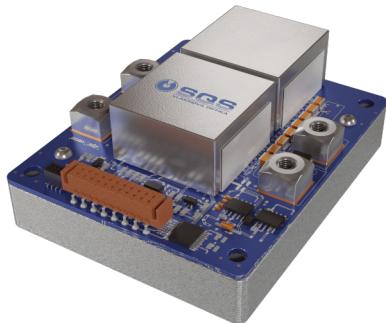




# High Power Laser Diode Driver

High Current or High Voltage Variants, Output Power up to 3 kW



SQS Vláknová optika offers a laser driver for highly demanding industrial, medical and research laser applications in a half-brick size.

The driver enables laser diode power supply in continuous wave (CW), quasi-continuous wave (QCW) or pulsed operation regimes with a high efficiency up to 95%, high current setpoint accuracy, excellent stability, and low ripple current.

The laser diode driver may be computer-controlled by digital or analog signals via free control software with a graphical user interface. The laser driver offers several protection features incl. soft start current ramp to user setpoint, reverse current protection, overheating protection, and safety interlock function.

## Applications

Diode bars, diode stacks, laser welding, laser soldering, medical lasers, LED arrays.

## Features

- Adjustable current limit
- Over-current protection
- Over-voltage protection
- Over-temperature protection
- Safety interlock
- Internal crowbar
- Analog / digital (RS232) control
- Analog status Information
- Digital status and system information
- Compact design (half brick size)

**CML-12-10-100** High Current Variant

### Key specification

Input voltage	12 VDC
Output voltage	0 - 10 VDC
Output current	5 - 100 A
Rise time	< 1 ms
Fall time	< 1 ms
Current setpoint accuracy	±0.5% (5 - 50 A), ±1% (50 - 100 A)

**CML-48-40-80** High Voltage Variant

### Key specification

Input voltage	48 VDC
Output voltage	0 - 40 VDC
Output current	0 - 80 A
Rise time	< 1.5 ms
Fall time	< 1.5 ms
Current setpoint accuracy	±1% (0 - 80 A)

## Laser driver stack - application example



## Features

- Parallel laser driver connection
- Adjustable voltage 0 - 40 V
- Adjustable current 0 - 480 A
- Water cooled design
- Remote control and system information

## Application

- Precise current control

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