



## PLD12.5KCH Operation Guidelines

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### OVERVIEW

The PLD12.5K-CH Laser Diode driver drives up to 12.5 A of output current. The maximum ambient temperature for safe operation is 35°C. The device still has a maximum internal power dissipation of 40 W.

Because it is easy to accidentally overpower the device at 12.5 A, our technical support team will work directly with you in designing your integration.

They have access to Safe Operating Area (SOA) Calculators and design calculators.

Contact Technical Support Engineers at either:

phone: (406) 587-4910

email: [sales@teamWavelength.com](mailto:sales@teamWavelength.com)

### OPERATION NOTES

The transfer function of the PLD12.5KCH Analog Input is 5 A / V (compared to 2.3 A / V for the PLD10KCH 10 Amp unit).

The jumper between +5V and LD Anode is removed from the unit. Operate the PLD12.5KCH with separate supplies only. See High Compliance Voltage wiring instructions in the PLD10K-CH datasheet for details.

### DATA TO PREPARE BEFORE CALLING

To quickly assist you in your design, please collect this data before calling:

- Laser Diode you'll be using - specifically the forward current you'll operate at and the forward voltage drop at that current.
- Power Supply voltage you'll be using
- Ambient temperature - will this operate in a lab at 25°C or inside an enclosure at 35°C? Power dissipation derates with temperature, so this is a critical parameter.
- Modulation structure: Will you run CW or at lower duty cycle?

### ORDERING INFORMATION

**PLD10K-CH with Product Variation PV019** is a 12.5 A Chassis Mount Laser Diode Driver

### REVISION HISTORY

REV	DATE	NOTES
A	22-Mar-10	Initial Release