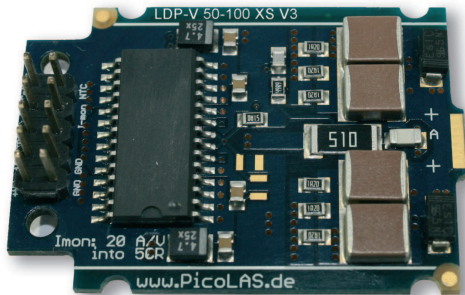


## LDP-V 50-100 XS V3

### Driver Module for Pulsed Lasers



- Compact OEM-module
- 3 to 50 A output
- < 4 ns rise time
- Pulse width control via trigger input (12 ns to >1  $\mu$ s)
- Rep. rates from single shot to 2 MHz
- Current monitor and isolated monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...

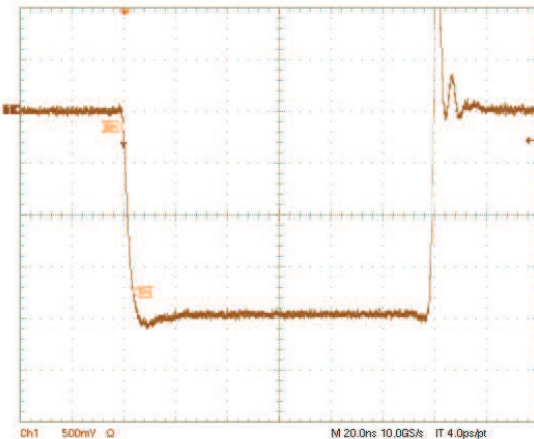


Figure: Current monitor output, scale: -10 A/Div

### Technical Data:\*

Output current	3 .. 50 A
Max. output voltage	100 V
Rise time	typ. 2.3 ns, max. 4 ns
Trigger delay	typ 36 ns, max 40 ns
Min. pulse duration	12 ns
Max. pulse duration (at 8% voltage drop)	> 1 $\mu$ s (@ 50 A)** > 10 $\mu$ s (5 A)**
Trigger range	single-shot to 2 MHz** (refer to diagram with operating limits)
Trigger input (optional)	5 V into 50 $\Omega$ via pinheader
Trigger output	galvanically sep. Rogowski-coil
Current monitor	20 A / V into 50 $\Omega$
Supply voltage	+12 .. 15 V 60 mA and + 5-100 V 30 W
Max. power dissipation	25 W**
Dimensions	44 x 30.5 x 13 mm
Weight	12 g
Operating temperature	-20 to + 55 $^{\circ}$ C

\* Measured into a short instead of laser diode. Technical data is subject to change without further notice.

\*\* See manual for detailed information.

### Product Description:

The LDP-V-Series provides a small and inexpensive source for nanosecond pulses. The device is optimized for pulse-repetition from single-shot up to MHz-repetition with duty-cycles up to 53%\*\*. Its typical application is as a laser diode driver. Those can be mounted directly onto the LDP-V, eliminating the need for strip lines. The diode must be electrically isolated from earth (chassis) ground. Compatible packages: TO-18, TO-5, TO-52, 5.6 mm, 9 mm and similar. Despite its small size, the LDP-V is designed for ease of use. The smallest unit of the LDP-V series is of course pin-compatible to all other modules.

