

# DIRECT DIODE SOURCES

*Lasertel's line of direct diode sources pairs our industry leading high power laser diode arrays with advanced beam shaping optics and low divergence. As a vertically integrated manufacturer of chips, optics and packages, these highly customizable products allow for limitless power options, beam size and beam shapes for a wide variety of applications.*

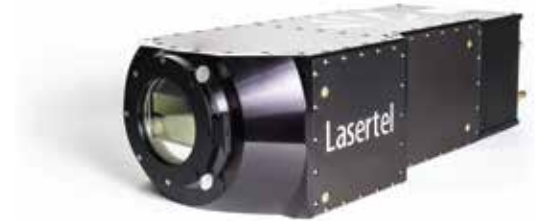


## KEY FEATURES:

- 760nm to 1700nm
- Hermetically sealed, epoxy-free output window
- Custom beam shapes & sizes
- Options for integrated red aiming beam, power monitor, temperature sensor
- Options for internal polarizer, homogenizer

## TYPICAL APPLICATIONS:

- Illumination
- Pointing



## KEY FEATURES:

- 8kW CW output power
- User selectable line geometry  
Intuitive user interface
- Interchangeable protective window
- Integrated pilot beam for positioning and beam size
- Turn-key solution

## TYPICAL APPLICATIONS:

- Cladding
- Annealing
- Welding
- Surface Treatment



Lasertel products proudly made in the USA  
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# YOUR LASER STARTS HERE

## Customizable Packages

Lasertel laser diodes are manufactured in our US-based ISO 9001:2015, ISO 13485:2016 and AS9100C certified facility.



## TYPICAL SPECIFICATIONS:

### 760nm - 1100nm

TYPICAL OPTICAL PARAMETERS (@25 °C)	Units	Typical Value	
Output Power	W	1 to 12	100 to 10,000
Electrical to Optical Efficiency	%	>50	
Beam Shape		Gaussian	Line, Rectangle
Aspect Ratio		1:1 to 3:1	1:1 to 2000:1
Divergence	mrad	as low as 0.5	as low as 10
Power Uniformity	%p-v	<10	
Power Distribution		Top Hat or Gaussian	

### 1400nm - 1700nm

TYPICAL OPTICAL PARAMETERS (@25 °C)	Units	Typical Value	
Output Power	W	0.5 to 3	10 to 3,000
Electrical to Optical Efficiency	%	>20	
Beam Shape		Gaussian	Line, Rectangle
Aspect Ratio		1:1 to 3:1	1:1 to 2000:1
Spot Size	mrad	as low as 0.5	as low as 10
Power Uniformity	%p-v	<10	
Power Distribution		Top Hat or Gaussian	

Patent Numbers: US 7,660,335 | US 7,864,825 | US 6,352,873 | US 6,295,307

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