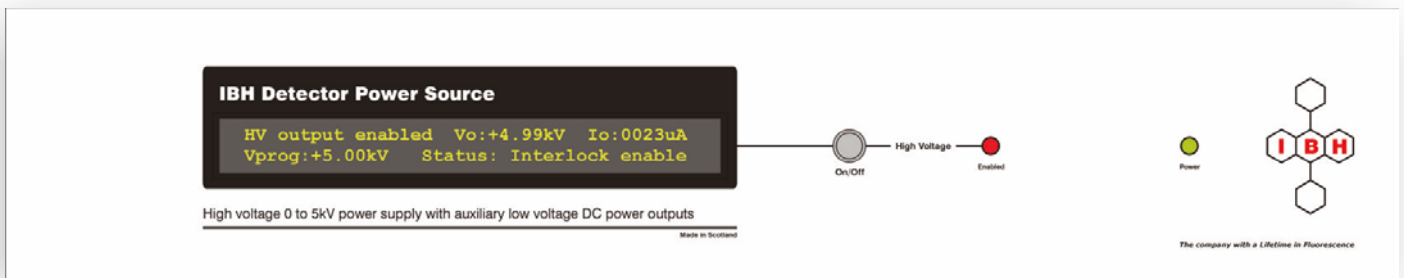




5000DPS

The ultra-stable high voltage power supply for photomultipliers



The 5000DPS is a versatile benchtop and rack-mountable power supply suitable for use with most photomultiplier detectors with an operating voltage between 0 and 5kV. Particularly suited for use with Microchannel Plate (MCP) photomultipliers, the 5000DPS is a key component in our 5000U-09 MCP-PMT detector upgrade package for the 5000-Series lifetime systems.

- ✓ Regulated high voltage (HV) power supply with 0 to 5kV output range
- ✓ Voltage and current monitoring of HV with LCD front panel display
- ✓ PC interface for convenient programming of HV set point*
- ✓ Stand-alone operation with single push button control
- ✓ Automatic ramping of HV protects photomultiplier (up/down)
- ✓ Interlock facility for HV circuit (optional)
- ✓ Two auxiliary DC outputs for use with external modules e.g. amplifiers

The 5000DPS is packaged in a high quality EMC-screened enclosure**

*Control program with source code and serial cable included.

**Brackets for rack mounting are optional and should be specified at time of order.

Specifications

High voltage range	0 to 5kV programmable in 0.05kV steps (2mA maximum)
High voltage polarity	Positive or negative - please specify when ordering
High voltage ripple	20mV peak to peak
High voltage stability	Typically 0.02% per 8 hours (after 1 hour warm-up)
Temperature co-efficient	25ppm / °C or better
Load regulation	Better than 10ppm
HV ramping rate	1kV / s nominal
High voltage connector	SHV
PC interface	RS-232. 9-pin interface cable included (length 1m). Simple ASCII control protocol is compatible with a wide variety of PC hardware and programming environments. Control program included with module requires Microsoft Windows operating system (Windows95 or later) and CD-ROM drive for installation. Demonstration source code supplied.
External interlock input	Closed circuit = enabled via rear panel socket (optional)
Auxiliary DC output 1	±15V @ ±200mA
Auxiliary DC output 2	±15V @ ±200mA
Rack mount height	2U, depth 450mm. Mounting brackets for rack are optional - please specify when ordering.
Power requirements	1A @ 220V or 2A @110V, IEC power inlet

Options and accessories

- Positive or negative HV polarity - specify at time of order (add suffix P or N)
- External interlock facility (order code DPS-01)
- Rack mounting brackets (order code DPS-02)
- Screened high voltage cable (order code DPS-03-2.0-SHV)
Standard length 2m, with SHV plug at both ends - alternative lengths and connector types available to special order.

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