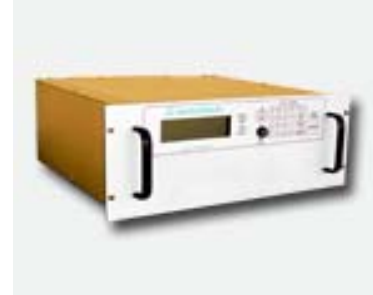




HIGH POWER PULSED LASER DIODE CONTROLLER

- MICROPROCESSOR CONTROL
- OUTPUT CURRENT UP TO 300 AMPS PULSED
- DIODE VOLTAGE – UP TO 280 VDC
- VARIABLE PULSEWIDTH 50 μ s 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 1 ϕ , 50/60Hz	Size	Front Panel 7.0" x 19.0" Chassis 6.5" x 17.0" x 17.0"
Output		Weight	35 lbs.
Current	Up to 300A pk	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
Risetime	$\leq 10\mu$ s	Optional Accessories	Custom Software 1.4kW or 2.8kW
Diode Voltage	Up to 280V		
Pulsewidth	<100 μ s 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		



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-5				8800D-10	
	-40	-100	-200	-300	-200	-300
Max. Diode Load	30V	80V	180V	280V	180V	280V
Max. Power Pulsed at 100A (Add -100 to part number)	1.0kW	1.4kW	1.4kW	1.4kW	2.8kW	2.8kW
Max. Power Pulsed at 200A (Add -200 to part number)	700W	1.2kW	1.2kW	1.2kW	2.4kW	2.4kW
Max. Power Pulsed at 300A (Add -300 to part number)	500W	1.2kW	1.2kW	1.2kW	2.4kW	2.4kW

Typical Part Number: **8800D-10-200-300-D =**

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

