

LABORATORY TYPE HIGH VOLTAGE POWER SUPPLY – HVS100

Laboratory type HVS100 series high voltage power supply is especially designed for powering of drivers of Pockels cells. However, it can be used as general purpose high voltage power supply for other electronic devices and different applications in the laboratory. HVS100 features two voltage output channels – adjustable high voltage output channel and 24 V DC output channel.

Required high voltage value can be set and adjusted in the limits from 40% of maximal specified voltage to maximal specified voltage ($40\% U_{max}$ to U_{max}).

HVS100 has 2.4 inch OLED display for high voltage control and current consumption monitoring at the output channel.



Front panel of HVS100 power supply



Rear panel of HVS100 power supply

Specifications

CATALOGUE NUMBER	HVS100-2x60	HVS100-120	HVS100-5	HVS100-40	HVS100-80	HVS100-150
Maximal high voltage output options	± 1.4 kV ± 2.5 kV	1.8 kV 2.6 kV 3.1 kV 3.6 kV	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	1.8 kV 2.6 kV 3.1 kV 3.6 kV 4.0 kV
HVS100 Maximal output power at maximal output voltage	2x60 W	120 W	5 W	40 W	80 W	150 W
Voltage control limits	40% U_{max} to U_{max}					
Remaining power at the output of 24 V DC for external needs	55 W	55 W	190 W	150 W	100 W	Not available
Mains voltage / DC supply	90 to 264 V AC, 47 – 63 Hz					24 V DC
Dimensions (W x L x H)	230 x 245 x 53.5 mm					
Weight	2.5 kg					

Output ripple is 0.5% typically at maximal power for all models of HV power supplies.
Maximal power is proportionally lower by tuning to lower HV output.