DDPC LOW COST DIODE DRIVER

The DDPC series laser diode drivers are specifically designed for low cost high volume applications. These DC input modules are available with output power to 300 watts and current output to 70 amps. Built around the same topology that has made Lumina Power laser diode drivers the standard of the industry, these board level products offer the reliability and diode protection of the LDD series in a compact easy to integrate package.

All models require 12, 15 or 24 volts DC and feature a simple analog interface. Output current and voltage can be specified to meet your requirements. An optional protective case and required fan are also available

Lumina Power, INC.

FEATURES

- Output Power to 300 watts
- Output Current to 70 amps
- Input Voltage: 12, 15 or 24VDC
- Compact Reliable Design
- RoHS Compliant
- Analog Interface

APPLICATIONS

- Medical Laser Systems
- Mobile Lasers
- CW or Pulsed Applications

Schulz-Electronic GmbH | Postfach 11 01 18 . D-76487 Baden-Baden . Hausanschrift | Dr.-Rudolf-Eberle-Str. 2 . 76534 Baden-Baden
Fon +49.7223.9636.0 . Fax + 49.7223.9636.90 . vertrieb@schulz-electronic.de . www.schulz-electronic.de

DDPC LOW COST DIODE DRIVER

Models

Model	Output Power	Max. V out.	Input Voltage	Output Current
DDPC-XX-YY-12	100 watts	10 Volts	+12 Volts	≤50 Amps Max.
DDPC-XX-YY-15	100 watts	10 Volts	+15 Volts	≤50 Amps Max.
DDPC-XX-YY-24	300 Watts	16 Volts *	+24 Volts	≤70 Amps Max.

XX= Current, YY = Compliance Voltage, Current x voltage cannot exceed max. rated power

* Higher output voltages on request

Specifications

Chassis/Fan Option

Maximum Output Current: (see table above)

Performance

Current Ripple:	0.25% at maximum output current
Regulation:	0.5% at Maximum output current
Current Overshoot:	< 1% of Maximum output current
Power Limit:	Limited to Maximum power with Fold Back Circuit
Rise/Fall Time:	150usec. typical (faster rise/fall time available)

Interface

Inhibit/Enable:	5V to 15V to enable output
Current Program:	0 to 10V = 0 to full current
Current Monitor:	0 to 10V = 0 to full current
Voltage Monitor:	0 to 10V = 0 to full voltage Note:1

Protection:

Power supply Protection:	Reverse Input voltage, input overvoltage, over temp,
Laser Diode Protections	Strict control of rise/fall times, no overshoot

Dimensions

100watts or less :	2.75 inches X 6.0 inches (board height 1.5")
100 to 300 watts:	2.75 inches X 6.0 inches (board height 2.625")
Operating Temp:	0 to 40°C Note2
Cooling: Note:2	50 amps output or less requires 10CFM
	50 to 70 amps output requires 37CFM

Note 1: If maximum compliance voltage is less than 10V, Vout Monitor will read output voltage directly. If maximum compliance voltage is greater than 10V, then Vout Monitor will be scaled such that 0-10V = 0-Voutmax.

Note 2: Proper cooling is required for reliable operation. Contact Schulz customer service for DDPC Application Notes.

Schulz-Electronic GmbH | Postfach 11 01 18 . D-76487 Baden-Baden . Hausanschrift | Dr.-Rudolf-Eberle-Str. 2 . 76534 Baden-Baden
Fon +49.7223.9636.0 . Fax + 49.7223.9636.90 . vertrieb@schulz-electronic.de . www.schulz-electronic.de