

The LDD series laser diode drivers deliver high current and compliance voltage in a compact design, offering cost-effective and ultra-efficient performance for a variety of applications

## Key features

- ✓ Up to 16 A output current
- ✓ High compliance voltage up to 100 V
- ✓ Up to 94% efficiency
- ✓ Constant current and power modes
- ✓ Adjustable current limit
- ✓ Enable control
- ✓ External arbitrary waveform modulation
- ✓ Short rise and fall time
- ✓ Reverse current protection
- ✓ Compact footprint for OEM integration

## Applications

- ✓ Fiber laser pumping
- ✓ Solid state laser pumping
- ✓ Direct diode lasers
- ✓ Pyrotechnic ignition
- ✓ Laser diode test setups
- ✓ Materials processing

## Additional compliance options

The LDD series also includes other models, starting with a 30 V compliance voltage and 10 A current version.

## Customization

Custom laser drivers according to your needs is possible. For more information, check our services on our website.

## Ordering information

For orders and to learn more about ephotonics diode drivers, visit our website or contact us at [contact@ephotonics.com](mailto:contact@ephotonics.com)



Electrical specifications	LDD16100
Diode current	0-16 A
Diode voltage (Max)	100 V
Supply voltage	11-36 V
Output power	1600 W
Maximum power dissipation	45 W
Power efficiency	≥ 94%
Modulation frequency	50 kHz (Max)
Rise time	2 μs
Fall time	2.5 μs
Diode current setpoint	0-5 V
Long-term current stability	< 250 ppm
Enabler input	TTL
Current limit	Yes
Constant current/power option	Yes
Current resolution	0.1 A

General specifications	LDD16100
Operating temperature	0 - 55 °C
Storage temperature	-40 - 85 °C
Dimensions	57x60x22 mm
Weight	140 g