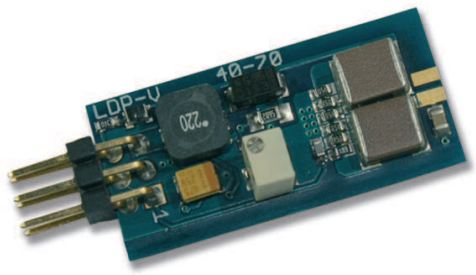
PicoLAS
FOCUSSING POWER TO THE POINT

Rev. 12.12

LDP-V 40-70

Ultra-compact Driver Module for Pulsed Lasers



- Ultra-compact OEM-module: 32x15mm
- 8 to 40 A output current
- < 7 ns rise time
- Pulse width control via trigger input (15 ns to 1 µs)
- Rep. rates from single shot to 100 kHz
- Single +15 V supply
- Current monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...

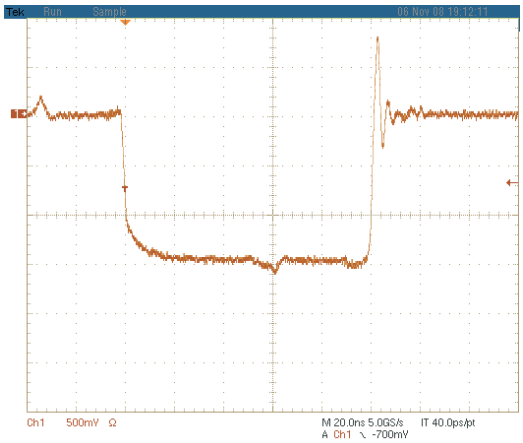


Figure: Current monitor output, scale: -10 A/Div

Technical Data:*

Output current	8 .. 40 A
Max. output voltage	70 V
- int. High voltage:	15 .. 70 V, 0.1 A, 3 W
Rise time	typ. 6 ns, max. 7 ns
Trigger delay	typ. 36 ns, max. 40 ns
Min. pulse duration	15 ns
Max. pulse duration	1 µs
Trigger range	single-shot to 100 kHz** (refer to diagram with operating limits)
Max. Duty factor	0.1 %
Trigger input	5 V into 50 Ω via SMC-jack
Current monitor	20 A / V into 50 Ω
Supply voltage	+ 15 V 0.2 A
Max. Power Dissipation	2 W
Dimensions	32 x 15 x 8 mm
Weight	4 g
Operating temperature	-20 to + 55 ° 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 40-70 is the smallest availiable source for nanosecond pulses. The device is optimized for size and functionallity, integrating a HV-DC source and the pulsing stage into only 4.8 cm². 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.
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.

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