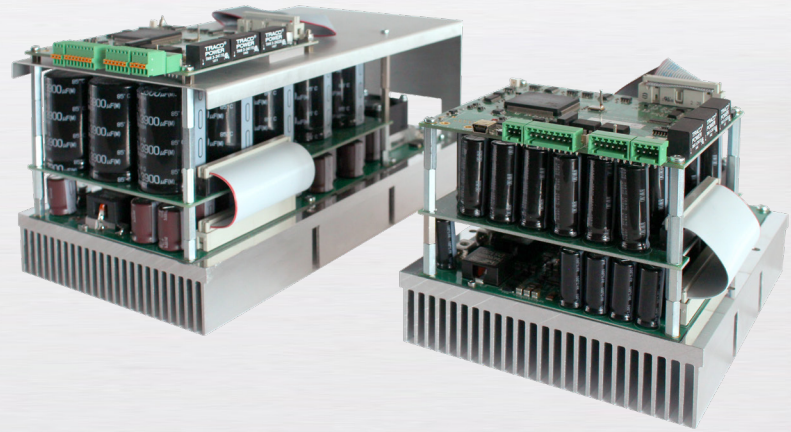


# High Power Laser Diode Driver

- . 300 A pulsed output current
- . 50 to 1000  $\mu$ s pulse width
- .  $\geq$  80% efficiency
- . Protective features
- . Auto adjust of output voltage



The LDD is an economic QCW laser diode driver module designed to provide high current pulses to drive 3m.i.k.r.o.n.<sup>TM</sup> modules in various applications. It delivers output currents up to 300 A and pulse widths variable from 50 up to 1000<sup>(1)</sup>  $\mu$ s operation. Up to 1000 W average output power is available with the supplied heatsink and forced air flow. Several safety features are integrated to protect both laser diode and driver.

## Specifications

|                                   | LDD-20300  | LDD-30300                        | LDD-38200         | LDD-120200        |
|-----------------------------------|--|----------------------------------|-------------------|-------------------|
| . Output Voltage (self adaptable) | 2 - 20 V   | 8 - 30 V                         | 10 - 38 V         | 60 - 140 V        |
| . Output Current (max)            | 300 A  | 300 A                            | 200 A             | 200 A             |
| . Rise Time (10 - 90 %)           | $\leq$ 20 $\mu$ s  | $\leq$ 20 $\mu$ s                | $\leq$ 20 $\mu$ s | $\leq$ 20 $\mu$ s |
| . Supply Voltage                  | 24 - 28 V  | 48 V                             | 24 - 28 V         | 48 V              |
| . Maximum Average Output Current  | 25 A   | 25 A                             | 7.5 A             | 7.5 A             |
| . Pulse Width                     | 50 $\mu$ s - 1 ms <sup>(1)</sup>   | 50 $\mu$ s - 1 ms <sup>(1)</sup> | 50 - 500 $\mu$ s  | 50 - 500 $\mu$ s  |
| . Maximum Operating Frequency     | 2 kHz  | 2 kHz                            | 2 kHz             | 2 kHz             |
| . Interfaces                      | Interlock, Current monitor, Trigger in, Trigger out, Laser enable, CAN, RS232, USB, Relay output |                                  |                   |                   |

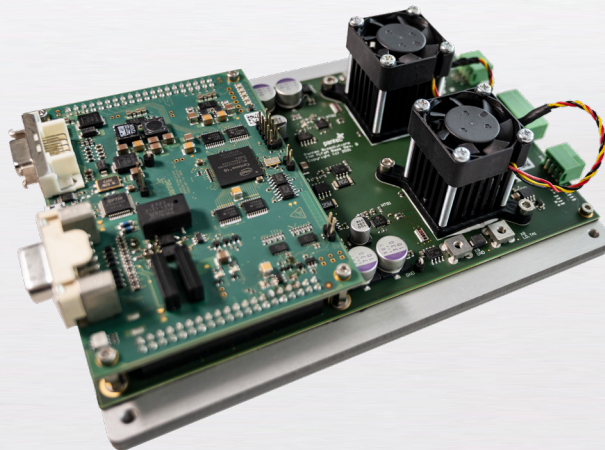
<sup>(1)</sup> 600  $\mu$ s standard, 1 ms on request



# Ultra Compact Tapered Laser Diode Driver

fam<sup>TM</sup>  
Fast Axis Matching

- . 2 x 12.5 A output current (50  $\mu$ s - CW)
- . 4 x 750 mA (CW)



The TLDD is an economic pulsed and CW laser diode driver module designed to provide high current pulses to drive fam<sup>TM</sup> modules in various applications. It delivers output currents of 2 x 12.5 A and 4 x 750 mA and pulse widths variable from 50  $\mu$ s to CW operation. Several safety features are integrated to protect both laser diode and driver.

## Specifications

|                                   |   |
|-----------------------------------|---|
| . Output Voltage (self adaptable) | 1 - 3 V   |
| . Output Current (max)            | 2 x 12.5 A (50 $\mu$ s - CW) and 4 x 750 mA (CW)                                  |
| . Rise Time (10 - 90 %)           | $\leq$ 50 $\mu$ s   |
| . Pulse Width                     | 50 $\mu$ s - CW   |
| . Maximum Operating Frequency     | 50 kHz  |
| . Supply Voltage                  | 12 V  |
| . Supply Power (max)              | 100 W   |
| . Cooling                         | Forced air  |
| . Interfaces                      | Interlock, Current monitor, Trigger in, Trigger out, Laser enable, UART, USB, Fan |

