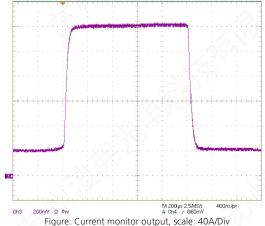


Rev. 1905

LDP-CW 120-40

CW Driver for High Power Laser Diodes





Product Description

The LDP-CW 120-40 is a compact and efficient current supply to drive cw laser diodes. The operating range includes continuous current as well as analog modulation of the output current. If required, a simmer current from 0% to 100% of the output current can be set up easily.

The innovative current regulation concept of the LDP-CW 120-40 produces, compared to the commonly used linear regulation concept, considerably less losses. Hence, only one supply voltage is needed for the control logic and the power stage.

The LDP-CW 120-40 is suitable for a very wide range of applications. Especially several redundant protective features as well as a build in self-test enable the use for medical applications.

Output current: 2 .. 120 A
Simmer current functionality
Compliance voltage: 1 .. 40 V

• Analog modulation up to 4 kHz

• Stackprotector® and other protective features

High efficiency

• Optionally available without enclosure

Technical Data*

Output current	2 120 A
Compliance voltage	1 40 V
Simmer current	0 120 A **
Max. output power	4800 W
Current ripple	< 1 %
Current overshoot	< 1 %
Analog modulation (60 A _n)	< 4 kHz **
Current settling time	< 100 µs
(full-scale)	
Current setting input	0 2.4 V external (50 A/V)
Current monitor	50 A/V **
Voltage monitor	0.1 V/V **
Connectivity	LDP-C BOB
Connectivity	PLB-21
	USB 2.0
Supply voltage	12 48 V DC (at least 3 V
Supply voltage	above compl. voltage)
Power dissipation @ 120 A /	175 W
12 V	1,3 ,
Dimensions in mm	100 x 180 x 69
Weight	1538 g
Operating temperature	0 to +55 °C
Operating temperature	0 10 133 C

^{*} Specifications measured with a fast recovery diode instead of a laser diode. Technical data is subject to change without further notice.

* See manual for details

- Stackprotector[®] cuts the power stage from the supply
- Innovative current regulation concept actively prevents laser diode from overshoots and overcurrent
- A crowbar shorts the output in case of an error
- Integrated Soft Start
- Protection against transients through regulated current rise time
- Overtemperature shutdown
- Enable/Disable input
- Driver status output
- Protection of the laser diode against reverse currents

Optional Accessories: LDP-C BOB PLB-21

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