

# HIGH VOLTAGE PCKELS CELL DRIVERS – DPBx

## Features

- HV pulse amplitude up to 7.2 kV
- Repetition rate up to 1 MHz
- HV pulse duration extension using pulse regeneration technique
- OEM version available upon request



Encased version of DPB2 series Pockels cell driver

## Configuration samples of DPBx series drivers

CATALOGUE NUMBER OF DRIVER	DPB1-1000-3.0-AI	DPB1-300-4.6-AI	DPB1-250-5.2-AI	DPB2-1000-3.8-AI	DPB2-250-7.0-AI	DPB3-500-7.2-AI
Maximal HV operating voltage	3.0 kV	4.6 kV	5.2 kV	3.8 kV	7.0 kV	7.2 kV
Maximal HV repetition rate	1000 kHz	300 kHz	250 kHz	1000 kHz	250 kHz	500 kHz
Pulse duration	100 – 5000 ns					
HV pulse rise time, typical	<7.5 ns	<8 ns	<8.5 ns	<6 ns	<9.5 ns	<10 ns
HV fall rise time, typical	<7.5 ns	<8 ns	<8.5 ns	<6 ns	<9.5 ns	<10 ns
Output polarity	Bipolar					
HV power consumption	<120	<100 W	<100 W	<230 W	<200 W	<375 W
24 V power consumption	<9 W	<4 W	<3 W	<9 W	<9 W	<7 W
Recommended HV power supply model	PS2-60 or HVS100-2x60			HV-2x200		
Dimensions	See Fig. 13			See Fig. 14		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 °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.

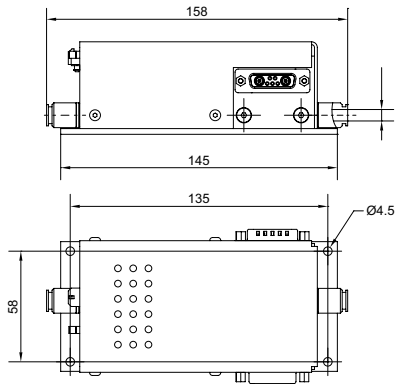


Fig. 13. Outline drawing of encased version DPB1 series Pockels cell drivers

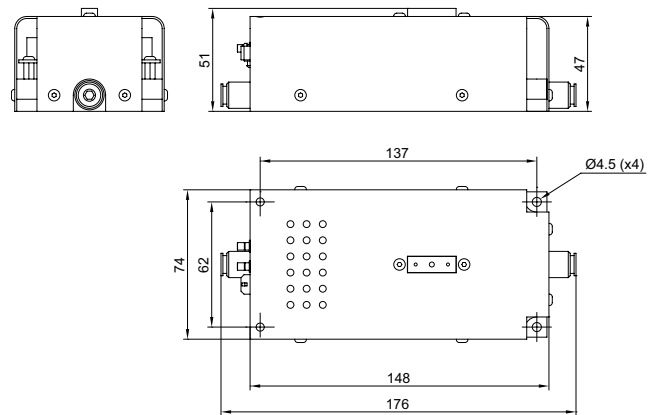


Fig. 14. Outline drawing of encased version DPB2 series Pockels cell drivers