



LDP-CW 90-10

Rev. 1905

Fully digital controlled cw Driver for High Power Laser Diodes



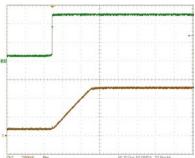


Figure: Soft Start, Current monitor output, scale: 10A/Div

Product Description

The LDP-CW 90-10 is a very affordable, compact and efficient current supply for an output power up to 1 kW.

The capability ranges from continuous output current to analog modulated waveforms like sinusoidal, rectangular or triangular. The modulation is limited usually by the load

Intended fields of application are laser soldering and welding as well as generic surface treatment and show lasers.

The innovative current regulation concept of the LDP-CW 90-10 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 current consumption drawn from the power supply only needs to cover the average laser power and is typically much less than 90 A

- Output current: 3 .. 90 A
- Compliance voltage: 0 .. 10 V
- Output power: 900 W
- Coverage of cw range
- Analog modulation
- Half brick size (35 cm²)
- Several protective features
- High efficiency

Technical Data*

	3 90 A
ltage	0 10 V
	< 1 %
Cy .	> 1 MHz
oot	< 1 %
ition (10	TBD**
j time	TBD**
nt input	Analog or digital
or	TBD**
r	Via RS-232
	24 V DC
ssipation	65 W
	Half brick size
mm	60.9 x 57.8 x 29
	194 g
perature	0 to +55 °C
	Itage cy oot stion (10 g time at input or csipation mm perature

^{**} Specifications measured with a fast recovery diode instead of a laser diode.

Technical data is subject to change without further notice.

** See manual for further details

Designed to shield your laser diode from damage, the LDP-CW 90-10 features a number of powerful protective safeguards:

- Innovative current regulation concept actively prevents laser diode from overshoots and overcurrent
- Integrated Soft Start
- Overtemperature shutdown
- Enable/Disable input
- Driver status output
- Protection of the laser diode against reverse currents

Optional Accessories:

LDP-C BOB

Germany and Other Countries Laser Components Germany GmbH

Tel: +49 8142 2864-0 Fax: +49 8142 2864-11 info@lasercomponents.com www.lasercomponents.com

Laser Components S.A.S. Tel: +33 1 39 59 52 25 Fax: +33 1 39 59 53 50 info@lasercomponents.fr www.lasercomponents.fr

United Kingdom

Laser Components (UK) Ltd. Tel: +44 1245 491 499 Fax: +44 1245 491 801 info@lasercomponents.co.uk www.lasercomponents.co.uk Nordic Countries

Laser Components Nordic AB Tel: +46 31 703 71 73 Fax: +46 31 703 71 01 info@lasercomponents.se www.lasercomponents.se