



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	Size	
Output		Front Panel	7.0" x 19.0"
Current	Up to 300 A pk	Chassis	6.5" x 17.0" x 17.0"
Risetime	$\leq 10 \mu$ s	Weight	35 lbs.
Diode Voltage	Up to 280 V	Standard Features	Microprocessor Control
Pulsewidth	$< 100 \mu$ s to > 5 ms (load dependent)		RS232 port
Pulsed Repetition Frequency	< 1 Hz to 1 kHz		Menu driven interface
Protection	Transient suppression, fast reverse polarity diodes and hardware and software limits for peak current, PRF and pulsewidth.		Adjustable delays, Q-Switch trigger
Status Indicators	System status displayed on LCD	Optional Accessories	Low inductance output cable
	Power On LED		Fast reverse polarity output diodes
	High Voltage LED		Floating output
			Operating Manual
			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

