



ANALOG MODULES, INC.

MODEL 880D HIGH POWER LASER DIODE CONTROLLER

HIGH POWER CW LASER DIODE CONTROLLER

- OUTPUT CURRENT UP TO 150 AMPS CW
- DIODE VOLTAGE – UP TO 200VDC
- QUASI-CW OPERATION - <100μs RISETIME
- ACTIVE POWER FACTOR CORRECTION
- 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** includes an active power factor corrected front end and 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:

Input	198-253VAC 1Ø, 50/60Hz
Power Factor	>.98 with 1Ø input
Output	
Current	0-50A CW per 5705 power module, 150A max.
Rise/Falltime	<100μs (with external pulse input)
Diode Voltage	Up to 200V
Power	Up to 6kW
Regulation	
Load	<0.1A 10% to 100% per 5705 module
Line	<0.1A 198VAC to 253VAC
Ripple Current	0.9A _{RMS} at 150A continuous
Leakage Current	75μA 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

Indicators	AC on LED Interlock closed LED Diode on LED Fault LED Selected Current LCD display Current Monitor BNC Synch Pulse BNC
Temperature	0° to 40°C
Connections	
Controls	Interlocks via 15 pin D RS-232 via 9 pin D
Output Power	Low inductance output cable 4-pos terminal block
Size	
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.

