



## **PCD-10kV Pockels Cell Driver – 10kV**

The PCD-10kV is EOSO's latest development in high voltage, high frequency, fast switching power supplies. The PCD-10kV module has been developed to safely and reliably provide the high voltage switching required to drive the latest Pockels Cells in high power laser applications.

The PCD-10kV is presented in a compact aluminium box that can be placed directly adjacent to your Pockels Cell to ensure the best possible performance. The high voltage driver leads can be specified to run from the back of the box (as illustrated over), or from the underside of the box, so the unit can be mounted directly above the Pockels Cell.

The switching voltages are easily adjusted via the multi-turn knobs on the front of the device, with the set voltage visible on the meter on the front panel. The meter can be switched to show either of the push/pull DC voltages.

The pulse width is also adjustable from the front panel. TTL trigger input and monitor output are provided via the rear panel. The unit has been designed to ensure safe operation, however care should always be taken when using devices operating with high voltages.



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## Technical Specifications

<b>Max. input power requirements:</b>	24 V / 3 A
<b>Typ. output quarter wave voltage range:</b>	<9000 V* see figure A
<b>Rise and fall time (20%-80%):</b>	<11 ns* see figure B
<b>RMS jitter:</b>	<500 ps
<b>Pulse width:</b>	80 ns – 2.3 $\mu$ s
<b>Maximum repetition rate:</b>	<2.4 kHz
<b>Load capacitance:</b>	$\leq$ 12 pF
<b>Size (l x h x d cm):</b>	35 x 12 x 25

\*Characteristics vary according to load and application.

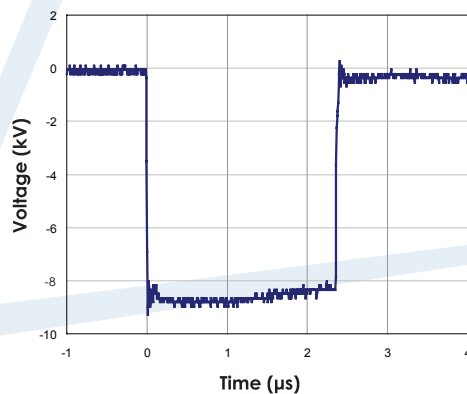


Figure A: Typical pulse

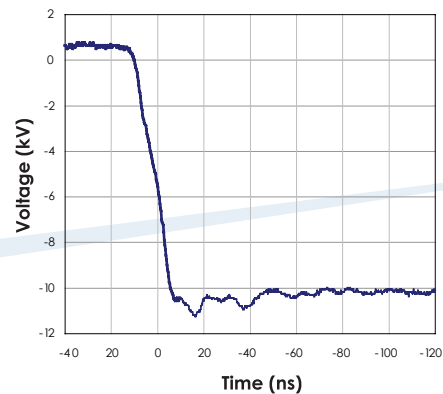


Figure B: Typical fall time

## Contact

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