

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



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	74x63x26 mm
Weight	140 g