



# **ALPHALAS**

## **LASER DIODE DRIVERS TEC CONTROLLERS FIBER-COUPLED LASER DIODES WITH DRIVERS**



A wide range of laser diode drivers and TEC (Peltier) module controllers offered by ALPHALAS GmbH provide laser diode and TEC currents from milliamperes to hundreds amperes in CW and/or pulsed modes. Laboratory, OEM and industrial versions satisfy most demanding requirements and can drive almost any commercial laser diode and TEC module. Custom-specific solutions for pulsed operation with currents over 500 A and pulse durations in the nanosecond and picosecond range are also available.

The laser diode and TEC module drivers have all protective features for reliable and safe operation, including soft start, true current-source operation, overtemperature and undertemperature limits, current limits, temperature sensor fault alarm, laser diode loop check, etc.

Fiber-coupled laser diodes with output power up-to 30 W integrated in the laser drivers provide a compact and efficient air-cooled solution for solid-state laser pumping, material processing and scientific applications.

*See next page for details*



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## LASER DIODE DRIVERS TEC CONTROLLERS FIBER-COUPLED LASER DIODES WITH DRIVERS



LDD1-1T-D

**LDD1-1T-D** Universal laser diode and TEC driver with laser diode current up-to 6 A, TEC current up-to 6 A, built-in frequency generator, variable pulse duration, both CW and pulsed modes, soft start, liquid-crystal display.  
Settings: LD current, LD and TEC current limits, LD voltage, LD temperature, LD temperature limit, repetition rate, pulse duration, modulation depth 0% - 100%.  
External trigger, current monitor, interlock.

**LDD1-1T-OEM** OEM modules 100x100 mm<sup>2</sup>, with or without metal housing, optional LCD display.  
Other specifications as for LDD1-1T-D.



LDD1-1T-OEM



LPS1-2T

**LPS1-2T** Universal laser diode and double TEC driver, microprocessor-controlled, matrix-dot liquid-crystal display, RS-232 serial port.  
Laser diode current options: 2.5 A, 4 A and 6 A,  
TEC current max. 4 A.

**LDD60-T300** Universal laser diode and TEC driver, CW and pulsed mode, built-in frequency generator, variable pulse duration.

Laser diode driver: Power 300 W, 5 V, 60 A

TEC driver: Power 300 W, 24 V, 12 A

Available with 30 W integrated fiber-coupled

laser diode as the Model **LDF-30**.



LDF-30