HIGH VOLTAGE POWER SUPPLY – HV

Features

- Up to 400 W and 4 kV at the output
- Single polarity HV and bipolar HV-2x versions
- Computer control through CAN and RS232
- 48 V DC powering
- Auxiliary 24 V DC output for Pockels cell drivers

OEM type HV series power supply modules are designed to be used with high power and high repetition rate Pockels cell drivers that require >120 W power from HV source. To extend the versatility of possible applications we offer both single (positive) polarity and bipolar HV series power supplies.

HV power supplies can also be used as universal HV power supplies for different applications where up to 200 – 400 W high voltage source is required. HV series module provides maximal power (200 W or 400 W) at the indicated maximal rated voltage only. Therefore, the required rated voltage should be noted when ordering (possible options are listed in the specifications table).

The input of HV series power supply is 48 VDC. 24 VDC auxiliary output is a convenient feature to use the module as a single power source (high plus low voltage) with one of EKSMA Optics Pockels cell drivers. The output voltage can be tuned from zero to maximal value using an internal trimmer potentiometer, CAN or RS232 interfaces. Analog control (0 – 10 V) is possible under request.

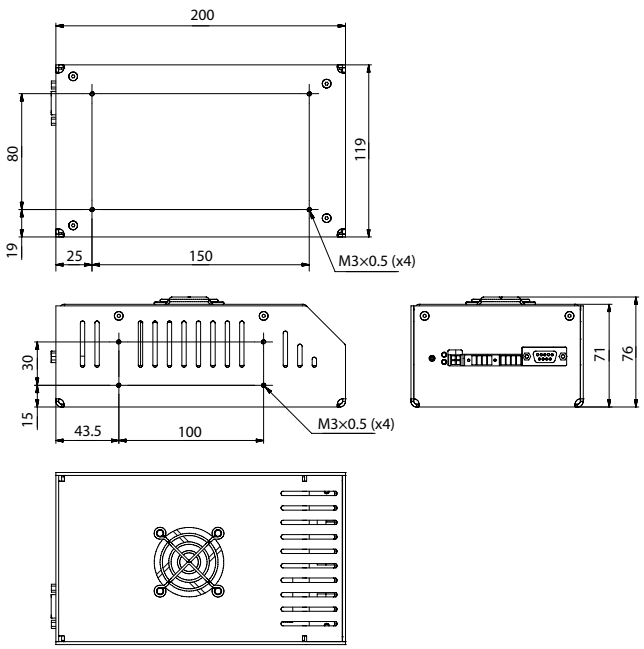
Front and rear view of HV power supply module

Specifications

MODEL	HV-200	HV-400	HV-2x200
Maximal HV options	1.8 kV 2.6 kV 3.6 kV 4.0 kV [1) 2)]		± 1.5 kV ± 2.0 kV ± 2.6 kV ± 3.6 kV
Maximal output power	200 W [1)]	400 W [2)]	2 × 200 W
Voltage control range	0 – U_{max}		
Auxiliary output	24 VDC, 1.2 A		
Controls	CAN, RS232, internal trimmer potentiometer		
Powering requirement	48 V, 4.5 A	48 V, 9 A	
Dimensions	200 × 118 × 75 mm		

[1)] Maximal output power of 4 kV HV-200 version is limited to 180 W.

[2)] Maximal output power of 4 kV HV-400 version is limited to 360 W.



Outline drawing of HV power supply module.