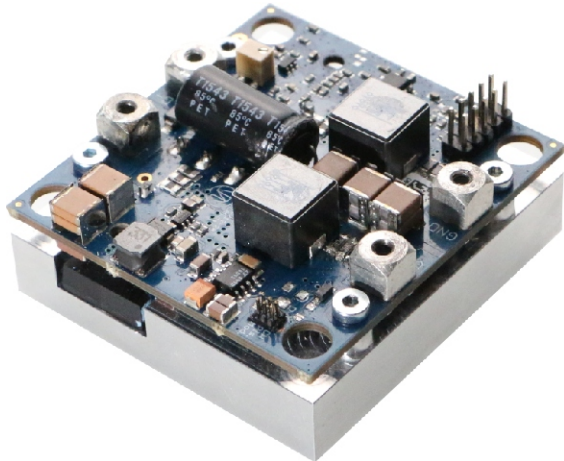


## LDP-CWL 06-20 / LDP-CWL 12-20

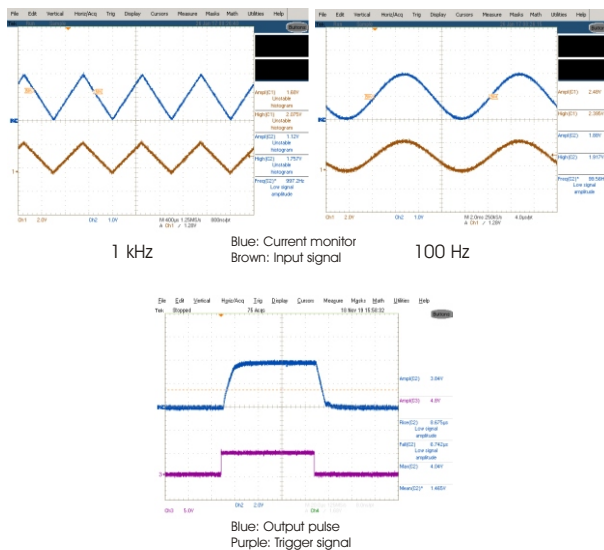
Laser Diode Driver high Performance and low Noise



- Output current: 0 .. 6 A / 0 .. 12 A
- Compliance voltage: 0 .. 20 V
- Coverage of cw range
- Very low current ripple < 20 mA ; < 0.77 %
- Analog modulation up to 230 kHz
- Load protection included
- High efficient combination of switch mode and linear regulator

### Technical Data\*

Output current	0 .. 6 A / 0 .. 12 A
Max. compliance voltage	20 V
Current noise	< 20 mA ; < 0.77 %
Current overshoot	< 1 %
Analog modulation	230 kHz @ 3 A 100 kHz @ 12 A
Current settling time (full-scale)	< 25 $\mu$ s <sup>1</sup> ; < 9 $\mu$ s <sup>2</sup>
Pulse mode	
Current setting input	0 .. 4.8 V; LDP-CWL 12-20: 0.4 V/A LDP-CWL 06-20: 0.8 V/A
Current monitor	0.33 V/A
Trigger	Analog
Supply voltage	15 .. 48 V min. 10 V above compliance voltage
Power dissipation (cw)	
CW mode	Max. typ. 20.4 W
Modulation mode	Max. typ. 65 W
Pulse mode	Max. 108 W
Dimensions in mm	60.9 x 57.8 x 30
Weight	158 g



### Product Description

The LDP-CWL is a fast driver for typical laser diodes. With its high output voltage it is suitable for IR, blue laser diodes and all kinds of LED's. The combination of a switching and linear regulator. Yields a high performance, a high efficiency with excellent low noise behavior. The LDP-CWL has a great linearity characteristic with a low output ripple. Depending on the working point the LDP-CWL generates a low drop-out independent of laser diode load.

\* Specifications measured with a fast recovery diode instead of a laser diode. Technical data is preliminary and subject to change without further notice.  
<sup>1</sup> LDP-CWL 06-20 , <sup>2</sup> LDP-CWL 12-20

- Innovative current regulation concept actively prevents laser diode from overcurrent
- Very low current ripple
- Overtemperature shutdown
- Shunt MOSFET short the output clamps in case of an error
- Protection of the laser diode against reverse currents
- High efficient combination of a switch mode and a linear regulator

Optional Accessories:    LDP-C BOB