



HIGH POWER PULSED LASER DIODE CONTROLLER

- Microprocessor Control
- Output Current – up to 300 Amps Pulsed
- Diode Voltage – up to 280 VDC
- Variable Pulse Width 50 μ s TO 5 ms
- 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 2.8 kW 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 198-253 VAC, 1 $\emptyset$, 50/60 Hz

Output

Current Up to 300 A pk
Risetime $\leq 10 \mu$ s
Diode Voltage Up to 280 V
Pulsewidth $< 100 \mu$ s to > 5 ms (load dependent)
Pulsed Repetition Frequency < 1 Hz to 1 kHz
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
1.2 kW or 2.8 kW

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



MODEL 8800D		
OPERATING MAXIMUMS	8800D-5A-300-300-D	8800D-10A-300-300-D
Max. Diode Load	280 V	280 V
Max. Power Pulsed at 300A	1.2 kW	2.4 kW

Typical Part Number:
 8800D-10A-300-300-D =

Power Supply: 2.4kW
 Compliance Voltage: 280 V
 Maximum Pulsed Current: 300 A
 Input Voltage: 198-253VAC,1Ø

