



### HIGH POWER CW LASER DIODE CONTROLLER

- OUTPUT CURRENT UP TO 150 AMPS CW
- DIODE VOLTAGE – UP TO 200VDC
- QUASI-CW OPERATION - <100 $\mu$ s RISETIME
- RS-232 PORT FOR REMOTE CONTROL



### DESCRIPTION:

The **Model 880D** Laser Diode Controller provides CW output currents to drive laser diodes for pumping solid-state lasers. The **Model 880D** can be configured with up to three internal power modules to provide up to 6kW for CW diode loads. Control of the **Model 880D** can be achieved from the front panel or remotely via an RS-232 interface and an external gate input allows for quasi-CW operation.

### SPECIFICATIONS:

<b>Input</b>	208VAC 3 $\phi$ , 50/60Hz input
<b>Output</b>	
Current	0-50A CW per 5705 power module, 150A max.
Rise/Falltime	<100 $\mu$ s (with external pulse input)
Diode Voltage	Up to 200V
Power	Up to 6kW
Ripple Current	0.9A <sub>RMS</sub> at 150A continuous
Leakage Current	75 $\mu$ A at 150A continuous (typical)
Control	On/Off keyswitch Start/Stop push button Output current adjust trimpot RS-232 port Ext. Gate Switch Ext. Gate BNC

<b>Indicators</b>	AC on LED Interlock closed LED Diode on LED Fault LED Selected Current LCD display Current Monitor BNC Synch Pulse BNC
<b>Temperature</b>	0° to 40°C
<b>Connections</b>	
Controls	Interlocks via 15 pin D RS-232 via 9 pin D
Output Power	Low inductance output cable 4-pos terminal block
<b>Size</b>	
Front Panel	7" x 19"
Chassis	6.5" x 17" x 17"
Weight	35 lbs. (14.4 Kgs.)



Specifications subject to change without notice

Contact our applications staff for detailed information

### APPLICATIONS:

*Solid-State Laser Control where CW or Pulsed Laser Diode pumping is required.*

MODEL 880D									
OPERATING MAXIMUMS	880D-1			880D-2			880D-3		
	-40	-100	-200	-40	-100	-200	-40	-100	-200
Max. Diode Load	40V	100V	200V	40V	100V	200V	40V	100V	200V
Max. Current CW	50A	20A	10A	100A	40A	20A	150A	60A	30A
Max. Power CW	2kW	2kW	2kW	4kW	4kW	4kW	6kW	5.5kW	5kW

- 208VAC 3Ø input available, indicate by adding "-D3" to the end of the part number.
- 380VAC 3Ø input available, indicate by adding "-E" to the end of the part number.

**Typical Part Number: 880D-2-100-D3 =** Power Supply: 4kW  
 Compliance Voltage: 100V  
 Maximum Pulsed Current: 40A  
 Input Voltage: 208VAC, 3Ø

