

LDP-AV X200

Driver Module for pulsed Lasers

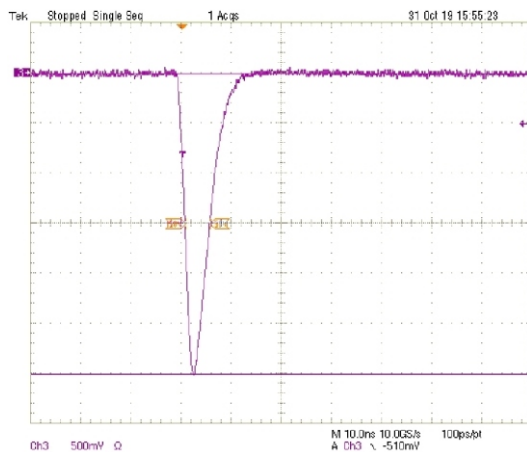
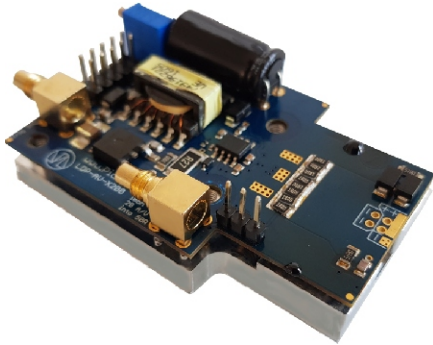


Figure: Current monitor output, scale: -10 A/Div

- Output current 6 .. 60 A¹ // 5 .. 50 A^{2,3}
- Pulse width 4 ns¹ // 5 ns² // 12 ns³ +/- 1 ns
- Rise time < 4 ns
- Applications: LIDAR, Measurements, Ignition, Ranging, Biochemistry, ...
- Internal high voltage of up to 200 V

Technical Data⁴

Output current	6 .. 60 A ¹ 5 .. 50 A ^{2,3}
Pulse duration	4 ns +/- 1 ns ¹ 5 ns +/- 1 ns ² 12 ns +/- 1 ns ³
Rise time	< 4 ns
Max. PRF at max. current	160 kHz ¹ 110 kHz ^{2,3}
Max. duty cycle	0.1 %
Throughput delay (from external trigger to output pulse)	TBD
Output current monitor into 50 Ohm	20 A/V
Trigger in (optional 50 Ohm SMC or CMOS into 500 Ohm)	30 .. 100 ns
Supply power	12 .. 24 V
Internal HV	20 .. 200 V
Minimum PRF	Single shot
Dimension in mm	63 x 42 x 22
Weight	63 g
Operating temperature	0 .. +55 °C

1 LDP-AV X200 1N04-60

2 LDP-AV X200 1N05-50

3 LDP-AV X200 1N12-50

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

Product Description

The LDP-AV series provides small and inexpensive sources for fixed picosecond and nanosecond pulses.

The LDP-AV X200 driver increases the internal high voltage to up to 200 V to support LD or similar emitters with high forward/compliance voltages. The laser diode can be mounted directly onto the LDP-AV driver, eliminating the need for strip lines

Apart from three standard versions, we also offer customized version as the driver concept allows an easy adaption of for example the pulse duration. Please contact us under the contact information below for your customized solution.

Ordering Options

- LDP-AV X200 1N04-60:
4 ns pulse width, 6 .. 60 A output current
- LDP-AV X200 1N05-50:
5 ns pulse width, 5 .. 50 A output current
- LDP-AV X200 1N12-50:
12 ns pulse width, 5 .. 50 A output current
- LDP-AV X200 1NXX-XX:
customized solution