

LDP-C/CW 80-40 NextGen

Driver for High Power Laser Diodes



FOCUSSING POWER TO THE POINT

Rev.2401

» Output current: 10 .. 80 A

- » Compliance voltage: 1 ... 40 V
- » Analog modulation up to 4 kHz
- » Pulse repetition frequency up to 200 kHz
- » Stackprotector® and other protective features
- » High efficiency

Technica data*

)utput current	1080 A
/lax. compliance voltage	140∨
/lax. output power	3200 W
urrent ripple	< 1 %
urrent overshoot	< 1 %
nalog modulation (100 A _{pp})	< 4 kHz **
ulse repetiton frequency	< 200 kHz
urrent settling time	< 100 µs (using Enable)
full-scale)	< 10 µs (using Trigger)
urrent setting input	0 2.0 V external (50 A/V)
urrent monitor	50 A/V**
oltage monitor	0.1 V/V**
connectivity	LDP-C BOB, PLB-21
	Ethernet***
upply voltage	24 48 V DC (at least 2 V
	above diode laser voltage)
ower dissipation @ 120 A /	175 W abs.max
2 V diode voltage	
Dimensions in mm	180 x 100 x 74 mm
Veight	1510 g
perating temperature	0 to +55° C
Technical data is subject to change without further notice.	

- Specifications measured with a fast recovery diode instead of a laser diode
- See manual for details
- *** Currently not suitable for productive use.

More information:

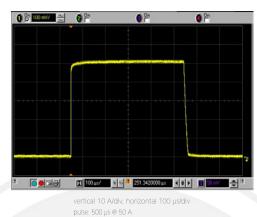
- > Stackprotector [®] cuts the power stage from the supply
- > Innovative current regulation concept actively prevents laser diode from overshoots and overcurrent
- > A crowbar shorts the output in case of an error
- > Integrated soft start
- > Protection against transients through regulated current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

Accessory

> LDP-C BOB > PLB-21

04/25 / V4 / MaH-IF / picolas/Idp-c-cw-80-40-ng-driver





Product description

The LDP-C/CW 80-40 NextGen is a compact and efficient current supply to drive stacked laser diodes. The operating range includes continuous current as well as analog modulation of the output current. The innovative current regulation concept of the LDP-C/CW 80-40 NextGen produces, compared to the commonly used linear regulation concept, considerably less

This and its wide input voltage range makes the LDP-C/CW 80-40 NextGen suitable for a very wide range of applications while several redundant protective features as well as a build in self-test provides safety for usage in medical applications.

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