



LDP-CW 120-20

CW Driver for High Power Laser Diodes



- Output current: 2 .. 120 A
- Simmer current functionality
- Compliance voltage: 1 .. 20 V
- Analog modulation up to 4 kHz
- Optionally housing available
- Stackprotector® and other protective features
- High efficiency

Technical Data*

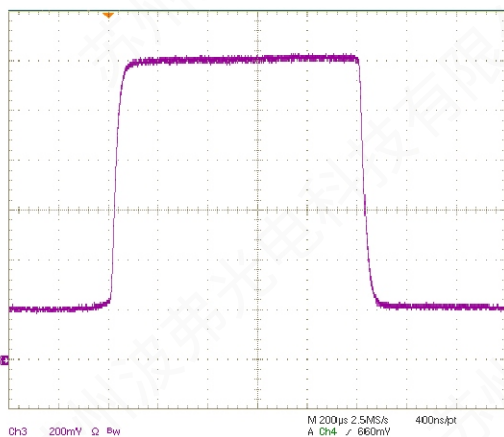


Figure: Current monitor output, scale: 20A/Div

Output current	2 .. 120 A
Compliance voltage	1 .. 20 V
Simmer current	0 .. 120 A **
Max. output power	2400 W
Current ripple	< 1 %
Current overshoot	< 1 %
Analog modulation (60 A _p)	< 4 kHz **
Current settling time (full-scale)	< 100 µs
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 PLB-21 USB 2.0
Supply voltage	4 .. 26 V DC (at least 3 V above compl. Voltage)
Power dissipation @ 120 A / 12 V	150 W
Dimensions in mm	100 x 180 x 69
Weight	1026 g
Operating temperature	0 to +55 °C

Product Description

The LDP-CW 120-20 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 120-20 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 120-20 is suitable for a very wide range of applications. Especially several redundant protective features as well as a build in selftest enable the use for medical applications.

* 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