>
</tbody>
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![Diagram](image-url)