

## LDP-V 240-100 V3

### Driver Module for Pulsed Lasers

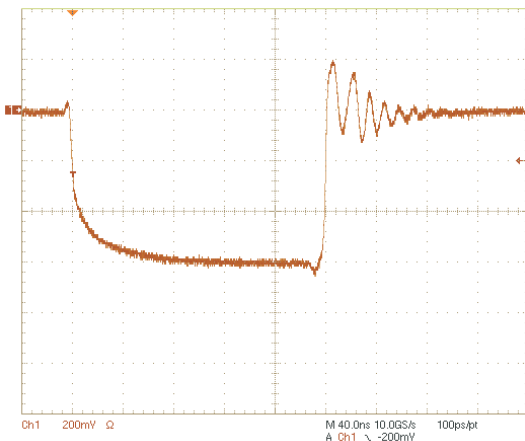
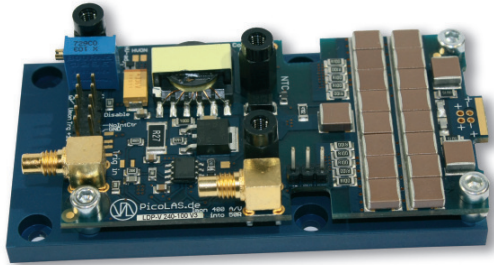


Figure: Current monitor output, scale: -80 A/Div

- Compact OEM-module
- 40 to 240 A output
- 25 ns rise time
- Pulse width control via SMC trigger input (60 ns to >1  $\mu$ s)
- Rep. rates from single shot to 2 Mhz
- Single +15 V supply
- Current monitor and isolated monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...

### Technical Data:\*

Output current	40 .. 240 A
Max. output voltage	100 V,
- int. high voltage:	0 .. 100V, 1 A, 15 W
Rise time	typ. 25 ns, max. 35 ns
Trigger delay	typ. 36 ns, max. 40 ns
Min. pulse duration	60 ns
Max. pulse duration	> 1 $\mu$ s**
Trigger range	single-shot to 2 Mhz** (refer to diagram with operating limits)
Trigger input	5 V into 50 $\Omega$ via SMC-jack
Trigger output	galvanically isolated Rogowski-coil
Current monitor	400 A / V into 50 $\Omega$
Supply voltage	+15 V 2,2 A <u>optional:</u> + 0 .. 100 V 40W (external high voltage)
Max. power dissipation	40 W
Dimensions	88 x 44 x 20 mm
Weight	90 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 240-100 V3 is 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 7.5%\*\*.

Its typical application is driving pulsed laser diodes. 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. It eliminates the need for multiple peripheral supply units. A single 15 V DC-supply and a triggering signal are all which is required for operation.

Additionally, you can upgrade the LDP-V with the PLCS-21 controller to enable USB2.0-communication with a PC or with the external operating unit PLB-21.

**Optional Accessories:** PLCS-21  
PLB-21  
LDP-V-BOB  
LDP-V-KIT