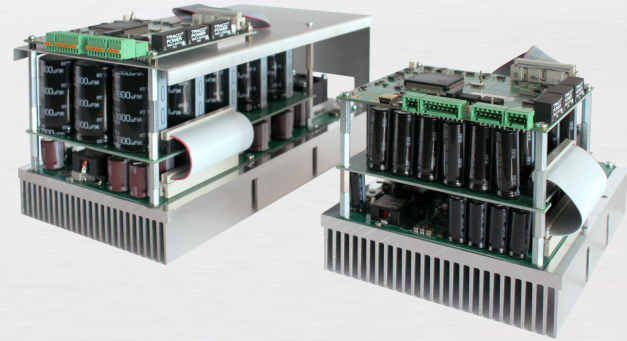


# High Power Laser Diode Driver

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



## Specifications

	LDD-20300	LDD-30300	LDD-38200	LDD-140300
Electrical Parameters				
• 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	300 A
• Supply Voltage	24 - 28 V	48 V	24 - 28 V	48 V
• Input Power (max)	720 W	1200 W	720 W	1200 W
• Rise Time (10 - 90 %)	$\leq$ 20 $\mu$ s	$\leq$ 20 $\mu$ s	$\leq$ 20 $\mu$ s	$\leq$ 20 $\mu$ s
• 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
• Mechanical Dimensions (WxDxH)	(195 x 140 x 110) mm <sup>3</sup>	(195 x 140 x 110) mm <sup>3</sup>	(195 x 140 x 110) mm <sup>3</sup>	(265 x 150 x 210) mm <sup>3</sup>
• Weight	1.9 kg	1.9 kg	1.9 kg	5.9 kg
• 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

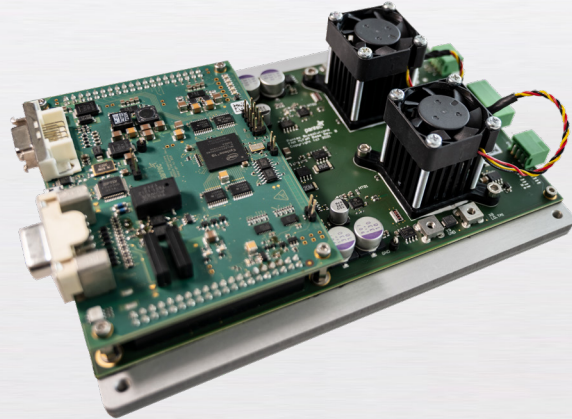
The LDD is an economic QCW laser diode driver module designed to provide high current pulses to drive 2m.i.k.r.o.n.<sup>TM</sup> and 3m.i.k.r.o.n.<sup>TM</sup> modules in various applications. It delivers output currents up to 300 A and pulse widths variable from 50  $\mu$ s up to 1000  $\mu$ s operation<sup>(1)</sup>. Several safety features are integrated to protect both laser diode and driver.



# Ultra Compact Tapered Laser Diode Driver

single frequency  
Tapered Laser Diodes

- 2 x 12.5 A output current (50  $\mu$ s - CW)
- 4 x 750 mA (CW)
- > 80% efficiency
- Protective features
- Auto adjust of output voltage



## Specifications

### LDD-0312-CW

#### Electrical Parameters

• 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)
• Supply Voltage	12 V
• Input Power (max)	100 W
• Rise Time (10 - 90 %)	$\leq$ 50 $\mu$ s
• Pulse Width	50 $\mu$ s - CW
• Maximum Operating Frequency	50 kHz
• Cooling	Forced air
• Mechanical Dimensions (WxDxH)	(180 x 125 x 70) mm <sup>3</sup>
• Weight	0.6 kg
• Interfaces	Interlock, Current monitor, Trigger in, Trigger out, Laser enable, UART, USB, Fan

The TLDD is an economic pulsed and CW laser diode driver module designed to provide high current pulses to drive DLM (VIS/NIR) laser 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.



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301660A-03-DTS driver