

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 10 A output current
- ✓ High compliance voltage up to 30 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

### Higher compliance available

The LDD series includes other models with a compliance voltage up to 100 V and current up to 16 A.

### 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     | LDD1030      |
|-------------------------------|--------------|
| Diode current                 | 0-10 A       |
| Diode voltage (Max)           | 30 V         |
| Supply voltage                | 11-36 V      |
| Output power                  | 300 W        |
| Maximum power dissipation     | 35 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 | LDD1030     |
|------------------------|-------------|
| Operating temperature  | 0 - 55 °C   |
| Storage temperature    | -40 - 85 °C |
| Dimensions             | 74x63x26 mm |
| Weight                 | 140 g       |