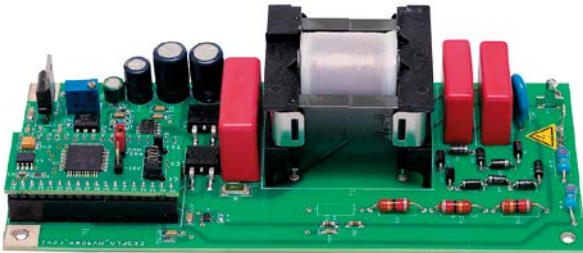


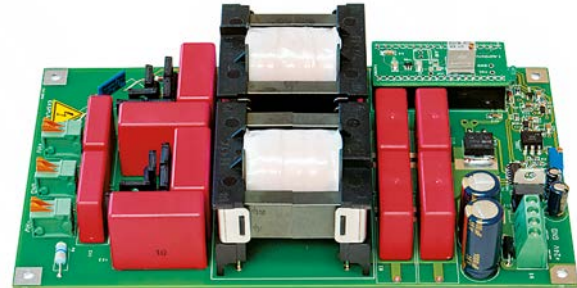
HV Power Supplies

PS

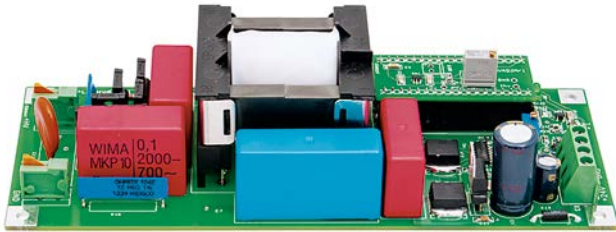
HIGH VOLTAGE POWER SUPPLY



PS-40 power supply



PS-120, PS2-60 power supply



PS-80 power supply

Power supply PS series is designed for powering Pockels cell driver with appropriate power and voltage requirement. Due to its performance and reliable design, PS is good choice for OEM customers. Table below shows general specifications of HV power supplies. Particularly "Maximal output high voltage" row gives reference of maximal achievable voltage for particular model limited by design. For specific driver this limitation is different. E.g. for the driver DPS-1000-1.8 voltage control limits are made from 0.8 kV to 1.8 kV typically.

Power supplies PS-120 and PS2-60 are equipped with overheat protection and LED indicator that stops operation and lights if ambient temperature exceeds 55 °C.

SPECIFICATIONS

CATALOGUE NUMBER	PS-5	PS-40	PS-80	PS-120	PS2-60
Maximal high voltage output options ¹⁾	1.8 kV 2.8 kV 4.0 kV 4.4 kV 5.0 kV	1.3 kV 1.8 kV 2.5 kV 3.6 kV 4.0 kV	1.8 kV 2.6 kV 3.1 kV 3.6 kV 4.0 kV 4.4 kV	1.8 kV 2.6 kV 3.1 kV 3.6 kV	±1.4 kV ±2.0 kV ±2.6 kV ±3.6 kV
Voltage control limits	-1 kV from maximal value				
Maximal output power at maximal output voltage ²⁾	5 W	40 W	80 W	120 W	2×60 W
Output voltage control options ³⁾	CAN interface ⁴⁾ , internal trimmer				
External powering	24 V DC, <15 W	24 V DC, <50 W	24 V DC, <90 W	24 V DC, <150 W	24 V DC, <150 W
Dimensions (L × W × H)	135 × 70 × 30 mm	160 × 70 × 40 mm	175 × 70 × 45 mm	175 × 110 × 45 mm	175 × 110 × 45 mm
Mounting holes Ø3.4 mm location	125 × 35 mm	150 × 60 mm	165 × 60 mm	165 × 100 mm	165 × 100 mm

¹⁾ Matching to Pockels cell driver voltage requirement is necessary by ordering.

²⁾ Maximal power is proportionally lower by tuning to lower HV output.

³⁾ Needs to be indicated by ordering.

⁴⁾ Requires USB-CAN converter for computer control that is sold separately. Voltage control limits from 40% U_{max} to U_{max} .

Output ripple is 0.5% typically at maximal power for all models of HV power supplies. External filter can be used to reduce that value if certain application requires smoother output. All Pockels cell drivers have integrated ripple filter and usually do not require additional one. Contact us for suggestions if your specific application needs lower ripple voltage.

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CELLSPOCKELS CELLS
DRIVERSHV POWER
SUPPLIESQ-SWITCHING
KITSULTRAFAST PULSE
PICKING SYSTEMSLASER DIODE
DRIVERSLASER SYNCHRONIZATION
MODULESCRYSTAL
OVENS