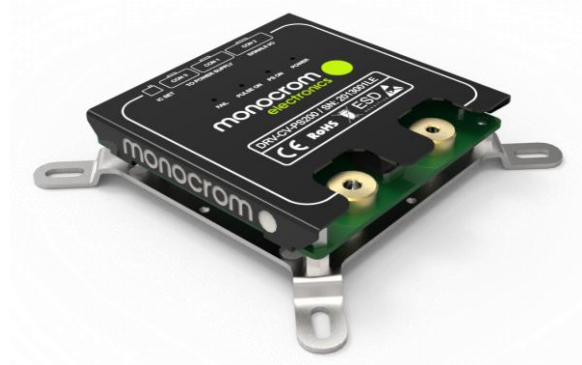


DRV-CV-PS200

Analog Power Supply Control

Converts a standard power supply to a laser diode driver
 Up to 200 A output current⁽¹⁾
 QCW pulsed and CW operation
 External current input signal
 Safety interlocks
 Power supply ON/OFF
 Laser protected against power supply failures.
 Ultra-low power loss: 100 $\mu\Omega$ internal conductor resistance



Technical data

Specifications

Operation mode	CW to pulsed
Output current ⁽¹⁾	<200 A adjustable from 0
Feeding voltage ⁽²⁾	<36 V _{DC}
Feeding current for the internal electronics	No required
Pulse width	0-5 V (digital input)

Signals

Current input signal	0-5 V
Internal current set signal	Optional internal set
Pulse width input signal	0-5 V (digital input)
Rise time	< 2 ms
Fall time	< 2 ms
Frequency range	0-50 Hz
Monitor current signal	10 mV/A

Mechanics

Dimensions	(90 x 90 x 20) mm
Operating ambient temperature range	0-45 °C, non-condensing

- (1) The maximum current will be determined by the Cosel PBA power supply of choice AND the number set in parallel.
 (2) The feeding voltage will be determined by the Cosel PBA power supply of choice.

Description

The DRV-CV-PS200 converts a power supply from PBA series by Cosel to a laser driver. It is designed for laser pulses >5ms.

This configuration is far more compact than a conventional laser diode driver since it eliminates the need for large capacitors, and associated electronics.

This also increases reliability and reduces cost. The DRV-CV-PS200 includes an internal security actuator. This security system will protect the laser diode against a possible power supply failure or a connection error.

Block diagram

