

19" Rack Enclosure Holds up to 4 TEC or Laser Diode Drivers

(Rubigen / March 2013) Meerstetter Engineering facilitates the stand-alone and specifically the side-by-side operation of their digital laser diode drivers and Peltier controllers. The 19" rack enclosure LTR-1200 is designed to hold up to four LDD- and/or TEC-Family devices, to provide modular power (up to 1440W) and adequate cooling, and to offer extensive communication options. Configured to customer's requirements, the LTR-1200 is a versatile platform for integrated turnkey solutions.

The LTR-1200 is addressed and controlled over its front panel HMI (human machine interface) that acts as a gateway to the built-in devices. In addition to the standard serial connections (USB, RS485) and digital I/Os, it offers Ethernet and RS232 connectivity. All data interfaces are galvanically isolated. Multicolor LEDs and a 2x40 LCD display inform the user about the principal parameters and states of the built-in devices and of the overall system. Comprehensive, individual device configuration remains fully accessible via the corresponding LDD and TEC Service Software applications, basic settings such as laser current/power or target temperature are also adjustable over the HMI 5-way navigation switch for true stand-alone operation.

Meerstetter Engineering promises to take away the hassle of embedding their OEM drivers into testing and laboratory environments by providing customer-specific turnkey solutions. The new rack enclosures have modular power supply options that depend on the number and types of built-in devices, and on their mode of operation. (Some applications may require low voltage/low power precision control, whereas others take full advantage of the remarkable high power density.) Cooling options are scalable, too, with intelligent fan speed control that comes as standard. The back panel is customizable and offers power terminals as well as sensor connectivity for temperature or/and photocurrent acquisition.

The 19" rack enclosure LTR-1200 is fully compatible with the current lineup of Meerstetter digital LDD-Family laser diode drivers (LDD-1121, LDD-1124, LDD-1125, LDD-1127) and advanced TEC-Family thermoelectric cooling controllers (single channel TEC-1089, TEC-1090; dual channel TEC1122, TEC-1123). The installation of third party devices, *e.g.* of a fiber-coupled diode laser, is possible, if dimensional and power requirements are met. Please contact Meerstetter Engineering with your enquiry.

Meerstetter Engineering is a family-owned electronics engineering company, developing and manufacturing power electronics, high-voltage technology and embedded systems. With laser-electronics as its specialty, Meerstetter Engineering also consults clients. *e.g.* to help them finding a custom laser solution.

Contact:
Meerstetter Engineering GmbH
3113 Rubigen, Switzerland
www.meerstetter.ch