

Rev. 1905

LDP-V 80-100 V3.3

Driver Module for pulsed Lasers



- 5 to 80 A output current
- < 6 ns rise time
- Pulse width control via SMC trigger input (12 ns to 10 µs)
- Rep. rates from single shot to 2 MHz
- Single +15 .. 24 V supply
- Current monitor and isolated monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...



M 20.0ns 10.0GS/s IT 4.0ps/pt A Ch1 \(\sigma -300mV \)

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

Technical Data*

Output current 5 .. 80 A Max. output voltage 100 V - int. high voltage 0 .. 100 V, 1 A, 15 W Rise time Typ. 4 ns, max. 6 ns Trigger delay Typ. 36 ns, max. 40 ns Min. pulse duration Max. pulse duration < 1 µs (@ 80 A)** Single shot to 2 MHz** Trigger range (refer to diagram with operating limits) Trigger input 5 V into 50 Ω via SMCjack Trigger output Galvanically isolated Rogowski coil Current monitor 40 A/V into 50 Ω Supply voltage 15 .. 24 V, 2.2 A Optional: 0 .. 100 V, 30 W (external high voltage) Max. power dissipation 25 W Dimensions in mm 75 x 44 x 20 Weight 76 g Operating temperature

Product Description

The LDP-V 80-100 is a small and inexpensive source for nanosecond pulses. The device is optimized for pulse repetition from single shot up to MHz repetition.

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 .. 24 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 USB 2.0 communication with a PC or the external operating unit PLB-21. Do not use PLCS-21 with higher supply voltage than

15 V. If you use the PLCS-21 with higher voltage than 15 V the device will be damaged.

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

-20 to +55 °C

* See manual for detailed information.

Optional Accessories: PLCS-21

PLB-21 LDP-V BOB LDP-V KIT

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