WaveSource Photonics, Inc.

High Current Pump Laser Driver

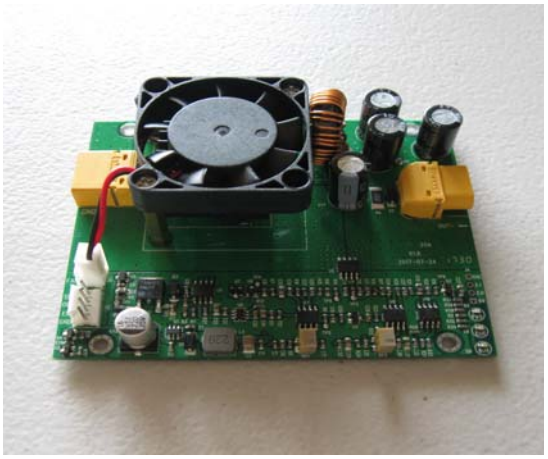
OEM Solutions for High Power Fiber Laser, DPSS laser and Amplifier

Model CL20 high current laser diode driver is designed with features, protection, size, and cost in mind. It employs PWM circuit with power efficiency >90%. It generates very low heat that managed by a build-in low speed, low-noise air-cool fan. It is an ideal constant current source for driving high power diode lasers that used as pump sources in fiber lasers, solid-state pump laser, and high-power amplifiers. The driver circuitry operates from a single 4.5V to 12V power source.

The CL20 is specially designed to set the performance of driven devices at their most suitable parameters for their operations. The constant output current can be set continuously from 1.2 amp to 20 amp, through a fine tune potentiometer. It gives very stable output current that is suitable for use in stringent stability requirement sure custom LD drivers to the specs of your choice.

The high-power driver is cost effective and easily integrated into industrial, research, or

s:



Features:

- Constant-current drive mode
- Drive current up to 20 Amps
- Power supply can be any from 4.5-12V
- Build-in output current monitor
- Extremely stable output current
- 3.5” x 2.125” x 1.25” compact economical OEM module

Applications:

- High power fiber lasers and amplifiers
- Diode pumped Sold state lasers

Technical Data

Parameter	Specification
Current Control	Potentiometers (15 turn)
Control Range of Output Current	1.2 -- 20 (Amp)
Maximum Output Voltage	4.8 (V)
Current Ripple	< 1%
Setting Accuracy (Full Scale)	±2%, Typical ±0.1%
Power Efficiency	> 90%
Supply Voltage	4.5 -- 12 (V)
Dimension	3.5 x 2.125 x 1.25 (inch)
Operating Temperature	0 -- 40 (°C)
Storage Temperature	-20 °C --70 °C (non-condensing)

WaveSource Photonics, Inc, 81 Palm Drive, Union City, California, USA, salesatwsp@gmail.com
www.wsphotonics.com