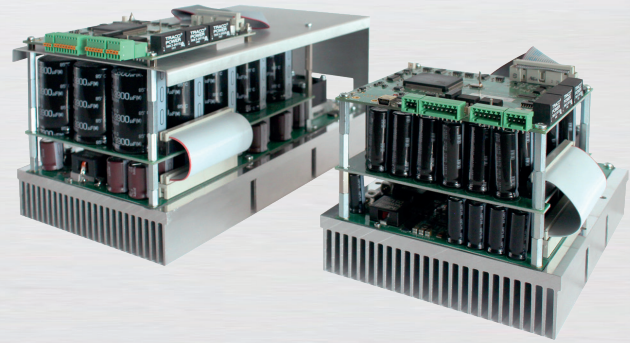


High Power Laser Diode Driver

- 300 A pulsed output current
- (50 - 1000) μ 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 μ s	\leq 20 μ s	\leq 20 μ s	\leq 20 μ s
• Average Output Current (max)	25 A	25 A	7.5 A	7.5 A
• Pulse Width	50 μ s - 1 ms ⁽¹⁾	50 μ s - 1 ms ⁽¹⁾	(50 - 500) μ s	(50 - 500) μ s
• Operating Frequency (max)	2 kHz	2 kHz	2 kHz	2 kHz
• Mechanical Dimensions (W x D x H)	(195 x 140 x 110) mm ³	(195 x 140 x 110) mm ³	(195 x 140 x 110) mm ³	(265 x 150 x 210) mm ³
• 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			

⁽¹⁾ 600 μ s standard, 1 ms on request

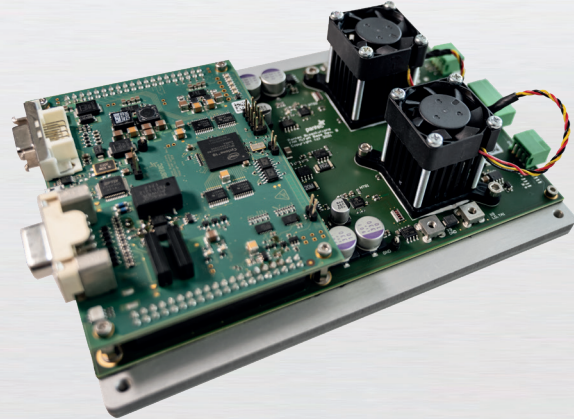
The LDD is an economic QCW laser diode driver module designed to provide high current pulses to drive 2m.i.k.r.o.n.TM and 3m.i.k.r.o.n.TM modules in various applications. It delivers output currents up to 300 A and pulse widths variable from 50 μ s up to 1000 μ s operation⁽¹⁾. Several safety features 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 μ 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 μ s - CW) and 4 x 750 mA (CW)
• Supply Voltage	12 V
• Input Power (max)	100 W
• Rise Time (10 - 90) %	\leq 50 μ s
• Pulse Width	50 μ s - CW
• Operating Frequency (max)	50 kHz
• Cooling	Forced air
• Mechanical Dimensions (W x D x H)	(180 x 125 x 70) mm ³
• 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 μ s to CW operation. Several safety features are integrated to protect both laser diode and driver.



Pantec Biosolutions AG

Industriering 21 · 9491 Ruggell · Liechtenstein

Tel.: +423 377 13 33 · Fax: +423 377 13 34

info@pantec-biosolutions.com www.pantec-biosolutions.com



Illustrations, descriptions and technical data are not binding and may be changed without notice.
Copyright Pantec Biosolutions AG, Ruggell, Liechtenstein, 2023 – All rights reserved.

301660A-03-DTS driver