

## LDP-QCW 300-12

### QCW-Driver for High Power Laser Diodes



- Output current: 50 .. 300 A
- Compliance voltage: 2 .. 12 V
- Optional housing available
- Stackprotector® and other protective features
- High efficiency
- Compact design

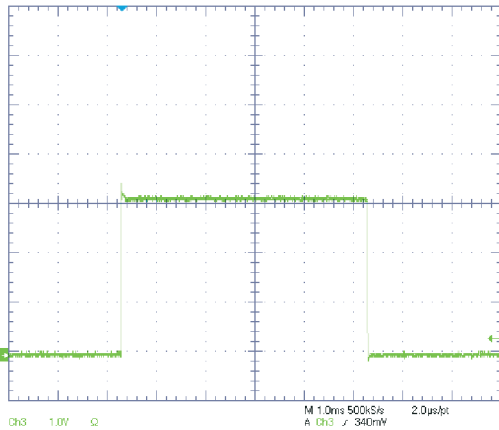


Figure: Current monitor output, scale: 100A/Div

#### Technical Data:\*

Output current	50 .. 300 A
Max. compliance voltage	12 V
Min. pulse duration	< 100 $\mu$ s
Max. pulse duration	5 ms
Max. repetition rate	> 1 kHz**
Max. Duty cycle	10 %**
Max. Risetime	< 10 $\mu$ s
Current overshoot	< 5%
Pulse trigger input	5 V TTL
Current setting input	0 .. 1.5 V external (200 A/V)
Current monitor	200 A/V
Voltage monitor	0.05 V/V
Connectivity	LDP-C BOB PLB-21 USB 2.0
Supply voltage	24 .. 48 V DC**
Max. power dissipation	200 W
Dimensions in mm	100 x 180 x 92
Weight	1.2 kg
Operating temperature	0 to + 55 ° C

\* Specifications measured with a fast recovery diode instead of a laser diode. Technical data is preliminary and subject to change without further notice.  
\*\* See manual for details

#### Product Description:

The LDP-QCW 300-12 is a compact and efficient current supply to drive qcw-laserdiodes. It is designed for very high currents up to 300 A and provides power up to 3600 W. With its compact design the LDP-QCW 300-12 has a very good power-size ratio.

For an easy use of the pulser only one supply voltage is needed for the control logic and the power stage. Also the control is very convenient. In combination with the PLB-21 or via USB, the LDP-QCW 300-12 is capable of generating pulses on its own. No external pulse generator is required and all parameters can be comfortably adjusted.

The LDP-QCW 300-12 is suitable for a wide range of applications. That includes illumination, pumping of solid-state lasers, spot welding and others.

- Stackprotector® cuts the power stage from the supply
- Innovative current control concept actively prevents laser diode from overshoots and over-current
- Protection against transients through adjustable current rise time
- Over-temperature shutdown
- Enable/Disable input
- Pulser status output
- Protection of the laser diode against reverse currents

#### Optional Accessories: LDP-C-BOB PLB-21