## Features

- HV pulse amplitude up to 3.1 kV
- Repetition rate up to 6 MHz
- HV pulse duration down to $<1 \mathrm{~ns}$
- HV pulse duration extension using pulse regeneration technique


| CATALOGUE NUMBER OF DRIVER | $\begin{gathered} \text { 2DP-1000- } \\ 2.4-\mathrm{Al} \end{gathered}$ | $\begin{gathered} \text { 2DP-2000- } \\ 1.6-\mathrm{Al} \end{gathered}$ | DPB3-2500- <br> 3.1-Al | DPB3-3000-2.6-AI | $\begin{gathered} \text { 2DPB3-4000- } \\ 1.7-\mathrm{Al} \end{gathered}$ | $\begin{gathered} \text { 2DPB3-6000- } \\ 1.3-\mathrm{Al} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Maximal HV operating voltage | 2.4 kV | 1.6 kV | 3.1 kV | 2.6 kV | 1.7 kV | 1.3 kV |
| Maximal HV repetition rate | 1000 kHz | 2000 kHz | 2500 kHz | 3000 kHz | 4000 kHz | 6000 kHz |
| Pulse duration | $0-5000 \mathrm{~ns}$ |  | $100-5000 \mathrm{~ns}$ |  | 0-5000 ns |  |
| HV pulse rise time, typical | $<6.5 \mathrm{~ns}$ | $<6 \mathrm{~ns}$ | $<9.5 \mathrm{~ns}$ | $<8.5 \mathrm{~ns}$ | $<10.5$ ns | $<8.5 \mathrm{~ns}$ |
| HV fall rise time, typical | $<6.5$ ns | $<6 \mathrm{~ns}$ | $<9.5 \mathrm{~ns}$ | $<8.5$ ns | < 10.5 ns | $<8.5$ ns |
| Output polarity | Positive |  | Bipolar |  | Positive |  |
| HV power consumption | < 180 W | < 130 W | < 360 W | $<325$ W | < 360 W | $<330$ W |
| 24 V power consumption | < 14 W | < 18 W | < 10 W | < 10 W | $<6 \mathrm{~W}$ | < 10 W |
| Recommended HV power supply model | HV-200 or HVS100-2x120 |  | HV-2x200 |  | HV-400 |  |
| Dimensions | See Fig. 17 |  | See Fig. 18 |  |  |  |
| Cooling | Water |  |  |  |  |  |

Driver needs to be mounted on heatsink unless it is cooled by water. Driver's base plate temperature needs to be lower than $35^{\circ} \mathrm{C}$ in all regimes of operation. Power consumption for 6 pF load. Voltage or repetition rate derating is necessary if capacitance of your Pockels cell is higher. Contact vendor for details.


Fig. 17. Outline drawing of encased version 2DP series Pockels cell drivers


Fig. 18. Outline drawing of encased version 2DPB3/DPB3 series Pockels cell driver

