





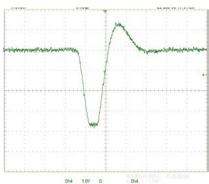
## LDP-AV 40-70

Rev. 1905

Ultra compact Driver Module for pulsed Lasers



- Ultra compact OEM module: 32 x 15 mm
- 8 to 40 A output current
- Fixed pulse duration
- Rep. rates from single shot to 100 kHz
- Single +15 V supply
- Current monitor
- Applications: LIDAR, Measurements, Ignition, Rangefinding, Biochemistry, ...



## **Product Description**

The LDP-AV 40-70 is the smallest available source for nanosecond pulses. The device is optimized for size and functionality, integrating a HV-DC source and the pulsing stage into only 4.8 cm<sup>2</sup>. Its typical application is driving pulsed laser diodes. Those can be mounted directly onto the LDP-AV, eliminating the need for strip lines. The diode must be electrically isolated from earth (chassis) ground.

Despite ist small size, the LDP-AV 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.

## Technical Data\*

| recinited Bata         |   |
|------------------------|---|
| Output current         | 8 40 A<br>Single LD   |
| Max. output voltage    | 15 70 V, 0.1 A, 3 W   |
| Int. high voltage      | Tun 36 no may 40 no   |
| Trigger delay          | Typ. 36 ns, max. 40 ns  |
| Pulse duration         | Fixed (standard is<br>N50 = 5 ns)                                       |
| Trigger range          | Single shot to 100 kHz**<br>(refer to diagram with<br>operating limits) |
| Max. duty factor       | 0.1 %   |
| Trigger input          | 5 V into 50 Ω   |
| Current monitor        | 20 A / V into 50 Ω  |
| Supply voltage         | +15 V 0.2 A   |
| Max. power dissipation | 2 W   |
| Dimensions in mm       | 32 x 15 x 8   |
| Weight                 | 4 g   |
| Operating temperature  | -20 to +55 °C   |
|                        |   |

<sup>\*</sup> Measured into a short instead of laser diode. Technical data is subject to

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change without further notice.

\*\* See manual for detailed information.