

HVP14 power supply

Precision power supply for testing bare image intensifier tubes



Fig. 1. Photo of HVP power supply

BASIC INFORMATION:

The HVP14 power supply is a special high voltage power supply optimized for use in systems for testing bare image intensifier tubes. It is built as set of four HV power modules: HVP-1 to power photocathode circuit, HVP-2 to power MCP circuit, HVP-3 to power screen circuit, and HVP-4 – an option for some Gen3 tubes when voltages higher than 6000 V are needed.

The HVP14 power supply differ significantly from typical laboratory high voltage power supplies. The HVP14 power modules can be connected into a cascade. Flexible grounding (any output socket of any power supply can be grounded) is possible, too. Next, the voltage regulation ranges are optimized for testing bare image intensifier tubes.

SPECIFICATIONS

Parameter	Value
Output voltage range	HVP-1: 20 to 1000 V - optimized for photocathode HVP-2: 30 to 3000 V - optimized for MCP HVP-3: 30 to 6000 V - optimized for screen HVP-4: 30 to 6500 V - a spare channel to combine with channel 3 when voltages higher than 6000 V are needed
Max output current	200 μ A \rightarrow HVP1, 40 μ A \rightarrow HVP2 40 μ A \rightarrow HVP3 30 μ A \rightarrow HVP4
Type of regulation	manual
Ripple	<0.1 % pp
Temperature stability	<300ppm/K
Humidity	Up to 90% non-condensing
Working temperature	5°C to 40 °C
Storage temperature	-10°C to 65°C

*specifications are subject to change without prior notice

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