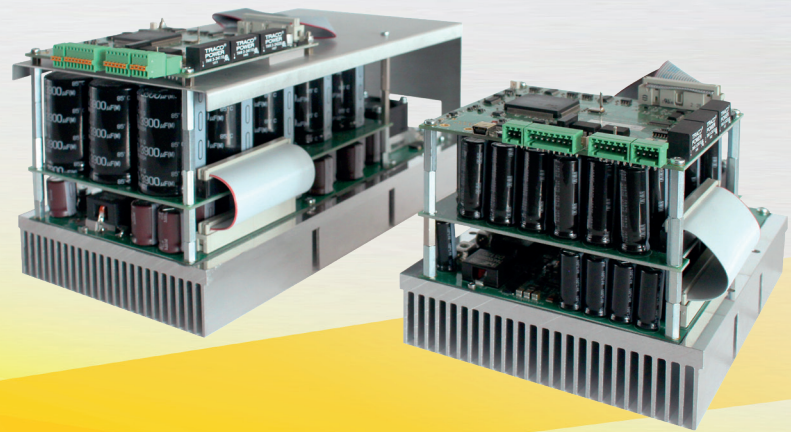


High Power Laser Diode Driver

3m.i.k.r.o.n.TM
Innovative Laser Systems

- . 300 A pulsed output current
- . 50 to 1000 μ 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.TM modules in various applications. It delivers output currents up to 300 A and pulse widths variable from 50 up to 1000* μ 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-36200	LDD-120200
. Output Voltage (self adaptable)	2 - 20 V	8 - 30 V	10 - 36 V	60 - 140 V
. Output Current (max)	300 A	300 A	200 A	200 A
. Rise Time (10 - 90 %)	\leq 20 μ s	\leq 20 μ s	\leq 20 μ s	\leq 20 μ 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 μ s - 1 ms*	50 μ s - 1 ms*	50 - 500 μ s	50 - 500 μ 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			

* 600 μ s standard, 1 ms on request

