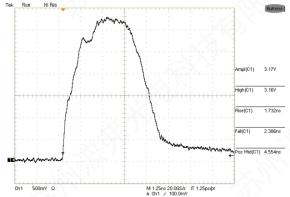


## LDP-AV 16N45-40

Rev. 2004

## LIDAR - Sequential controlled Laser Diode Driver





Typical optical output signal, driver designed for 4.5 ns pulses (time scaling 1.25 ns/div).

## **Product Description**

The LDP-AV 16N45-40 is a nanosecond driver especially designed for multi-channel LIDAR applications. It is a 16-channel high side driver which is capable for driving more than 640 A in total. The exact pulse duration can be adjusted by PicoLAS to your demands. The laser diode can be mounted directly on top of the driver. With the compact and small design the driver achieves a high power density. The output of 640 A\*\* is accomplished by 16 seperate channels. Each channel can be controlled independently and provides a maximal output current of up to 40 A.

- Ultra compact driver 40 x 24 mm<sup>2</sup>
- 16 independent channels
- 16 x 40 A or 1 x 640 A output current\*\*
- Fixed pulse duration e.g. 4.5 ns
- Rep. rates from single shot to 100 kHz
- Easy settings of output current via an external voltage
- Applications: LIDAR, Measurements,
   Ignition, Rangefinding, Biochemistry, ...
- Flexible platform to install and test laser diodes
- Advanced minimal inductance layout
- High power density

## **Technical Data**

Output current
Each channel
Flash
Pulse duration
Repetition rate
Max. duty cycle
Trigger input
Supply voltage
Charging voltage

Dimensions Weight Operating temperature 16 x 0 .. 40 A 1 x 640 A Fixed e.g. 4.5 ns Single shot to 100 kHz\*\* TBD +5 V into 50 Ω +5 V 0.05 A HV +0 .. 55 V / 0 .. 0.2 A

40 mm x 24 mm TBD 0 .. 55 °C

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<sup>\*</sup> Tested with OSRAM SPL PL90\_3 laser diode

<sup>\*\*</sup> See manual for detailed information